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EXTRACT

From an Act prescribing Rules for the Government of the State Library, passed March 8th, 1861.

Section 11. The Librarian shall cause to be kept a register of all books issued and returned; and all books taken by the members of the Legislature, or its officers, shall be returned at the close of the session. If any person injure or fail to return any book taken from the Library, he shall forfeit and pay to the Librarian, for the benefit of the Library, three times the value thereof: and before the Controller shall issue his warrant in favor of any member or officer of the Legislature, or of this State, for his per diem, allowance, or salary, he shall be satisfied that such member or officer has returned all books taken out of the Library by him, and has settled all accounts for injuring such books or otherwise.

Sec. 15. Books may be taken from the Library by the members of the Legislature and its officers during the session of the same, and at any time by the Governor and the officers of the Executive Department of this State who are required to keep their offices at the seat of government, the Justices of the Supreme Court, the Attorney-General, and the Trustees of the Library.

O. M. CLAYES, STATE PRINTER.

INV. 1894

Mining and Scientific Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

VOLUME VIII. SAN FRANCISCO, SATURDAY, JANUARY 2, 1864. NUMBER 1.

Description of a Mammoth Thigh Bone found Near Carson City, Nevada Territory.

BY THOS. M. LOGAN, M. D., OF SACRAMENTO.

In the number for August 30th, 1863, of the *Mining and Scientific Press*, I published an account explanatory of an engraving of a fossil molar-tooth of the Mastodon Giganteum, of Cuvier, found some twenty feet below the surface, on Indian Creek, one of the tributaries of the Cosumnes River, near Drytown, Amador county. The accompanying engraving, one-fourth in size, is taken from a photograph of the upper fragment of a femur of the same pachyderm. The specimen was found on the bank of Carson River, in a south-east direction from Carson City, N. T., some 5000 feet above sea level, embedded in a dark colored, chiefly porphyritic, detritus, the broken appearance of which would indicate a long drift and the violent action of water. It appears to be a portion of the head and neck of the left thigh bone, and is in a remarkable state of preservation:—the metamorphic changes having been so exact, atom for atom, that the cancellated, bony structure, which is perfectly preserved, gives the idea that the specimen is of a far more recent date than that of the newer Pleiocene, assigned to it by geologists.

THIGH BONE OF A MASTODON—5 3 4 inches in diameter.

The following measurements give the dimensions and proportions: Circumference at junction of condyloid epiphysis with neck, 17 inches; Transverse curvilinear of articulating surface, 10 inches; longest diameter of the hemisphere, 5¾ inches; diameter of neck, 4¼ inches; length of specimen, 8 inches.

The animals of this proboscidian tribe, which constitute a distinct genus, have been quite destroyed (no species of it being now alive) "by those changes of circumstances in the organic and inorganic world, which," according to Sir Charles Lyell, from whom we here quote, "are always in progress, and are capable, in the course of time, of greatly modifying the physical geography, climate and all other conditions on which the continuance upon the earth of any living being must depend."

The name is a compound of two Greek words, signifying mamillary teeth, referring to the principal character of the Mastodon as distinct from its elephantine cotemporary. They had the feet, tusks, trunk and many other details of conformation the same as the elephants; but their grinding teeth differed in having large, conical tubercles above the gum, which, by dentrition, were reduced to disks of various size, that represent sections of the tubercles: a conformation common to the Mastodon, Hippotamus, Hog, &c, and which has induced the erroneous idea that the first were carniverous. The great Mastodon probably haunted marshy places, feeding upon the roots of the vegetables common to such sites.

The remains of seven species have been discovered—three in Europe, two in South America, one in India and one in North America; and the further discovery of these fossils on the Pacific is interesting as showing the geographical range of the Mastodon to have been co-extensive with the continent, and not limited, as some have supposed, to the eastern slope of the Rocky Mountains.

So little was known up to the year 1712 of this colossal creature, that Dr. Mather described some of its bones, found at Albany on the Hudson river, as those of giants, and regarded the discovery as confirming the sacred record, "There were giants on the earth in those days." Afterwards similar remains were found abundantly along the course of the Ohio river, and the "Animal of the Ohio" became the name of the great unknown, until Cuvier originated its scientific denomination. Myriads of its bones occur along the rivers of the Osages, and indeed are commonly met with all over North America between the parallels of 33° and 34° N. latitude, from the northern Atlantic coast to the Rocky Mountains. Within these two limits the principal locality is the Big Bone Lick, Kentucky—one of those marshy valleys containing brackish water, locally termed "licks," on account of deer and other animals resorting to them. It is estimated that the bones of one hundred Mastodons, two hundred elephants, twenty buffaloes, two oxen and two deer have been carried from this marsh.

An almost perfect skeleton, armed with gigantic tusks, but made up, however, of the bones of different individuals, is in the Peale Museum, at Philadelphia, measuring eight feet in height and fifteen feet in length.

MINING REVIEW FOR 1863.

It has been truly said that California has astonished the world, and almost revolutionized commerce by the produce of her mines of the precious metals. The enormous production of the mines of the Pacific Coast, for the last fourteen years, has indeed been the marvel of the age. From 1849 to 1862 the sum of $750,000,000 in coin and bullion was shipped from the United States to foreign countries—chiefly to England, nearly all of which has been the product of this coast. Great as has been the reality of the past, the promise of the future is still more abundant.

During no one year since the first discovery of golden sands upon the banks of the American River, have our adventurous miners made such extensive and important developements as during that which has just drawn to a close. The amount of capital set in motion for mining purposes during the past year is without a parallel in the history of such enterprise, and the results which have attended this remarkable movement are almost beyond comprehension. It is only about four years since the discovery of silver in Washoe was first announced. For months thereafter, the believers in the value of the discovery were few beyond those who were personally cognizant thereof. At that time scarcely a business man or capitalist in San Francisco could be induced to take any kind of a venture in mining. The mines thus far had been developed by the persevering industry of our hardy miners, aided, so far as they were aided at all, almost exclusively by Eastern or foreign capital. Gradually the great truth has been brought home to San Francisco capitalists that there was money to be made by mining enterprise, and that if they would see this city grow and flourish, they must lend a hand to the development of our mineral wealth. By good fortune, the early investments in Washoe were productive of immense returns. An outlay of less than three millions of dollars upon the Comstock ledge has in three years created a property valuation of not less than thirty millions, besides returning in dividends a sum larger than the original outlay. It is no marvel that such unexampled success should create so great a furor in the public mind as to lead to many extravagancies, and to open the door for a large amount of illegitimate speculation. Whatever of an unfavorable nature has been the result of this *mania* upon the present industry and prosperity of our State, there can be no question but that the prospective benefits, both to our own State and the world at large, is important and advantageous in the highest degree.

EXTENT OF OUR MINERAL DEVELOPMENTS.

Previous to the commencement of the present year, outside of Virginia City and its immediate vicinity, we knew but little of the mineral value of the vast region between the Sierra Nevada and Rocky Mountains, beyond vague rumors gathered from the reports of a few daring adventurers who had pushed their explorations towards the interior of that Territory. Stimulated by these reports, however, dur-

ing the past year many thousands have gone out into those inhospitable regions, with pick and shovel and opened up to the mining world, according to well authenticated accounts, riches more wonderful than any which had previously been developed.

The hardy prospectors of California have rolled on over rugged hills and barren plains, unmindful of every species of danger which can beset the pioneer, prying into every nook in the mountains and delving deep into the hill sides, until they have connected their explorations with those of the British provinces on the north, and with Mexico on the south, while they have traveled eastward until they have met their brethren from the Mississippi valley, in the distant Rocky Mountain cañons, and along the head-waters of the Colorado at Pike's Peak.

From the little flat upon the forks of the American River, where Marshall picked up the first piece of California gold, American enterprise has gone on step by step, enlarging the boundaries of our mineral field, until we now behold it embracing a large portion of the Territories of Dakotah, Nebraska and Colorado, all of New Mexico, Arizonia, Utah, Nevada, California, Oregon and Washington Territory. These localities embrace a scope of country about 1,200 miles square, or an aggregate of nearly a million and a quarter of square miles. Besides the wealth in gold and silver, no other part of the world contains such immense, and so numerous or so rich mines of copper, quicksilver and iron, and we doubt not that it will yet be found fully equal to any other portion of the earth in the yield of coal.

The progressive development of this vast mineral region must soon build up an empire upon the Pacific, more vast, more wealthy and more powerful than any which the world has yet seen, and bound, as this empire will be to the Atlantic with a net work of iron rails and telegraphic wires, and situated as it is directly in the great highway between Europe and the teeming millions of Asia, who can form any adequate conception of the commercial importance which must soon be added to its mineral value!

LEGITIMATE MINING—STOCK OPERATIONS.

The *placers* of California, like all other placers where the precious metals are energetically sought after, are fast becoming exhausted; but legitimate mining, the business of searching for and developing ore-veins, has become the chief occupation of our people. In the prosecution of this business, labor, skill and capital are required. Heavy expenses are necessarily incurred in preliminary operations, and expensive machinery is needed for the reduction of the ore. Mining operations of this class cannot be carried on by individual enterprise as in the *placers*. Hence it is that we witness the present movement of capital, aggregating into joint stock operations. The number of these incorporations organized in California and Nevada Territory during the past year cannot be less than 4,000. Of course the capital which they represent, is as yet merely nominal. But enough has already been developed to give positive earnest of a most glorious harvest of the precious metals, so soon as our miners shall have tired of prospecting and turned their attention to a proper development of the ground already acquired.

The weekly receipts of bullion from the mines upon the Eastern Slope, is already reckoned by the *ton*, while the future of this yield is looming up into grand yearly totals which almost stagger our belief. That many and grevious losses will occur is a matter to be expected—one which never fails to accompany untried and experimental branches of business everywhere. Wild and reckless speculation is always attendant upon seasons of especial thrift in any department of business. Its very existence affords the best evidence that the basis upon which it operates is substantial and legitimate. The money expended in purchasing and opening the mines, in building mills, roads, etc., of course, has not yet come back to us in the shape of dividends; but it has created values far exceeding the original outlays. Upon the Comstock ledge alone, as we have already said, an outlay not to exceed $3,000,000, has created a value of not less than $30,000,000 in the mine alone, to say nothing of the additional millions it has created in the building up of Virginia City, Gold Hill, etc. Aside from this remarkable vein, there has evidently been a large gain in the aggregate, in the vast amount of bullion which has found its way to this city from "outside mines," and in the values created by the numerous towns and cities which have sprung up all through those vast mining regions—the legitimate and direct result of the investment of our capitalists in those mines.

PROPORTIONATE YIELD OF THE MINES—TREASURE SHIPMENTS.

Considering the vast values which we have been creating, during the past year, it is not necessary that we should show an increased shipment of treasure during that period, to prove that our miners have enjoyed a year of unusual prosperity. Yet the figures are largely in its favor. Compared with last year they stand as follows:—

Total shipments of Treasure for 1863	$45,724,436
Total shipments of Treasure for 1862	42,380,809
Excess for 1863	$3,343,627

That the creation of a large portion of the values on the Eastern Slope, during the past year, has been at the expense of our treasure shipments, must be evident to every person who will take into account the immense drain upon the gold producing labor which has been a necessary attendant upon the silver and copper developments during that period.

Never since the day on which California first unfolded her golden treasures, has she experienced such a general movement of her population from established centers of industry, to new and distant fields of labor, as has been witnessed during the past year. Every branch of her diversified industrial pursuits has been to a greater or less extent affected by the silver mania which seems to have reached its culminating point during the year. Probably not less than 20,000 miners, to say nothing of other classes, have crossed the Sierra Nevada, during the past year, in search of their fortunes among the silver mines of the Eastern Slope. Of course, such a general stampede, although it has resulted in vast additions to the prospective wealth of the community, has nevertheless operated most disastrously upon numerous local interests. Many of our interior towns have sadly retrograded during the period under review; their placer and quartz veins having been temporarily abandoned in the search for "feet" in other and distant regions. Such a general withdrawal of labor could not but affect disastrously the yield of the precious metals in many old localities, altho' happily that decrease has been more than made good by the increased yield of others. "This very restlessness," says a contemporary, in speaking of this remarkable movement, "which incites us to explore the mountains and deserts in search of new sources of wealth, has not been without its beneficial results. It has opened up to settlement and civilization regions of country that, under other circumstances, would have remained for many generations in their original condition. * * * It will eventually be the means of filling up whatever portion of the intervening range of country is available for the purposes of human life, with an industrious and enterprising population. Indeed it would seem as if Providence had lured us on in this way for the purpose of redeeming the wilderness. Although there may be much loss and suffering before we pass through the ordeal of the present excitement, the ultimate results will be greatly to our advantage."

THE COPPER MINING INTEREST.

The progress and development of the copper mining interest, during the past year, forms a most important and encouraging feature in our industrial pursuits. At the opening of the year, but little attention had been paid to this branch of mining, outside of a small section of country embracing a limited portion of Calaveras and Amador counties. The success and fame of the mines at Copperopolis began toward the close of 1862, to attract the attention of miners from various sections of the State. Many who visited those mines and examined the indications of the veins and the characteristics of the ore, became, at once, satisfied that they had seen the same indications and similar ore in other localities, but without any knowledge of their value at the time. The result was the development of several copper mines in various parts of the State—chief, perhaps, among the mines thus brought to notice, we may mention the "Well Lead," near the Empire Ranch, in Nevada county. The particulars of the discovery of the fact that the locators of this mine had long unwittingly been in possession of a valuable property, opened by them in sinking a *well* upon their premises, are too generally known to need a recapitulation in this connection. Commencing at the Keystone and Union mines in Copperopolis, the explorations of the past year have gradually traced out a distinct and well defined "copper belt," North and South, through the entire length of the State. This belt is from 8 to 15 miles in breadth, and passes along, embracing the entire extent of the foothills of the Sierra Nevada. Copper has also been found in the Coast Range in Del Norte county and in Mount Diablo.

Notwithstanding the large share of attention which has been attracted to this new field of mining, we apprehend that but a very imperfect idea of its actual present extent and importance is entertained even by well informed observers. Indeed, in the existing lack of statistical information, it is difficult for any one to obtain much information upon this point. In reviewing the progress of this interest for the past year, it is gratifying to observe that the flush of excitement which so generally pervaded the public mind a few months since, has of late given way to active and persistent labor in developing the mines and in bringing to the surface and shipping the most valuable portion of the ores. Work enough of this description has already been done, to establish, beyond doubt, a high value for quite a number of mines, and to afford reliable *data* for important calculations and estimates with regard to the future of this new branch of our mining industry.

Shipments of copper ore from this port since the first of January, 1863, must considerably exceed 5,000 tons, with an aggregate value of not far from three quarters of a million of dollars. The ore thus shipped, it should be borne in mind, is but a small part of that which has been raised to the surface. It is probably a safe calculation to value the copper ore now upon the surface at the various mines throughout the State, and in store in this city and at other places, at a million of dollars. The number of mines now shipping, or in a condition to ship may be set down at about twenty; in addition to which there are hundreds in progress of development, a large portion of which will, within another year, become valuable shipping mines.

CONNECTED. — San Francisco and Santa Clara were united in iron bonds on Tuesday last, by the completion of the San Jose Railroad to the latter point. Trains are to run regularly, and but a few days will elapse before San Jose will be the terminus.

NEW ALMADEN.—It is reported at San Jose that gold and silver ore has been found upon the claims of the North Uvas Quicksilver company, located near the New Almaden mine.

THE GOLD HILL NEWS comes to us much enlarged and improved. This daily is one of our most valued exchanges.

THE TERRITORIAL ENTERPRISE now publishes a weekly issue. The people of Virginia city and vicinity have long needed a publication of this kind.

PRACTICAL EDUCATION.

It is an idea, too generally prevalent, that after a boy has passed through a primary, or perhaps an academical course of education, and elected to follow some mechanical pursuit instead of a profession, he may, with impunity throw aside his text books, and consider his education completed. Nothing could be more erroneous. The object of primary intellectual education, properly considered, is simply to furnish a young man with tools and so train him in their use as to enable him to employ them for the extraction of knowledge from the ever shifting succession of the ordinary phenomena of life and nature, which are constantly passing before him. To send him out from the parental roof without these tools, is like turning him into the world naked and defenceless. A boy is taught to "read, write and cypher" in order that he may thereby have access to infinitely wider stores of knowledge, which by simple oral intercourse only, would be a sealed book to him The primary branches of education therefore are but intellectual tools; and it would be none the less foolish, for the miner to throw away the implements of his labor. and endeavor to follow his calling without them, than for a young man just from school, to consider his education finished, and resolve thereafter to spend his leisure hours in amusement, or in perusing the light and trifling literature (so called) which comprises so large a portion of most of our libraries, and to which so many of our most widely circulated periodicals are chiefly devoted.

Young men of the present day enjoy rare privileges over those which were attainable even in the most palmy days of Greece and Rome. Eighteen hundred years ago a Greek or Roman youth, if the son of a prominent citizen, was taught about the same things that are now taught in our common schools—though, by a system of oral instruction, much inferior to the system which the invention of printing has enabled us to employ at the present day. But after that young man left the academic *grove* (for the school house is also a modern institution) fully supplied with intellectual tools, these tools were comparatively useless to him for the lack of a field in which to employ them. The physical sciences which are open to the youth of the present, day, were then almost unknown. The battle field and the forum, were then the only attractions outside of the most common walks of life. It is to this fact—this lack of *mental employment* for the grown up masses of those days, that we are to attribute the marked difference between the civilization of the the early centuries of the christian era, and that of the nineteenth century.

Modern civilization rests mainly upon physical science. It is the prodigious development of the physical sciences within the last two centuries which has effected such a marked distinction between the intellectual habits and tone of thought of the present day and that of the earlier ages of Christianity. It is that which is so rapidly wrestling the rule of the world from the brute force of the few who imagined themselves "born to rule" and placing it in the intelligence and moral energy of the masses. "I believe" says a learned English writer, "that the greatest intellectual revolution mankind has yet seen is now slowly taking place by her agency, [the agency of physical science]. She is teaching the world that the ultimate court of appeal is observation and experiment, and not authority; she is teaching it to estimate the value of evidence; she is creating a firm and living faith in the existence of immutable moral and physical laws, perfect obedience to which is the highest possible aim of an intelligent being."

The merest schoolboy daily encounters difficulties which nothing but a knowledge of physical science can overcome. The young man, when he goes out into the world, meets them at every turn. How necessary then that our young men should be prepared for these emergencies. They cannot be so prepared to any extent either in the primary or high school. These merely furnish the tools with which they must work their way up the hill of science guided by the experience of others and their own good judgment. This acquisition of science by the people—the laboring classes, more particularly, is social progress. A knowledge of the laws of mechanics, (the best school for acquiring which is in the use of books, in connection with daily employment in the shop, and their application is calculated to make labor more valuable by making it more intelligent. Time was, and that but recently, when artizans and laborers looked upon the introduction of machinery as injurious to their interests. Education and an intelligent view of the productive forces of modern times, has effectually banished all such prejudices.

The *Press*, has been the great agent of modern times in elevating the working man to his proper standing and importance in the community. If properly conducted it might be of still more service to him, in affording that class of popular instruction which he so much needs. It will be the chief aim of this paper to afford such instruction.

"Wherever." says Mr. Whitworth, before the New York Industrial Exhibition, "Wherever education and an unrestricted press are allowed full scope to exercise their united influence, progress and improvement are the certain results, and among the many benefits which arise from their joint co-operation, may be ranked most prominently, the value which they teach men to place upon intelligent contrivance; and the readiness with which they cause new improvements to be received. The impulse which they unavoidably give to the inventive spirit is gradually emancipating man from the rude forms of labor, and making what were regarded as the luxuries of one age to be looked upon in the next as the ordinary and necessary conditions of human existence."

If the highest education of our Universities is essential to our national and social progress, the *lower* education of our middle classes and working men is more so. If in the one case, a finished education is necessary to give an intelligent comprehension of the progress of the human intellect, so, on the other hand, a practical education is needed to give precission and intelligence to the efforts of those whose success in the common avocations of life is dependent on the skillful adaptation of the general laws and properties of the material world.

LEGISLATIVE AID.

No stronger argument in favor of the establishment of a Mining School, or some organization of practical miners on the plan alluded to in another column, need be urged than the universally admitted fact that millions of dollars are annually allowed to escape from our quartz mills, into the gulches and creeks upon which they are located, and pass to waste in their sands. Thousands of dollars are appropriated every year by our Legislature, in aid of agricultural improvements; but, we believe, with the exception of one session, there has never been a dollar appropriated in aid of mining improvements, with the view of saving this immense waste; and yet the losses to the community, by lack of skill on the part of our gold quartz workers, or the want of improved machinery, has wrought a greater pecuniary damage to the State, in any one year, than the deficiency in such knowledge and machinery in agriculture has in the entire decade. This important fact should be borne in mind by our present Legislature. It should be made a matter of discussion in that body, and such consideration given to it as its importance demands. We do not wish to see one dollar of the customary appropriation withdrawn from the agricultural interest, but we would urge the necessity of more attention being devoted by our Legislators, to the great interest of mining, to which all other industrial pursuits in the State, are but of secondary importance, and upon the success of which all others mainly depend. We would call the especial attention of the mining members to this matter. In passing, we would remark, that notwithstanding this almost inexcusable lack of legislative encouragement, the miners of California have not been idle in the direction of mining improvements, but have added more to human knowledge in that direction, than all the world besides for the past century! California miners have ever been proverbial for their ingenuity and intelligence, and thousands, perhaps we might say millions, of dollars have been expended by them in experimental improvements. More has been expended from private purses, in that way, in California, within the last ten years, than has been expended in the entire Union besides, in agricultural experiments. We trust the present Legislature will do the mining interest justice in this and every other particular. We have faith that it will.

[Written for the Mining and Scientific Press.]

Taxing the Mines.

Editor Mining Press:—Your valuable journal, in the number for December 21st, contains an editorial on the subject of "taxing the mines" which agrees with the general opinion of our citizens, that such a proceeding would be both impolitic and impracticable.

There is however a mode by which the U. S. Government could derive a handsome income from the products of our mines, and which would be very acceptable and advantageous to the interests of our people. Although not new in political economy, we have not seen it suggested by any writer on the subject of the taxation question. It has been long in use in other countries successfully. This plan is to have U. S. assay offices established in the principal mining towns along the coast, to which the miners could bring their crude bullion, have it assayed and and stamped with its value, *certified by the Government seal*, for which the Government could charge a percentage, which would be less than that charged by private assayers, and still sufficient to produce a large income. This the miners would gain both in expense of assay, and in having the Government stamp, by which their bullion would become immediately a medium of exchange nearly as good as coin, and capable of shipment abroad as such.

This would not interfere materially with the interests of private assayers who will have plenty of work for years in assaying ores, and reducing them. Offering this for the interest of all parties, we remain, Yours truly,

Bullion.

The Gold Mines of New Zealand.—Notwithstanding the continued progress of the War of Rebellion in New Zealand, the gold mines of that island are improving in the quantity of yield. For the fortnight ending Saturday, Sept. 26th, $160,000 had been brought in by the Escort. Seven hundred emigrants had just arrived at the mines in two ships, one from London and the other from Glasgow.

The government had just built a small Ironclad much after the Monitor fashion, with which to drive the rebels from some of their strongholds on the rivers.

Florence Sewing Machine.—This new and elegant candidate for favor among the sewing fraternity of this State, is an ingenious production and finished, specimen of mechanism, such as we always look upon with favor. As Mr. Hill, the agent for this Coast, aptly remarks, "it must be seen to be appreciated." From viewing its operations, we can say the Florence readily performs the service claimed for it with singular ease and grace.

Communications.

[Written for the Mining and Scientific Press.]

Mining and Metallurgical Journals.

Notice of the Principal Periodicals Devoted to Mining and Metallurgy Published Throughout the World.

The interests of the miner and metallurgist are thoroughly cared for by all European governments, and everything connected with these departments of practical science, in most of the states of the Continent, is carefully watched over by men of long experience and extensive acquirements; therefore nearly all these States publish official or government mining journals, or periodicals devoted to this branch and subjects allied with it.

The *Annales des Mines* is the most important mining periodical in the world. It is the organ of the Imperial Corps of Mines and of Roads and Bridges, and is published at Paris, in six octavo numbers per year, making two stout volumes, filled with original contributions on all subjects connected with mining and metallurgy; together with a good deal of matter relating to steam engines, locomotives and railroads. These papers are almost always from the pens of regularly educated mining engineers; they are not intended to be popular, but are rather for the use of those who have received a thorough mathematical and scientific training. The *Annales des Mines* has been in regular course of publication for more than fifty years, and the series is by far the most important book a mining engineer can have in his library.

There is also a more popular mining periodical published in Paris, called the *Journal des Mines*, which was established by private parties and which contains reports of sales of mining stocks and other particulars of a more purely commercial and less scientific character.

The *Revue Universelle des Mines*, published every two months at Liege, and edited by De. Cuyper, an eminent mining engineer, is the organ of the mining interests of that hussy little kingdom, Belgium; it has many valuable articles on mining and metallurgy.

Several of the German States support one or more periodicals devoted to mining. The *Zeitschrift fur das Berg Hutten und Salinenwesen* is the Prussian official mining journal; it is published quarterly, in quarto form, at Berlin, and has been established for about ten years. It is particularly devoted to the interests of Prussian mining and smelting, and has the fullest and completest statistics of these branches as developed in that country, with elaborate papers on the improvements in mining machinery and smelting processes, which have been introduced into the mines and furnaces, and critical notices of all works published in other countries on these subjects.

For the last two years it has been accompanied by a supplement, giving full description and working drawings of the most important new Prussian mining and smelting establishments. Both of these publications are official, and of course thoroughly reliable and complete in everything connected with mining in the Prussian Kingdom.

The organ of the Saxon Government mining interests is a yearly octavo publication called the "*Jahrbuch fur den Berg and Huttenmann*," in which the most minute statistics are of all the Government mines and furnaces. But the principal Saxon mining publication is the well known "*Berg und Huttenmannische Zeitung*," published weekly in quarto form at Freiberg and Leipzig. It is edited by Bornemann & Kerl, the last named of whom is a Professor in the Mining School of Clausthal, and who is well known by his excellent work on Metallurgy. This periodical contains many valuable articles on the Mines of all parts of the world, most of which are written by former pupils of the Freiberg Mining School; it has been in course of publication for the last twenty-one years.

The "*Berggeist*" is a small but valuable mining paper, published twice a week, in small quarto form, at Cologne. It is especially devoted to the mining interests of Rhenish Prussia.

There is also a weekly mining paper published at Vienna, called the "*Oesterreichische Zeitschrift fur Berg-und Huttenwesen*;" this is particularly devoted to the development of the very important mining interests of the Austrian Empire.

A yearly publication at Vienna, with text in quarto and folio plates, edited by a high mining official and called "*Erfahrungen berg im und hutten-mannischen Maschinen, Bau und aufbereitungs-wesen*," giving the results of all trials of new mining, smelting and ore dressing machinery made under the superintendence of the Austrian Government, with full working drawings of the same. It is an admirable publication, since Austria is an important mining State, and one—in which many new processes have been thoroughly examined and valuable results obtained.

There is also a quarterly journal published at Bonn and devoted exclusively to mining law, it is called the "*Zeitschrift fur Bergrecht*."

The number of journals and periodicals devoted to mining, which are published in the English language is but small.

The "*Mining Journal*," a large folio, published at London, contains some valuable matter, especially of a commercial character; but has little scientific value. Is is especially intended for those who buy and sell English mining stocks and as a register of the immense transactions which are carried on in that greatest of all mining countries.

The want which has been so long felt in Great Britain of a more thorough mining periodical has been lately to a considerable extent supplied by the "*Mining and Smelting Magazine*" published monthly at London, in octavo form. This magazine was commenced in 1862, and has thus far been well sustained.

The British government publishes yearly the complete statistics of the mines and furnaces, as collected and arranged by Mr. Hunt, Keeper of Mining Records. Singular as it may seem, it is only within a few years that this has been done: before Mr. Hunt took up this department, our knowledge of the yield of the mines in England was exceedingly imperfect.

Several periodicals devoted to mining and metallurgy have been started in the United States; but there is not one now published, except the *Mining and Scientific Press* of San Francisco. The *Mining Magazine*, published at New York, first as a monthly and afterwards as a quarterly, died a lingering death some two years ago. San Francisco is certainly, if any where on this continent, the place where a mining periodical should be well supported; for nowhere are the mining interests greater, in proportion to the wealth of the community than here. And furthermore, there should be here a library, where complete sets of all the mining periodicals published throughout the world should be accessible to the public; for miners and smelters are too much in the dark as to what is doing in these departments in other countries.

J. D. W.

A TRIP TO THE MINES.

We left San Francisco at 4 o'clock P M. for Stockton, in one of the densest fogs that ever enveloped the Bay, but Capt. Conklin can navigate the Camelia between the Two Brothers in fog and night "as dark as Erebus," and not tread on their coat tails. We arrived at Stockton at 10½ A. M the next morning. All of the stages had left and we must wait two days before proceeding on our journey. After dining from an original bill of fare at the Webber House, kept by Messrs. Dillon & Gross, we took a survey of the town from the top of the Court House, which is much higher than the Jail or Gallows. Stockton appears like a vast carpet, of some grand design spread out nearly as far as the eye can reach, with its old oaks fixed almost as regularly as an orchardist would plant his appletrees. It must be very beautiful in early summer, but the frosts have now given it a sombre and brown appearance.

GLOBE FOUNDRY.

This Foundry and Machine Shop is owned by Messrs. Briggs & Keep. They employ about twenty-five hands, and all kinds of mill and mining machinery are built by them in a very thorough and substantial manner. They are now engaged upon and have nearly completed a Quartz Mill and hoisting machinery for the Spring Valley Gold Mining Company, Calaveras County. This mill, when finished, will recommend itself. The proprietors think that they can make a saving of freight from this city to Stockton for all of their patrons.

OVER THE PLAINS.

Up at 5 o'clock in the morning, carry your baggage to the Stage Office, take your seat, when crack goes the driver's whip and off we go; but stop! We have one more passenger, only *one*, which proves to be a woman with two children; children must have room, and room is found, when on we go. In four miles we stop to water the horses and take an inventory; find nine men, one woman, two small children, one bottle of Squarza's coffee punch and one small dog.

Breakfast at the Twelve Mile House; fresh horses are added and on we go again. Nothing now presents itself to the eye of the traveler but vast pampas or plains, with here and there a few emaciated cattle, lazily and feebly crawling along, while clamorous crows are perched upon some neighboring bough as if calling to them to give it up and die, and lazily soaring in mid air are turkey buzzards awaiting too surely for their expectant prey. Ought not this great evil of leaving cattle upon the plains to die, and so near civilization, to be remedied.

LAST CHANCE.

This was a newly built house, out on the Plains, with a sign over the door with the words "Last Chance" upon it. What could it mean? Were we in danger? or was it the last chance to drink, eat, smoke or sleep? Oh no; out comes the proprietor, a man standing six feet in his stockings, good looking and about forty years old. He tells the driver that he wants a housekeeper; none of your city belles, who promenade Montgomery street, smelling of perfume and insolence, but one who can wash, bake, iron, tend bar and feed the chickens; one who will sing when the old tea kettle is humming on the stove. This, then, accounted for the sign—the "Last Chance" to get married! The driver made an arrangement with him to call when he should return and take his order. Farther on we came to oak openings, near the Stanislaus river. Swine abound here, feeding upon the mast which falls from the oaks (and piggy here has the advantage over the poor cattle; but beside almost every porker stands a jackdaw, like some solitary sentinel in white shoulder straps. Whether 'tis his evil genius still urging him to cast himself into the sea, or whether to remind him of this bold, brave deed once committed, I know not, but piggy roots on, intent upon mast and seemingly unconcerned as to whether his companion is beast or angel, bird or devil.

HORNITOS,

Or place of many ovens, is built in the form of a hollow square; its public buildings are not large, but very numerous. In the center of the square stands the town pump; but the water is not drawn often enough to free it from the rust of iron which comes up from the pump. Here are found all classes—the grey Southerner and the cool New Englander, gentlemen from England and Ireland, the Asiatic and the Mongolian, the Mexican and his Señora.

HORNITOS MILL.

Nestling in the sunlight, in a beautiful valley, about one and a half miles from the village, is the new mill, built by the Hornitos Mining Company. The main building is 48 by 52 feet. The engine is a 14-inch cylinder and 30-inch stroke, and is 60-horse power. The boiler is 24 feet long, with five 8-inch flues. The

Bryan batteires are used, consisting of 20 stamps, each stamp so arranged that it can be worked independent of the other. Each battery is lined with copper and acts as an amalgamator in itself, yet amalgamators are used which are upon the shaking table principle, but new in conception, and are said to possess advantages over old inventions. The boiler and amalgamators are supplied with water from two wells, by a jack-head force pump which lifts the water into a large tank upon the top of the building. The rock is hoisted upon an incline railway to the second story, where it is crushed by a stone breaker, before it enters the battery, for further reduction.

This mill was built by Messrs. Goddard & Co., at the Pacific Iron Works of this city, under the quick and skillful eye of Mr. S. H. Lea, engineer. Every piece of this mill fits like smooth Mosaic, and so perfect are all of its combinations that standing upon the beams which support the main shaft, when the mill is in motion, scarcely a jar or tremble is perceptible.

THE MINE.

The mine is situated about 300 yards from the mill and is one vast pile of quartz, nearly six thousand tons of which is now ready for crushing. On the vein several shafts or inclines have been sunk, which show very rich gold bearing quartz. The hill sides are covered with an abundance of live oak which is used by the mill for steam. Fourteen new tenement houses have been erected, which gives the place quite the air of a neat village where scandal and bedbugs ought not to come. The whole is under the superintendence of Mr. L. A. Reux, and to him and others, (whose names we cannot pronounce, owing to our slight knowledge of French,) we desire to express our thanks for the attention paid to us as we as the valuable specimens presented to us for our cabinet.

COPPER MINES.

The Buttes—(not the Cockney's bunts!) This vein is located about four miles from Hornitos in a southerly direction, and contains 5000 feet. They have sunk a shaft 80 feet and are now drifting for the vein or lode. (?) They have been at work about four months. Croppings very strong, (iron cap,) but they will have to sink much deeper for copper than what they now anticipate, and at considerable expense; but owners work here and without kid gloves on, and if owners can't work a mine cheap who can?

THE GUYASCUTUS

This mine was named by the villagers of Hornitos, and as the story goes derived its name from the operations of two smarties in a town in some one of the Western States. The sharpers advertised to exhibit in the town upon a certain night, two animals of a new species called the guyascutus and the prock. The guyascutus could walk upon the steepest roofs of houses, one fore leg and one hind leg having been formed shorter than their opposites, and the two could perform many wonderful feats. The villagers assembled upon the evening advertised and paid their admission fee. When the house had become quite full, the would be lecturer came before the audience, apparently in a terrible fright, shouting to the astonished people who were gathered, that the guyascutus had become loose and had eaten up the prock, and would destroy them also. The villagers, terror stricken, fled and left their houses to be plundered by the sharpers.

This mine has a shaft down about 70 feet. The company are not sinking upon the lead, owing to a heavy bed of muadic which largely impregnates the vein. We hope that the expenses of working the Guyascutus, will not eat the enterprising villagers out of house and home; yet great depth may have to be arrived at before copper ore in any quantity will be taken out.

ANOTHER NEW MINING DISTRICT, called "Mountain Wells," has been laid out about eighty miles east of Virginia City. A new city has also been started there, called La Platta.

Silver Mountain District.

(CONTINUED.)

In the Pennsylvania Cañon, only a short distance from Silver Mountain City, are several prominent claims. The Chrysopholis Company have a tunnel extending 110 feet, but have not yet struck their ledge. The Metropolitan Company have tunneled some 60 feet and will strike their ledge after about 50 feet more work. They will undoubtedly find it to yield richly, as the croppings show most excellent indications. Above these claims are the Pennsylvania Company, who have struck their ledge and are about taking out good pay ores. Following up the Middle Fork of Silver Creek, and about 1½ miles from the town, is a section which bids fair to be equal, if not superior, to any other ground in the district. Very little attention was paid to this section, until this season, from the fact that the prospectors were pre-engaged with work in the immediate vicinity of the town. Up this branch are located the Francis Emma Wright, Lone Star, Young America, Apollo, Marlow, Mary Ann, Occidental, Dictator and Star of Hope. The principal claim on this stream is the Apollo which, was taken up in May last and has been sufficiently worked to show fine pay rock. The ledge has been cleared as far as the tunnel has been worked, some 90 feet, and improves in richness as the work progresses. It bids fair, in fact, to become one of the best claims in the district. Upon the claim is a magnificent mill site with abundance of water to run a large mill. Next adjoining the Apollo, is the Mayflower Company, and on the opposite side is the Mountain Oak claim. Above these, are the Casteel, Frowning Beauty, Crinoline, Marshall, and Rough and Ready, all of which are being thoroughly prospected. The Crinoline Co. have sunk a shaft 50 feet along side their ledge and drifted through it. They find excellent rock which shows virgin silver to the naked eye.

THE RAYMOND DISTRICT

Was formed in June last, a number of ledges having been discovered at that time. It is situated four miles from Silver Mountain and an equal distance from Markleyville. The claims are mostly taken up and owned by parties from Silver Mountain. The principal ledges in this district are the Sacramento, Wyoming, St. Lawrence, Great Eastern, Summit, Brown, Norman and many others. The Sacramento have sunk 65 feet on their ledge and are now getting out pay rock. The preponderating metal found in this district is silver, although in many instances gold is extracted in considerable quantity. In Silver Mountain, about 400 claims have been located, 100 of which will average some 100 feet tunneling each.

THE ASPECT OF THE COUNTRY

Is mountainous and it is heavily wooded. As before remarked, the supply of timber for lumber and fuel is amply sufficient for all wants and may in fact be said to be inexhaustible. The timber is chiefly mountain pine of large size and very free from knots. The price of wood for fuel is about $2 per cord.

Silver Creek, running through Silver Mountain and at a distance of three miles from Carson River, has, in its course, a fall of about 1000 feet, affording sufficient power to run mills of the largest capacity. The stream is fed from never failing mountain springs, augmented by the snows melting on the mountains during the summer season.

THE CLIMATE

From May to November is delightful, the days being agreeably warm, with a gentle breeze blowing from the mountains, which makes this a very desirable place of residence during the summer months. The nights are cool but comfortable. Snow generally commences to fall about the middle of November, but in no great quantities before the first of January. It is rarely that the depth of snow exceeds three feet in the town. The altitude of Silver Mountain is some 7000 feet; that of the highest peak west of the town about 10,000.

The great drawback to the developments and improvements in the mines of this prolific district has been chiefly owing to the scarcity of capital and also a fear that if the mines were controlled by men of means, they would be frozen out, after all their experience and labor. Two years trial have demonstrated the fact that silver mines cannot be worked to any advantage without considerable outlay, and holders of good claims are now willing to sell on reasonable terms. The coming season will be a prosperous one for this district. Capitalists are beginning to appreciate the immense source of the wealth in the mines. The extent of the claims, the abundance of wood and water, the facilities of transportation and the healthy climate, are all incentives of immigration and cannot fail to draw a large proportion of our mining population to this district during the next season.

ESMERALDA.—The Bolivia Company, on Aurora Hill, are now down about seventy feet, and recently let another contract to sink still deeper on the ledge. There are over one hundred members in this company, and the claim is worked steadily. The ledge is very wide, and the work assays well. Operations continue vigorously as ever on the Antelope, Utah, and Iowa, all claims well known and of established reputation. The Davenport, adjoining the Comstock, is working, and their prospects are represented as decidedly good. The Cortez, notwithstanding their trouble with the Utah, continue to work steadily, and get out as rich rock as can be found in the Esmeralda District. The Bamboo Company, according to the *Times*, has recently assumed quite a business look. It is the intention of the company, henceforth, to work this mine vigorously. The superintendent expects that within sixty days he will be able to raise from 300 to 600 tons of good pay rock monthly—such rock as has heretofore paid $57 a ton and upwards. This mine is mainly in few hands. There is a large amount of ore now on the ground which is now being crushed.

VALUABLE LECTURES.— A course of lectures is to be delivered this Winter, before the Mechanic's Institute of this city; the proceeds of which are to be applied towards paying off the indebtedness of the Institute. Professors Whitney and Brewer, of the State Geological Society, and Rev. T. Starr King have each volunteered their services for one lecture each. It is to be hoped that the programme may be fully carried out, and that the citizens may be treated, during the Winter, to a course of lectures, which shall be creditable to the association, under whose auspicies and for whose benefit they are proposed, and to the gentlemen who may be employed to fill up the series.

THE OPHIR AND BURNING MOSCOW CONTROVERSY.—Judge North has rendered a decision in the application of the Ophir Company for an injunction against the Burning Moscow. He fails to see that the two leads are identical, and until that is demonstrated by actual proof, he refuses to enjoin the Burning Moscow Company from working their mine. We should judge from his decision that the ledges are distinct, although one lies directly over the other.

SOME very extraordinary reports are made about the discovery of an extensive lead mine, called Las Vegas, situated up the Colorado river. The ore yields eighty per cent., and it is said that the value of the mine, from its known extent and richness, is inestimable.

ANOTHER PAINT MINE.—Some parties have just discovered and located a lead of red ochre of a very superb quality, near Virginia City and just south of the Gould and Curry lower tunnel. A number of experiments with the paint have been made, all of which were entirely satisfactory. It is pronounced superior to any on the Pacific coast. The company who have located the mine will shortly set up machinery for preparing the paint for use.

THE BULLION.—Steam machinery, of an excellent and costly character, has just been put up on the Bullion mine, Gold Hill. It was set in motion, for the first time, on Christmas day.

The Lady Bryan Mine.

The "Lady Bryan" is one of the earliest of the locations near Virginia City apart from the Comstock lode. The mine appears upon the surface like a vast pile of quartz and porphyry about 150 feet in width and rising to a hight which would make a prominent land mark in a level country for many miles around. This mine has had its frequent "ups and downs," the chief of which, however, is its present movement. Within about a week after the late "strike" this stock advanced from $8 to $70 per foot—nearly 900 per cent. It has since receded and is now quoted at $40. We condense the following particulars with regard to the present discovery, from the local column of the Virginia *Enterprise:*

Having heard that a rich mass of ore had been struck in the mine—we were anxious to see it for ourself and examine its quality and, so far as possible, its extent. It was expressly for this purpose that we visited the mine.

On arriving at the mouth of the tunnel we found ten or twelve gentlemen from this city examining a quantity of ore that had been brought out of the mine and was now deposited at the mouth of the tunnel. Among these gentlemen we recognized some of the shrewdest operators in mining stocks and two or three men whose knowledge of ores and mines, both scientific and practical, is not surpassed by that of any person in the Territory. All were well pleased with the ores before them—in fact no person having any knowledge at all of silver ores could doubt its richness. Altogether some twenty tons of ore have been brought out of the mine. The best of this has been sacked up, yet there is a large amount of excellent ore heaped up on the dump. We picked out several lumps of black sulphuret ore that were as fine as any that can be found in the best of the mines in this city on the Comstock lead.

In company with half-a-dozen gentlemen who wished to see the spot from which all this rich ore was taken, we entered the mouth of the tunnel 354 feet in length, but we did not follow it to the end. After proceeding the distance of 264 feet we came to a shaft 57 feet in depth, which it was necessary for us to descend.. We were lowered to the bottom —here we found a drift about 18 feet in length, following which to its end we came to a cross-cut, and here it is the ore was found. The opening from which the ore we saw above was taken is 19 feet long, some six feet high, and on the average seven feet in width. Here, on both sides of the drift, in the end and overhead, we found ore of the same quality as that we had seen above in sacks and heaps. A mining engineer, whose name we did not learn, was with our party in the drift. He and others of the party, with picks and sledges, broke down the ore from all parts of the opening in which we stood, and after thus examining the sides and top, we shoveled away the loose dirt and rock in two or three places, and thoroughly examined the bottom by digging out lumps of the ore. We think every person present was perfectly satisfied with the evidences of wealth visible on every side; and we have no right to suspect any one of the dissimulation who saw these things, and seeing them, acknowledged a belief in them. We can say no more of the extent of the deposit of ore we have been describing than we have already said. There may be a thousand tons in this spot, or there may not be over a hundred or two. But it is quite certain that having found what they have the company will find other deposits below it, or at other points along the lead.

On coming out of the mine, we took a look at the hoisting works. The building is 60 by 24 feet in size and is substantial in every respect. The engine is of 30 horse power. The pump is of 8-inch bore and five-foot stroke. A good deal of water is coming into the main extraction shaft which is now 180 feet in depth. About 100 gallons per minute. These hoisting and pumping works, with buildings and all complete cost the company $20,000. The machinery is all in perfect condition and well put up. The machinery was first started about 70 days ago.

At the house of the Superintendent we were shown a fine collection of specimens from the mine. In one of these native gold was visible and two or three small bits of wire silver. In another we saw a number of scales of pure leaf silver—precisely similar to what we have seen in rock in the Gould & Curry.

The mine is under the superintendence of Mr. James H. Owens, who erected the machinery and brought the whole mine to its present promising position, assisted by his efficient foreman, Mr. James Opie. A fine stream of water runs from the mine—amply sufficient for the mill. Wood may be floated down the Carson to a point but a few miles distant from the mill. In short, we like the prospects of the company. As for the salting, we are ready to answer that all the salting that has been done in the mine is the work of the Almighty.

The largest clean-up ever made from one day's run of the Gould & Curry mill, was on the 23d instant. The weight of unretorted amalgam taken out was 3,555 pounds. This will make about one-fifth that weight in bars, and is worth in the neighborhood of $20,000.

This company is making another of its characteristic "improvements." The company is building a large, stone culvert, below the mill, which is to be several hundred feet in length, and some immense blocks of granite are being used in its construction. These are hoisted and lowered into their places by means of two huge derricks. A large number of men are engaged on this wall, which is some six to eight feet high by four in thickness. The drain is several feet in width and will carry all the water of the ravine.

Go to Work.—The idea of "respectable employment" is the rock upon which thousands split, and shipwreck themselves and all who depend on them. All employments are respectable that bring honest gains. The laborer who is willing to turn his hands to anything is as respectable as the clerk or dapper store tender. Indeed the man who is ready to work whenever work offers, whatever it may be, rather than lie idle and beg, is a far more respectable man than one who turns up his nose at hard labor, wearies his friends with his complaints because he can get nothing respectable to do, pockets their benefactions without thankfulness, and goes on from day to day, a useless, lazy grumbler.

Cornish Miners En Route for Lake Superior.—The *Detroit Commercial Advertiser* of September 5th, says:

"Seventy miners, just from Cornwall, England, left this city last Saturday for Lake Superior. About the same number passed up on the Saturday previous. They will no doubt be followed by others. The demand for labor is so great in the Upper Peninsula that all who migrate thither will be sure of employment."

A Locomotive Engine will carry two hundred tonsn at a cost of fuel scarcely exceeding the cost of corn and hay which a pack mule consumed before the locomotive was invented, in conveying a load of three hundred weight an equal distance. The same difference of cost would be saved the community by using steam engines upon city railroads instead of horses, and every saving of cost is so much capital set free to employ more labor, and add to the general accumulation of wealth.

Extending the Arsenals.—The *Boston Herald* says that Government is considering a project to extend the area of the Watertown (Mass.) Arsenal, now one of the most important Government works in the country, so as to include a foundry for the casting of cannon, etc. Within the past few months carriages for field-pieces, made altogether of iron, have been manufactured at the arsenal.

Opposes It.—The *Humboldt Register* opposes the ratification of the Constitution, on the ground of its compelling the taxation of possessory rights to mines in the Territory.

Another Earthquake.—There was another vigorous earthqnake at a quarter of three on Tuesday morning.

A mason at Harrisburg, Penn., while dressing a block of stone, found a large petrified rattlesnake inside.

Photo-sculpture is a recent fashion of Paris. Statuetts in plaster, executed to the life, are becoming as common as photographs.

Nature, foreseeing that her children would be tampering with minerals, hid them in the earth, and covered them with herbs and plants, as fitter for their use.

Quartz Mill.—A fine twenty-stamp mill, constructed in Stockton, was shipped from that city a few days since, *en route* for the Crown Lead, Mariposa county.

Hung Fire.—An attempt was made on the 29th of November to launch the iron-clad *Dictator*, at New York, but without success. A large concourse of spectators was present, when, at 11 o'clock the workmen commenced to wedge out the blocks and clear out the iron-clad for launching. In fifteen minutes the ship began to move slowly down the ways under the influence of a powerful hydraulic ram, but she soon ceased to move. Steam tugs were then employed, but failed to move her. The failure is attributed to the settling of the ground, the undulation of the launching-ways, and the defective composition of the tallow used for lubricating the ways. The men had worked most of the night cutting away the shores, but when they knocked away the props in the morning the obstinate *Dictator* only moved a few inches, and then settled down again. A powerful hydraulic pusher of 425 tons power, and a swinging ram handled by 50 men, were applied to the bows and launch-ways without producing the least effect. A strong manilla hawser was next made fast to the eye-balls and bits on the stern, and run out a couple of steam tugs on the river, but the team of steamers could not budge the iron ship. A third, fourth, fifth, sixth, seventh and eighth were fastened to the tow-line, and they pulled and puffed, and strained and jerked, to little purpose, and after two hours' hard work it was found that the state of the tide, which had fallen, made it necessary to postpone any further attempts until more power could be applied. The *Dictator* was the next day started some four feet by the aid of several tugs, and stopped. The launch was finally accomplished on the 26th of December.

The Lake Superior Silver Mines.—The miners in the vicinity of Marquette, Lake Superior, are wild over the rich deposits of silver in their neighborhood. In one locality it was believed that fifty tons of ore could be got out in a week. The veins are said to be generally well defined, and of a character to be easily mined.

The latest advices from these mines appear to fully confirm previous accounts of the richness of the newly discovered veins. A letter, dated October 26 from S. H. Douglass, Professor of Chemistry in the Michigan University of Ann Arbor, who had received some of the ore for assay, concludes as follows:—

"It contains 3.26 per cent. of pure silver, or upward of sixty five pounds of silver to the ton of ore. I suppose that I took an average of the specimen, yet the yield is very large. I send you the result with a sample of the silver extracted. I have worked nights to complete the analysis in order to send it early. I will make a second analysis.

Rich Rock.—The *Nevada Transcript* of December 26th has the following notice of sulphuret rock: We saw yesterday some fine specimens of sulphuret rock from the Fellowes lead, on German bar. The rock was nearly all sulphurets, and is said to be extremly rich. Free gold was sticking out in many places, but the sulphurets are what are relied on. The rock yields but moderately under the stamps. The lead, we learn, has reached one of its thin places where it is mostly of the character of the specimens we saw and is far richer than it is in the thicker parts. This lead is well known for its almost fabulous pockets, from one of which George Fellowes took more than a hundred thousand dollars two years ago. All the rock will pay for crushing and in some places the lead is fifteen feet thick. When it is taken into consideration that now and then a rich pocket is struck, and that the sulphurets which exist in the rock in large quantities are worth from fifty to as many thousand dollars per ton, it will be generally supposed that such a lead ought to be among the paying ones of the land.

Large Hammer Casting.—At the Onseburn Engine Works there has been cast a large frame for a steam-hammer, on Mr. Robert Morrison's patent. The pit for the same was 45 feet long, 24 feet wide, and 12 feet deep, and required about 55 tons of metal, 28 tons of which were held in a large air-furnace erected for the purpose, and the remainder in two ladles. The running of the metal occupied five minutes and nine secouds. The whole of the operations were under the able management of Mr. J. Turnbull, and were successfully carried out. A number of ladies and gentlemen were present during the casting.—*Newcastle Daily Journal*, about Nov. 1st, 1863.

A Sydney paper states that two diamonds have recently been found in the mines.

[Written for the Mining and Scientific Press.]

Knight's Ferry.

BY OUR TRAVELING CORRESPONDENT.

Mr. Editor:—I stated in my last letter that I had finished the copper mines of Calaveras county. I thought it better, however, being in this section, to visit those lying in the adjoining part of Tuolumne county, on my way to Sonora. It is well I did so, for I found several parties interested were expecting me, who had began to think I intended to slight them. I shall commence with those mines in the neighborhood of Knight's Ferry.

This little town lies on the banks of the Stanislaus, and was once famous for its placer diggings. It had also hill diggings, but these have also given out of late, with one or two exceptions. I understand the high ridge on the north side of the town, a portion of which has been worked, would pay fair wages from one end to the other, if the water ditch was large enough and high enough. It is contemplated I believe, to cut a new ditch for this purpose; and if done, no doubt it would materially benefit the place.

The future prosperity, however, of this pretty little village, does not depend upon that operation, by any means. As at Campo Seco, the copper age is opening upon it, under prospects which bid fair, long before they can cut the new ditch, to give it a life, business and importance, but few of its inhabitants dream of at present. Indeed, I found those most interested in the welfare of the town, as merchants or land-owners, were precisely those *least* inclined to support our efforts to bring its copper mines into notice. By and bye, they will see their mistake, and act with more sagacity.

Immediately on calling upon Mr. Hill, merchant, a firm believer in copper, he ordered his buggy; and with Mr. Fisher, post-master, accompanied me round. Crossing the river Stanislaus, and going out on the Sonora road, some two miles, I found the mines already opened, lying pretty close together, The first we visited was the

Clear Creek and Webster, Consolidated.

It contains 3000 feet in single foot shares. Main shaft 87 feet—opening well with gossan, and an east wall from the beginning, and now showing the west wall. The rock is pure and carries large quantities of mundie and yellow sulphurets. According to indications at present, 125 feet ought to give a strong, rich vein of ore. To the north-east of this claim, a short distance, on another vein is the

Vicksburg.

It contains 5850 feet in single foot shares. Main shaft 80 feet. Work being suspended for a time, I could not go down; but the croppings and rock are very handsome, strong and pure. This eventually will be a valuable mine. On the north continuation of the Vicksburg is the

Andrew Jackson.

It contains 4450 feet in single foot shares; with two shafts, respectively 22 and 30 feet deep. The shafts both open well, on fine croppings, and the rock in each shows yellow sulphurets. In the latter there is a very heavy east of mundie. On this hill, all over, the croppings are very much scattered, making the location to sink difficult to determine upon. I prefer the upper shaft. On the south continuation of the Vicksburg, about a mile is the

American Eagle.

It contains 7800 feet in single foot shares. Main shaft 60 feet, with a well defined vein of 6 feet, with both walls and fincckan—making it an established fact. Like the Clear Creek, all that is wanted here is depth. Ore may be struck any day. This is a first-class claim. South-west of this, a short walk, is the

Clear Cat.

It contains 5250 feet in 17 shares. Main shaft 35 feet showing a good vein with both walls. The rock is, however, corrupt; and they will have to go considerably deeper than they allow, before they strike good ore. Nevertheless, the prospect is good. South-east of these claims, half a mile, is the

Nelly and Julia.

It contains 3000 feet in single foot shares. Here they are running a tunnel, already 60 feet out of 150 feet, they calculate to run before cutting the vein. The rock is a good prophecy, carrying strong sulphurets of iron and copper pyrites. The claim is named after two well known San Francisco ladies, and promises to be good. West considerably of this lies the

Copperhead Consolidated.

It contains 3750 feet in single foot shares, with three shafts; the first, 40 feet, the two latter, each 30 feet; the third is considered the most promising. I did not see this claim, and cannot therefore explain the cause of sinking so many shafts. The people here hunting copper are terribly afraid of going down; but they will have to do so finally. By and by they will find one deep shaft, as I have already said, is worth a score of shallow ones. The next claim is the

Victoria.

It contains 3750 feet in single foot shares. Main shaft 12 feet, looking very well. This is a south-east continuation of the American Eagle, and will probably in the end be worthy the name it bears. On the north extension of the above, is the

Ally and Julia.

It contains 3000 feet in single foot shares. Main shaft 12 feet, looking equaly well. This vein, all through, is very strong and promising. Proceeding to the extreme west of this system, in a straight line, nearly from the time, some two miles is the

Live Oak.

It contains somewhere about 4000 feet. I believe it is incorporated. Main shaft 86 feet, but work being suspended here, I did not go to the mine. It is the deepest shaft in the district, and the mine generally is spoken of favorably.

Other Mines.

Such are the mines of Knight's Ferry, already in operation. There are, however, a multitude of others, which at present are simply located. The mines are on the Gopher veins, or Hog Hill, as it is more familiarly termed, which our readers may remember is the extreme western system of the Copperopolis formation. Unquestionably the veins are strongly developed through this section, more so I think than at Gopher. Mr. Hill and myself took great pains to locate if possible, the Napoleon and its parallels; but it was difficult to do so, from the fact that *here* are five distinct veins. We took our lines from Hog Hill, very plainly in sight, and made two run on the western and three on the eastern side. It is difficult, however, to decide which are on the Napoleon vein. If Mr. Collier is correct in tracing his old claim to this place, and in the location of the shaft he has commenced, then the Andrew Jackson, the Vicksburg and American Eagle are the lucky ones.

However this may be, there is no question but that the mines here look remarkably well. The country around also affords good shipping facilities. They are only backward from want of capital. Altogether they afford a good opportunity for investment; but it must be made immediately, before copper is struck. Good chances can be had at present. In a short time it will be too late to take advantage of them, and then the croaking wiseacres of Knight's Ferry and elsewhere, who know as much about copper mining as they do about etymology, syntax and prosidy, will feel very cheap.

I shall next take the mines nine miles above, from the Crimea House to the Tuolumne river, supposed to be on the continuation of the Copperopolis lode proper. In the meantime, I beg to acknowledge the extreme politeness of Mr. Hill and family, Mr. Fisher and others, and trust Knight's Ferry will never more be destroyed by large fires, or washed away by great floods, but enjoy to the fullest measure the prosperity before it.

L. H.

[Written for the Mining and Scientific Press.]

Hints to Prospectors.

BY J. H. CHURCHILL, A. M.

Prospectors! is your occupation gone? Four thousand companies demanding a vast deal more capital than is invested in mining from one end of the world to the other, and more men than exist in the whole State, would seem to cry "Hold, enough!" But no, you say "as long as there is so much ground unprospected, it will pay us the best of anything." You like it, but with so much competition for means and men; let us to the point.

I. What constitutes the value of a mine?

A short time ago it was a pocket specimen, the counterpart (??) of another, said to be a marvel of richness by somebody—an assayer doubtless, perhaps a chemist. A shorter time since it was "a working test"—a little larger quantity—this time a skinfull from La Paz or Mexico, a bagfull from the interior, and this hurried through a fire with expeditious fluxes, or what not, too costly for practical use. It had then yielded so much by *working process*. It was proved that the skins and bags on Montgomery, Clay, California or Washington streets, contained what? Well, a mine of wealth of course! Did it ever occur to you, copper prospectors, that the essence of the *Swansea working process* was mixing *different kinds of ore?* Are you aware that the furnace bottoms absorb an unknown and varying amount of metal?—Do you know, prospectors for silver, that above a low red heat silver ores are volatile?—that with different metals this loss varies? Do you know that with zincblende, for instance, even in most experienced hands* one half the silver has been lost in this way? In a true working process much of this may be recovered in the flues. Where does yours go, to profit or loss?

Remember that these results are dependent on the other minerals present. What guide have you in these so called working processes as to the quantity or even existence of the metals that are sublimed up the chimney with your silver? If these losses are estimated for, perhaps it is no concern of yours if they are rated a little too high. "It will help to bring the company out." Such has been the case. Mines, I should say "feet," have been hitherto bought by men and women relying upon some single feature, as a rich bachelor may marry at a single glance, charmed it may be by a pretty bonnet which is no part of the woman at all.

At the present time while capitalists are so much more cautious it will serve prospectors to attend somewhat more to the details which go to make up a mine—It will be well for them to provide themselves with particulars on such points as these.

1. In regard to the situation, its being favorable for dressing the ore as in case of tin—for supplying fuel, and perhaps salt, as with silver ores—for running adits where water is to be got rid of—for easy freight, where bulky ores are to be moved—for timber where the veins are wide or the ground weak—a sufficiently rich neighborhood to ensure supplies, food and skilled labor.

II. The geological character of the country. On this point more attention is to be paid to the features which mark rich leads in the same district than in others. Certain bedrocks are associated generally with certain minerals The coincidences of the same bed-rocks—the same veinstones—the same direction or strike whether the vein be an extension or parallel—the same dip—may in the one case be favorable guides, at a distance they will be quite uncertain.

*Malaguti and Durocher, Paris.

III. If the work of prospecting has been carried far enough to develope the dip of the vein and its thickness, it is very important, where the latter varies, to examiue the walls for signs of ahrasion, such as striœ, or grooves, which may indicate a sliding or grindiug of one face upon the other—or where these arc quite ahsent, to observe the succession of the thick and thin parts—if these are so connected, that if slid back, the projections of one side would tally with the hollows of the other mutually, the symptoms of thinning out may be disregarded, espccially dcposits of clay and broken bedrock, above the narrow parts. A thinning out on reaching a new bedrock will very probably be fatal.

[To be concluded in our next.]

[Written for the Mining and Scientific Press.]

Letter form Lower Califonia.

La Paz, Dec. 19, 1863.

Eds. Minino ann Scientific Press:—The mining intercsts of this Peninsula never looked so promising as at the present moment. Many of the more prominent and wealthy companies are dcveloping their mines with an energy beyond all praise. The most universal confidencc is entertained that these mines are not only immensely rich, but that they are practically inexhaustible.

Having taken a trip on the fourth of this month to the miuing district of San Antonio, I have thought that a few brief items might prove of inter est to your readers. The principal mines of this district are those of the Mexican Mining Company, and the Triunfo Gold aud Silver Mining Company, each of them owning and working a large number of mines well known by name here, but which it would be useless to specify separately in my letter, as they are merged in the general incorporation of thosc companies. I give the precedencc to the Mexican company, as being the older of the two companies, but not by any menns the richer; at least in my opinion.

The Mexican mine is owned by ten or twelve parties, resident here or on the Mexican side. As far as we are aware none of the stock has ever been offered for sale, the owners deeming it impossiblc to make a better investment of their money. It is about two years and a half since the mines of this company were opened. Sixty or eighty thousand dollars werc expended in putting the mines in proper working condition, under the efficient superintendence of Mr. Florse, although a Mexican, one of the best practical metallurgists in the country. The company have no reduction works or machinery of any kind. The ore is shipped to Freiburg, such of it as yields $100 per ton and upwards; the balance is laid aside for future use, until mills shall bnvo been erected in the neighborhood, or until the company erect works of their own, Wheu the company have a suitable quantity of ore ready for shipment, the Government assayer makes a careful average assay of the pile. Ou the presentation of this certificate, together with the bill of lading, the Mazatlan shippers are always ready to make advances in some cases as high as fifty per cent of the assay, in order to secure return freights and commission. The records of the Mexican company show that for the last year and a half the returns of the Freiburg houses *overrun* the government assays one and a half per cent. on an average! To Califoruians this must seem a somewhat startling fact. It is in a measure explained, when we come to consider that at the German reduction works they save the base as well as the precious metals, and that a careful return is made to the consignor. If anything still remains unexplained, it may be placed to the credit of the superior method aud ability—perhaps even to superior honesty of the Europeans.

The few gentlemen, owners in this great mine, have already divided upwards of three hundred thousand dollars. I am told that this company have recently received large returns from Europe, and that they have now, at La Paz, six to eight hundred tons ready for shipment.

In the immediate vicinity adjoining each other in some cases, are the mines of the Triunfo G. & S. M. Co., of your city. Conceding the mines to be of equal richness, and they are richer beyond a question, the Triunfo mines are still as superior as American skill and energy is superior to the best of Mexican enterprise. Judge McElroy, the superintendent has not his superior as a miner on this coast, and every thing considered, I do not think his equal could be found for the sole management of an enterprise of such magnitude as the works of this company, even in their undeveloped state have already proved to be. No better evidence of this could be adduced than the extraordinary progress of the company's works. The actual permanent opening of these mines was not commenced until the middle of Febuary 1863, less than a year since. During this time the following mines have been opened sufficiently for the extraction of very rich ores. The Carmen, Santa Fe, Valenceina, Mendocena and Esperanza. A splendid tunnel has also been run, and designed to strike a number of the companies mines which run parallel, at, a depth of two or three hundred feet from the surface. The first of these mines, the Carmen has already been reached at a distance of three hundred and thirty feet from the mouth of the tunnel. The tunnel continuing, I should imagine, a hundred, or a hundred and twenty feet beyond, connecting with a shaft from above. Considerable breasting has been done on the Carmen, and some immensely rich ore extracted. At the spot where the vein was cut, I measured seven feet of metal, and if I am any judge, it would he difficult to find anything to surpass it in average richness. The mill and reduction works are admirably located, a gentle grade descending to the spot, from all the mines. The mill was furnished by Messrs. Goddard & Co. of your city, and when completed, will consist of five batteries of five stamps each; as yet only two batteries have been forwarded from San Francisco. At the time of my visit the work was progressing with the greatest rapidity. The batterics were up, as also the engine, line shafting, head pillow blocks, main shaft, etc. I should judge that the engine will be fully completed in about a week. The foundation is laid and all the works put together in the most thorough and substantial manner. The foundation of the furnace is laid, and all the bricks and other material are on the ground. At the site of the mill there is already a pile of ore; I should judge about fifty tons, or more. I was informed that the assays of this pile, made to ascertain its average value, exceeded twelve hundred dollars per ton. If this be so, it is a most extraordinary yield, and from all that I learn I see no reason to doubt it. After a most careful examination of these mines, I am fully satisfied that the Triunfo Company will prove the Gould & Curry of the Peninsula, and every indication goes to prove that in the Triunfo Valley will be located its Virginia City. The Triunfo company I am told are about to purchase, or have purchased two leagues of the chainers portion of the Valley, securing all contesting titles to the same. This will prove most fortunate for the prospects of the Valley, and without a doubt, it will speedily become a place of much importance, as there are numerous mines, as rich probably as any on the Pacific coast, within view from the site of the Triunfo Company's works. At some future time I may give a more extended notice of the mines of this neighborhood but my letter is already probably somewhat too long, so for the present, *adios*.

V.

Mr. S. P. McCarty, the well known and successful canvasser for the *Sonora Flag*, has become connected with the *Daily Evening Journal*, as business agent. McCarty is an active man and has an extensive acquaintance throughout the State.

STOCK REMARKS.

More than the usual amount of business has been transacted in the Stock Boards since our last issue, notwithstanding the joyous influences of the holiday season. Gould & Curry is rapidly tending upward; $5,000 is offered, while holders are scarcely willing to sell at $5,025. The reports of the President and Secretary have been published, from which it appears that the affairs of the company are in a highly prosperous condition. We shall allude to this report, at length, in our next issue.

Ophir, since the refusal of the injunction asked against the Burning Moscow, has declined somewhat and cannot now be quoted at over $1,490. The December dividends have also shared somewhat in the depression. A large number of sales have been made during the past five days, commencing at $40 and gradually declining to $25 on Thursday.

The Lady Bryan is still on the decline, notwithstanding a large number of substantial buyers, of good judgement, are in the market. It opened on Monday at $50, and gradually declined to $38 on Thursday.

Burning Moscow still continues the chief attraction, and has encountered another week of remarkable fluctuation. The refusal of Judge North to grant the injunction asked by the Ophir, gave it an upward tendency at the commencement of the week, which carried it to $190; it has since declined to about its normal condition and may now be quoted at $137½ to $140.

The Desert has declined in sympathy with the Lady Bryan, of which it is an exteusion. It was quoted on Thursday at $12, since which it has not been heard from.

Sierra Nevada, Burnside, Imperial aud Chollar are inactive.

Uncle Sam, Overman and North American continue to attract some attentiou; Blatic is firm at improved rates.

Wide West is enquired for at $47 @ $51, buyer 30 days.

Utah has met with sales at from $21 @ $30.

We refer to our report of sales, and to the bids in the San Francisco Stock Board.

The Henry and Barnard Consolidated Gold, Silver and Copper Mining Co., was organized on the 10th of November, with a capital of $1,940,000. J. M. Blood, President, Geo. W. Gildersleeve, Secretary, and S. P. Taylor, Treasurer. Office, 322 Clay street, in this city. This company is located in the Weaver District, Arazona Territory. One hundred pounds of ore of this company's ledges, the Lord Byron, has just been sent up to this city. The ledge is very rich, shows free copper, and is eight feet thick.

Sacramento Iaon Works.—Parties from the interior will find it a great advantage, in many cases to order their machinery from Sacramento. All such will find Messrs. Goss, Lomhard & Co., of the Sacramento Iron Works abundantly able to fill their orders promptly, and in the most satisfactory manner. They enjoy already a highly prosperous husiness and advertise in the *Press*.

Stocks in Virginia City appear to be "at rest" during the holiday season. We have received no reports since December 28.

The Esmeralda Stock Board has not been in session for some months. We hear it has adjourned *sine die*.

Defered.—An article on the State Library; nine communications from Sonora, Tuolumne County, and several other contributions, which will appear next week.

Bullion.—The weight of bullion shipped by Well, Fargo & Co., from Virginia City during the week ending Dec. 26, was over three and a half tons, or 7,174 lbs., worth $473,205.

Summary of Mining News.

GLEANED FROM VARIOUS SOURCES.

River mining has been protracted to a much later period than usual this season, in consequence of the unusual lack of water in the rivers. The Celestials, to whom river mining is now pretty much given up, have therefore enjoyed "a season of unusual prosperity." The same cause which has been so favorable for the river miner has operated greatly to the disadvantage of the miners in the dry and hill diggings. Even yet there is a great scarcity of water throughout the mines, and in many localities large numbers of miners are still waiting for this much needed element. There appears to be, at the present time, and probably for the above reasons, a great dearth of mining news throughout the State We append such items as have come to hand since our last issue.

El Dorado.—The *Folsom Telegraph* says the copper miners seem to be resting from their labors, in that vicinity, at present; those who expected to find copper on top of the ground and a fortune with it, have been slightly disappointed. The experience of all successful copper mining in this State proves that no permanent bed of ore can be found at a less depth than one hundred feet from the surface, and that whenever a permanent bed of yellow sulphurets is discovered, the miner may conclude that he has really struck it. The principal claims now being worked in that neighborhood, and on which work is prosecuted with vigor, are the claims known as the Hank's Ravine claims, and the claim known as the Jane and Gilbert claim. The shaft in the principal claim in Hank's Ravine is 117 feet in depth, and in it are found beautiful specimens of granulated copper, the pure native metal, and in sufficient quantities to pay for shipment. The Jane and Gilbert company have a vein of yellow sulphurets that they have followed from near the surface, which is gradually increasing in width, and we are informed by old copper miners, that the chances are that this claim will prove rich after sinking a sufficient depth. The gold mining claims in the flat, below town, are paying well; after the great expense incurred in running tunnels, and drains, the owners are reaping a reward for their perseverance and industry. The principal topic of conversation on change, is silver—Reese River, Silver Mountain, Humboldt, and Enterprise stocks. Trading stock is the order of the day, and holders are perfectly certain of having their fortunes secured as soon as the mining season opens. "Feet" are being handled quite freely, and without reserve as to value.

The Boise Mines—Rich Silver Ore.—The Boise *News* says that an assay from the Morning Star quartz ledge shows a yield of $7000 in silver and $2,800 in gold. The silver permeates the entire rock and not in spots and particles as is the case in many ledges, specimens from which assay well, but do not work up to the prospect. A town on Jordan Creek, called Boonville, has recently sprung up; it contains thirteen houses, and covers about all the available building ground there is in the vicinity. Two and a half miles further up is Ruby City, and one mile still further up another town is laid out. The *News* gives encouraging accounts generally of that Mining locality.

Nevada County.—A correspondent of the *Marysville Appeal* writes that the work of prospecting for copper still progresses in the Zinc House district, with flattering results. The Well Company, after drifting from their east wall some 70 feet, have struck the west wall of their lead. This is the widest lead yet found. The Homestead Company, (formerly the Yolala) have struck gray ore at a depth of about 70 feet. The Gray Eagle Company are putting an engine on their works that will keep them dry and enable them to work their shaft to advantage. Work is progressing on the Last Chance, where some fine ore is being found. The Hooker and General Grant have both got good ore, yet not in paying quantities. The Wild Rose Company have struck some ore, and the prospects for that ledge are most favorable. This company intend to work their vein through the Winter, and brilliant results are hoped for. They have a very large vein of soft croppings, and at the depth of 50 feet have obtained very flattering prospects. The Mammoth Company are at work on their leads.

Tuolumne.—A correspondent of the *Sonora Democrat*, writing from Columbia says that times are rather lively in that vicinity, but in a wrong way for the prosperity of the place. Everybody that can leave is packing up and striking out for "tall timber." Some ten or twelve left the other day for the coal mines, in Contra Costa. That's bringing things down to a focus when men have to abandon the gold mines and seek employment in the coal mines. The true cause of this sudden migration is the want of water.

Coast Range Copper Mine.—The editor of the Marysville *Appeal* has conversed with one of the miners of the lately discovered copper mines in the Coast Range, west of Colusa. He says that the miners are prosecuting their labors of prospecting with energy, and have the best indications as to the richness of these mines. Many of the companies have erected machinery for lifting rock and are driving their shafts with vigor. Among those he named, was the Washington company, whose shaft has already been sunk to a depth of 106 feet—and the owners have erected a horse-power whim for lifting rock and water. The Jefferson is also down 68 feet, and about erecting a similar whim for expediting work. The owners of the claims known as the "Frost," "Gnome Cook," and "Franklin," are also pushing their work. The "Frost Ledge" is reputed to have the favorite lead. The miners at work have the greatest confidence in final success.

Reese River.—A letter before us from Reese River, speaks of the ledges at Amador as enormous in size, from ten to twenty feet wide. The writer says "the boys have struck it" on the Peacock rich. They feel confident that it is a good ledge and intend to hold on it. All kinds of business there except building and prospecting is very dull. They have just commenced work on the Nimrod, with good indications of having a valuable vein. The Niagara is down about 12 feet, and has been worked enough to hold it through the winter. It looks well. The Exchange is just being opened. There was a large amount of prospecting going on there at the time of writing, Dec. 16th, more than there was last summer.

Rich Yield.—Dave Crear, says the *Reese River Reveille*, has showed us two small bars which he had obtained from only three pounds of the Florida rock, worked by hand. The bars weighed 8.37 ounces and were worth $10 67—the silver being 996 fine. At this rate the yield of this rock would be $3 55 2-3 to the pound, or $7,110 to the ton.

Rich Rock from Augusta District.—Some rock recently sent in from the "Sister Series" ledges, Augusta district, Reese River, to Mr. Robert N. Graves, Superintendent of the Empire Mill, Gold Hill, went as high as $350 per ton. This district was organized some eight or nine months ago. There has been, as yet, but little work done on the claims, but what has been done has resulted in developments entirely satisfactory to the owners of claims in the district.

Shasta County.—At the Pittsburg Copper Mines, the original Williams & Kellinger Company have commenced shipping ore below. They are also engaged in constructing arrastras to crush some gold-bearing rock, which is found in their claim, and which is known to be very rich. Much stock in this company has changed hands of late, at high figures per foot. The Original Twenty-six Company have decided to incorporate as soon as the articles of incorporation can be signed by the stockholders. This company are going ahead with the work on their claim. The Webster claim is being worked for the purpose of laying the claim over, under the laws of the district, for six months, and in the meantime efforts will be made to incorporate. This claim is know to contain a rich silver lead, not unlike the Williams & Kellinger. The Columbia Company have decided to incorporate, and the owners think they have a good thing of it. The Original Minnesota Company continue to push forward their tunnel, and are not sparing expense in developing their silver lead. Other companies have let contracts for running tunnels and sinking shafts, and much activity prevails throughout these valuable mines.

Siskiyou.—The *Arcata Journal* says that Siskiyou county is deficient in a supply of mining hands, caused by the stampede for new places and the dread of China competition. Miners' wages have increased 25 per cent., and mechanics' wages have increased also.

Plumas.—A company has been formed to cut a tunnel 1,200 feet in length through the hill which separates Indian and Round Valleys, in this county.

Butte.—Placer miners in the vicinity of Cherokee Flat and Morris Ravine are patiently waiting for water to work their claims with. These localities are not supplied by ditches, and the quantity of rain that has fallen during the present season, has not been sufficient to furnish a supply. Many have their claims in working order, and the welcome rattle of the shovel and the sluice fork will resound through the cañons and gullies, as soon as the rains shall furnish them with a sluice head.

Sierra.—The late storm has put an end to river mining, the two forks of the Yuba having swollen to such a degree that the usual pumping appliances were altogether inadequate to keep the water under control. The *Messenger* judges from the "cleaning up" which the Editor saw, that the mines on Rabbit Creek, below La Porte were doing well. There has been some sluice robbing, by Chinamen, at Cox's Bar. A charge of shot from a double-barreled shot gun brought one of the robbers down with a severe wound. He was subsequently provided with suitable apartments in the county jail. The claims at Howland Flat are paying well, but there is a great lack of water. Some of the companies are washing their dirt, the richness of which seems thus far to exceed their most sanguine expectations. But water is scarce, as yet and a few hours at a time has been all the washing done. It will require about ten days, running all the time, to clean out some of the large dumps. Most of the companies are still working short handed, but should there be water to clear the slides, there will be an immediate demand for more men—otherwise, some of those now employed must be discharged. The American company has recently completed a tunnel which cost thirty thousand dollars. The company have a large amount of what is considered the best ground in the county. Fletcher & Rowland's mill, in Sierra Valley, turned out this fall over twelve hundred thousand feet of lumber.

Yuba.—The Marysville *Express*, speaking of the mines in this county, says a silver lode has been struck in Prairie District, some two miles above Brown's Valley. We saw an assay from the croppings, which was $26 46 silver and $12 72 gold. The rock resembles Washoe rock, and the lode is thought to be extensive. The Marysville Company, at Brown's Valley, have struck a very fine ledge of gold-bearing quartz, at the depth of forty feet, which is from three to four feet thick. This company is steadily prosecuting their work, and they feel confident of being richly rewarded for their outlay. The Burnside also struck a fine ledge last week in their shaft. A large number of other companies are prospecting, with fine prospects. The claims which have been opened are paying better as they go down.

Silver Bars.—The Aurora *Times* of Dec. 23d, says: "Last evening we saw on the counter of Wells, Fargo & Co., at this place, five large, handsome silver bars, valued at upwards of $12,000. Four of these bullion lumps were from the Del Monte, and one from the Crockett company. There was also a sixth bar, smaller than the rest, containing considerable gold, and very valuable for its size. These are some of the evidences of the way in which our mines are giving out."

Belcher.—The *Gold Hill News* grows quite jubilant over the manner in which the Belcher has lately been giving out. It remarks: "We saw this morning on the counter of Maynard & Flood's Bank seven large, solid blocks of silver bullion, ready to be shipped to San Francisco. The total value was eighteen thousand dollars. It came from the Belcher mine."

Rich Rock.—Five hundred pounds of rock from the Crittenden Lead, Reese River, worked at Austin, yielded $131 23 in silver, 980 fine.

Drawings.—We have highly talented and efficient Draughts men, by whom drawings of every descriptions are executed in the best style of art, with promptitude and at a moderate cost.

THE MINING INTEREST.

No question can be raised as to the paramount importance of the mining interest to the State of California and the city of San Francisco. It is to the success of this interest, almost exclusively, that this city must look for its future growth and prosperity. Of all the various schemes presented to the capitalist, here, for the employment of his money, there is no one which has a stronger claim upon his attention and careful consideration than mining. This interest has none the less claim upon him because past deceptions and illusions have dashed down hopes and frittered away investments. Let the past teach caution; but let it not debar liberal action. The San Francisco capitalist who shuts the door of his counting room against the miner and his interests, not only commits a grevious wrong against himself, but also proves himself unworthy to be ranked among those who would be foremost in building up a great metropolis on the Pacific coast. There is not a man who owns a foot of real estate in this city, or who is engaged in any occupation, mercantile, professional or mechanical, who is not directly interested in the development of our mines, and who should not contribute something, be it ever so little, toward that object. In heavy investments, the chances of return, should, of course, be carefully calculated; but it should be reckoned the duty of every man who has now and then ten dollars to spare, to throw it out for the above purpose. It may never come back to him in the shape of dividends, but, like bread cast upon the waters of charity, it will most assuredly come back to him at some time and in some way, increased five, ten or an hundred fold. His lands will improve in value for the investment; his trade will increase by reason of the encouragement to labor, which his money has given, or, perchance, out of some ten or twenty investments, it may be, he will be so fortunate as to make *one* successful one, which will return him many times his entire outlay.

Some may call this gambling. Gambling it may be; but it is the *only* manner in which the mineral wealth of any country ever was or *can be* developed. It is no more gambling than is the act of the miner who takes his pick upon his shoulder and goes forth to the mines, working a week here and a week there, and so on, until the tenth or twentieth week, he strikes a valuable claim, and is many times paid for all his unsuccessful efforts. At the gaming table, when *one* wins, others lose to make up his winnings. When one wins in the mining field, nobody loses, but the entire community is benefitted to a greater or less extent by his winning.

In making these remarks we would not wish to be understood as approving of a species of "mining" so called, followed to a large extent upon the pave of Montgomery Street. We endorse legitimate mining only, and legitimate transactions in Stock only. Capital should look toward our mineral deposits, because we have abundant evidence that untold wealth exists there, which needs its aid for development as no other California interest does need it. Capital should be so directed, because there are mines near by us which have already produced the most extravagant returns, and we have every reason to believe that others, equally as rich are yet to be found. It should be so directed because mining is the legitimate and leading pursuit of California and the Pacific Slope, and the great predominating interest which we all believe is destined to be the chief agent in advancing this city, at an early day, to a position of wealth, importance and power, second to no city on the continent. Capital should be directed toward the mines because it is thence that the nation draws its sinews of strength, by which it is enabled to protect that capital. It is our mines of gold and silver, of iron and coal, that has enabled us to assume our present stand as the foremost people on the earth in every essential of national greatness. Let us then carefully foster our mining interest, for therein lies our chief source of power and wealth.

MINING ASSOCIATIONS.

Almost every branch of industry and business in the State, has its association for mutual aid and protection, except the mining interest. Commercial men have their Chambers of Commerce, Merchants have their exchanges, Farmers have their Agricultural Societies, Mechanics their Club Unions, etc.; but the miners, the largest, most important and most numerous class of our population, have no organization for either improvement or protection. The Calaveras *Chronicle*, in view of these facts, very properly suggests that it is time for the mining community to take this matter into serious consideration, and proceed, forthwith, into the organization of County Associations, who should send delegates to a State Council, the officers of which should be empowered to take a general oversight of the mining interests of the State, collect statistics, and, if deemed expedient, memoralize Congress on matters of general interest to the mining community. The idea is a good one. The County Associations would naturally become a medium for the interchange of thoughts and ideas, and the transmission of experiments and practical information from one portion of the State to the other. Whatever might be new in the important and difficult art of mining might be carefully gathered up by the local associations, and, through the State Council, be transmitted abroad and scattered, throughout the mines.

Every instance of the introduction of any new apparatus, every freshly noticed phenomenon, which may have the slightest bearing upon mining, and to which access can be had should be carefully observed and stored as a treasure, for the benefit of all. Our mining districts have been most sadly negligent in accumulating and recording the experience of duly qualified observers. The mining institutes of Europe have accomplished a vast amount of good in this way. Let us profit by their example. We should be "heirs of all ages," and of all nations, too, in becoming acquainted with the experience of the past; but, until progressive steps are observed and recorded, and the gradual acquisitions of practical men in our own midst are brought into regular method and system, we can hardly make good use of the inheritance to which we are the legitimate heirs.

Such an organization, conducted with a proper spirit and energy, would accomplish more, by the publication of the facts it might collect, than would any number of buncombe speeches delivered from the stump, or in our State or national halls of Legislation.

THE KEYSTONE CONCENTRATING WORKS.

We lately had the pleasure of visiting the Keystone Copper Concentrating Works, which have just been erected upon the mine at Copperopolis by the enterprising proprietors, Messrs. Downing Brothers. These works are the first of the kind built upon this Coast—in fact we believe that they are the pioneer works of this Continent—and must reflect great credit upon the enterprising spirit of the builders, as they will produce an entire revolution in the economy of copper mining upon this Coast.

The building is 200 feet long by 35 feet wide. The engine is sixty-five horse power, with 15-inch cylinder and 48-inch stroke, with an auxilliary which materially increases its efficacy. The boiler is twenty-five feet long and six feet in diameter, with return side flues, which give to the boiler about 600 feet of heating surface.

The ore for concentrating is carried from the main shaft to the mill by means of a railway and hoisted to the crusher room over an incline, where it falls into a bopper and passes between two heavy chilled cast iron rollers which are held close by pressure. The ore having passed through the crusher, falls into a revolving screen; all that is sufficiently fine sifts into sluice boxes and the coarser particles are returned by means of a raft wheel to be crushed over again, while the finest particles are carried into the concentrating house, where it goes through the various operations of concentrating by means of jiggers, ties, etc. The jiggers are five in number and are driven by a belt wheel from the engine shaft. The shaft which drives the jiggers is three inches in diameter and ninety feet long, and revolves 180 times per minute. The jiggers are composed of a tank about five feet long by two feet and a half wide, nearly filled with water; inside of these tanks, or boxes, is placed a sieve attached to the cam-shaft above. Into these sieves the ore is shoveled, and, by the quick up and down motion, the slate and other waste matter is lifted to the surface where it is easily scraped off and thrown away and the concentrated ore put into bags for shipping. The finer particles of ore are not placed in the sieves but are carried into sluice boxes where the debris is washed away. Only the second quality or waste ore, together with the finer particles, are treated in this manner and produce ore of about 20 per cent.

The machinery for these works was built by Messrs. Donahue, Booth, & Co., of this city, under the immediate control of Mr. Henry Tregellas, engineer.

Owen's River Salt Mine.—We have received a specimen of salt from a new discovery of this mineral in the Owen's River Valley, about five miles north of Camp Independence, and three miles west of Owen's River. The locality is near the town of San Carlos and may be readily ascertained by examining Ransom's Map of California with the above description. An assay of this salt has been made by Mr. H. G. Hanks of San Carlos, with the following result:—

Chloride of Sodium	79.592
Sulphate of Soda	5.424
Insoluble Matter	2.104
Water	10.200
Loss	2.680
	100.000

It will be seen from the above assay that this is a very pure article of salt. The discovery must soon become very valuable, as, we believe it is the only similar discovery, of any importance yet made in that vicinity. We understand that the discoverers are about incorporating, under the general Act of this State.

Employment of Women in the English Mines.—Miss Emily Faithful recently read a paper before a meeting of the Social Science Congress of England, on "The Useful Employments in which Women are now Engaged." In the course of this paper it was stated that seven thousand women were employed as miners at the Devon and Cornish mines; hundreds as laborers in coke works in Devonshire. With reference to agricultural laborers, it was stated that on the large dairy farms of Cheshire, the medical reports showed that dairy-women constituted a special class of patients, from maladies arising from over-fatigue and insufficient rest. Allusion was made to the numerous employments in which women are engaged, and few, if any, escaped the reprobation of the paper. Fish-hawking, work in cotton-mills, and even in paper-mills, were shown as unfit for women. In some cotton-mills women and girls are obliged to stop their noses with cotton to prevent slow but certain suffocation.

Niagara Eclipsed.—The Denver *News*, of Nov. 28, gives a description of a newly discovered waterfall on the Lewis Fork of the Columbia river, which threatens to eclipse the far famed Niagara. The entire volume of the river pours over a precipice 198 feet high. The Lewis Fork is equal in size to the Niagara River and the fall is 38 feet higher.

Mining in Australia.—A party of Chinamen recently bought a lot of tailings for $75, from which they realized 100 ounces of gold and thirty-seven pounds of quicksilver. It would appear from the above that the miners of Australia do not work their ground very carefully.

Stock Reports.

SAN FRANCISCO STOCK BOARDS.

Sales by the San Francisco Stock and Exchange Board, and the San Francisco Board of Brokers.

[Revised and corrected for the Mining and Scientific Press.]

MONDAY, DECEMBER 28, 1863.

S. F. S. & E. BOARD.

10 shares Sierra Nevada at $82½, per share.
16 shares Adriatic at $6 per share.
10 shares Wide West at $5t per share, buyer 30 days.
5 shares Wide West at $17 per share.
25 shares Wide West at $20 per share, b 30.
10 shares Wide West at $18 per share.
30 shares Utah at $26 per share, b 30.
10 shares Utah at $25 per share, b 30.
20 shares Utah at $23 per share, b 30.
35 shares Golden Swan at 35 per share, seller 5 days.
10 shares Golden Swan at $37½ per share, b 30.
10 shares North American at $75 per share.
20 shares Lady Bryan at $40 per share, b 30.
5 shares Lady Bryan at $46 per share.
45 shares Lady Bryan at $47½ per share.
150 shares Lady Bryan at $52½ per share, b 30.
100 shares Lady Bryan at $60 per share.
105 shares Lady Bryan at $50 per share.
100 shares Lady Bryan at $52½ per share, b 30.
30 shares Burning Moscow at $145 per foot.
10 shares Burning Moscow at $150 per foot.
10 shares Burning Moscow at $160 per foot, b 30.
20 shares Burning Moscow at $160 per foot, b 12.
20 shares Burning Moscow at $163 per foot, b 20.
20 shares Burning Moscow at $165 per foot.
60 shares Burning Moscow at $175 per foot, b 30.
4 shares Burning Moscow at $170 per foot.
10 shares Burning Moscow at $180 per foot.
20 shares Burning Moscow at $182½ per foot.
140 shares Burning Moscow at $185 per foot, b 30.
20 shares Burning Moscow at $190 per foot, b 30.
10 shares Burning Moscow at $182½ per foot.
20 shares Burning Moscow at $190 per foot, b 30.
50 shares Burning Moscow at $192½ per foot, regular way.
10 shares Burning Moscow at $185 per foot, b 5.
10 shares Burning Moscow at $200 per foot, s 30.
20 shares Burning Moscow at $185 per foot.
4 shares Overman at $160 per share.
25 shares Hurnside at $33 per share, b 30.
16 shares Chas. Cany at $4 per share.
20 shares Bullion, G. H., at $60 share.
7 shares Real del Monte at $325 per share, s 5.
25 shares Ballie at $100 per share, b 30.
25 shares Ballie at $95 per share.
60 shares Ophir at $1575 per foot.
24 shares Ophir at $1575 per foot.
12 shares Ophir at $1584 per foot.
60 shares Ophir at $1550 per foot, s 10.
60 shares Ophir at $1550 per foot, s 10.

AFTERNOON SESSION.

50 shares Desert at $13 per share.
20 shares Desert at $13 per share.
3 shares North American at $73 per share.
10 shares North American at $74 per share.
5 shares North American at $75 per share.
25 shares Lady Bryan at $46 per share, s 30.
10 shares Lady Bryan at $48 per share.
50 shares Lady Bryan at $50 per share, b 30.
50 shares Lady Bryan at $47 per share, r w.
10 shares Nevada, Justice Grand, at $75 per share, 90 days.
10 shares Utah at $21 per share, b 30.
5 shares Overman at $490 per share.
10 shares Wide West at $47½ per share.
20 shares Burning Moscow at $165 per foot.
5 shares Burning Moscow at $170 per foot, b 30.
60 shares Ophir at $1560 per foot, s 10.

S. F. B. OF BROKERS.

10 shares Omaha, copper, at $12½ per share.
10 shares Baker, copper, at $110 per share.
10 shares Baker, copper, at $120.
40 shares Baltimore American at $27½ per share, b 30.
10 shares Golden Swan at $34½ per share.
20 shares Golden Swan at $37 per share, b 30.
20 shares Dacotah, R. R., at $8½ per share.
10 shares Rising Sun, H, at $17 per share.
10 shares Desert at $12½ per share.
10 shares Bankers, G. H., at $18½ per share.
80 shares La Providencia, Copala, at $1 per share.
50 shares Baron Humboldt, H., at $8½ per share.
Dividend for December on 10 feet Gould & Curry at $145.
Dividend for December on 100 feet Hurmond, El Do Co., at $2½.

TUESDAY, DEC. 29.

S. F. S. & E. BOARD.

10 shares Slate Telegraph at 25½ per share.
10 shares Sierra Nevada at $82½ per share.
10 shares North American at $75 per share.
10 shares North American at $73 per share.
50 shares Desert at $12 per share.
35 shares Lady Bryan at $46 per share, r w.
25 shares Lady Bryan at $45 per share.
20 shares Lady Bryan at $42½ per share, s 30.
5 shares Lady Bryan at $44 per share.
10 shares Lady Bryan at $49 per shares, b 30.
10 shares Lady Bryan at $44 per share.
10 shares Lady Bryan at $44½ per share.
15 shares Lady Bryan at $45 per share.
40 shares Golden Swan at $30 per share.
10 shares Utah at $21 per share.
20 shares Utah at $30 per share.
17½ shares Buckeye at $11 per share.
10 shares Buckeye at $12½ per share.
5 shares Baltimore American at $27½ per share.
5 shares Desert at $12 per share.
2 shares Melones at $67½ per share.
10 shares Melones at $72½ per share, b 30.
12 shares Ophir at $1560 per foot, s 30.
36 shares Ophir at $1560 per foot.
40 shares Burning Moscow at $160 per foot.
40 shares Burning Moscow at $167½ per foot, b 30.
20 shares Burning Moscow at $167 per foot, b 30.
20 shares Burning Moscow at $165 per foot, b 30.
20 shares Burning Moscow at $160 per foot.
6 shares Burning Moscow at $162½ per foot.
20 shares Burning Moscow at $155 per foot, s 60.
20 feet Ophir dividends at $40 per foot, for December.
180 feet Ophir dividends at $35 per foot, for December.
220 feet Ophir dividends at $30 per foot, for December.
10 feet Ophir dividends at $29 per foot, for December.
10 feet Ophir dividends at $27 per foot, for December.
20 feet Ophir dividends at $27½ per foot, for December.
10 feet Ophir dividends at $26 per foot, for December.
50 feet Ophir dividends at $27½ per foot for December.
60 feet Ophir dividends at $25 per foot, for December.
10 feet Gould & Curry Dividends at $145 per foot, for December.

AFTERNOON SESSION.

10 shares Lady Bryan at $42 per share.
20 shares North American at $77½ per share, b 30.
10 shares North American at $76 per share.
60 shares North American at $73 per share.
60 shares North American at $74 per share, b 30.
10 shares North American at $74 per share.
2 shares Wide West at $47½ per share.
14 shares Bajazet at $30 per share.
10 shares Bodie Bluff at $1 per share.
25 shares Bodie Bluff at 90c. per share.
50 shares Utah at $20 per share, b 30.
10 shares Burning Moscow at $167½ per foot, b 30.
80 feet Ophir dividends at $27 per foot, for December.

S. F. B. OF BROKERS.

10 shares Omaha, copper, at $13½ per share.
83½ shares La Providencia, Copala, at $1 per share.
10 shares Blue Ledge, El Dorado Co., at $7½ per share.
10 shares Baltic at $100 per share, b 30.
27 shares Revenue, R. R., at $15 per share.
5 shares Lady Bryan at $37 per share.
10 shares Buckeye at $13 per share.
20 shares Gilson, S. V., at $7½ per share.

WEDNESDAY, Dec. 30, 1863.

S. F. S. & E. BOARD.

15 shares Spring Valley Water at 53 per cent on amount paid in.
50 shares Adriatic at $7½ per share, b 30.
20 shares Wide West at $47½ per share.
2 shares Wide West at $19 per share.
15 shares North American at $77 per share.
55 shares North American at $74 per share.
10 shares North American at $75 per share, b 30.
20 shares Gold Canon at $18 per share.
15 shares Silver Hill at $13 per share.
300 shares Buckeye at $13 per share.
10 shares Sierr Nevada at $82½ per share, b 30.
2 shares Overman at $490 per share.
20 shares Lady Bryan at $40 per share.
10 shares Lady Bryan at $39 per share.
50 shares Lady Bryan at $40 per share, b 30.
10 shares Lady Bryan at $38 per share.
20 shares Burning Moscow at $150 per foot.
30 shares Burning Moscow at $155 per foot.
50 shares Burning Moscow at $140 per foot.
20 shares Burning Moscow at $185 per foot.
20 shares Burning Moscow at $182½ per foot.
12 shares Ophir at $1500 per foot, s w.
12 shares Ophir at $1515 per foot.
12 shares Ophir at $1510 per foot.
12 shares Ophir at $1500 per foot, s 10.
72 shares Ophir at $1500 per foot.
12 shares Ophir at $1520 per foot.
30 feet Ophir divd's at $25 per foot, Dec.
10 feet Ophir divd's at $25 per foot, Dec.

AFTERNOON SESSION.

1 share Uncle Sam at $475 per share.
10 shares North American at $76 per share, b 30.
10 shares North American at $75 per share, b 30.
10 shares North American at $73 per share.
10 shares Caledonia Tun. at $32 per share.
10 shares Caledonia Tun. at $31 per share.
3 shares California Steam Navigation at $49¼
3 shares California Steam Navigation at $50.
15 shares Burnside at $12½ per share.
10 shares Utah at $21 per share.
50 shares Josephine Coso at $3½ per share.
200 shares Lady Bryan at $37½ per share, s 30.
20 shares Lady Bryan at $37½ per share.
51 shares Lady Bryan at $38 per share.
70 shares Lady Bryan at $39 per share.
5 shards Imperial at $100 per foot.
12 shares Ophir at $1500 per foot.
100 shares Burning Moscow at $135 per foot.
2 shares Burning Moscow at $138 per foot.
20 shares Burning Moscow at $140 per foot.
40 shares Burning Moscow at $150 per foot.
2 shares Burning Moscow at $140 per foot.

S. F. B. OF BROKERS.

10 shares Blue Ledge, El Do eo at $7⅛
5 shares Dancy at $75.
5 shares Dancy at $75.
10 shares Oneida G. H at $18.
10 shares Crockett Cons at $26.
15 shares Buckeye, V. at $12.
50 shares Chukuluks and Western Summit at $15.
4 shares Gould & Curray at $1950 per foot.
5 shares Princess, El D Canon, at $20.
24 shares San Jose, Mex, at $18.
Divid on 100 shares Harmont for January at $3.
Divid on 200 shares Harmon for December at $2½.

THURSDAY, Dec. 31, 1863.

5 shares San Francisco City W W $49¼ per cent.
5 shares Wide West at $18 per share.
10 shares Lady Bryan at $39 per share.
10 shares Lady Bryan at $37 per share.
20 shares Lady Bryan at $37 per share.
30 shares Lady Bryan at $36 per share.
70 shares Lady Bryan at $38 per share.
10 shares Lady Bryan at $38½ per share.
90 shares Lady Bryan at $38 per share, b 30.
75 shares Lady Bryan at $38¾ per share.
3 shares Lady Bryan at $39 per share.
25 shares Lady Bryan at $40 per share, b 30.
50 shares Lady Bryan at $38 per share, s 30.
10 shares Lady Bryan at $38 per share.
25 shares Lady Bryan at $41 per share.
20 shares Lady Bryan at $37½ per share.
30 shares North American at $70 per share.
19 shares North America at $70 per share, b 30.
8 shares North American at $66 per share.
16 shares North American at $67 per share.
15 shares Harmon, El D co, at $25 per share.
20 shares Bajazet at $30 per share.
5 shares Melones at $69 per share.
10 shares Utah at $21 pe. share, b 30.
3 shares Antelope at $175 per share.
10 shares Silver Hill at $14 per share.
10 shares Chas. Caney at $5 per share.
50 shares Baltimore American at $67 per share.
5 shares California Steam Navigation at $50.
4 shares Gould & Curry at $5003 per foot.
4 shares Choller at $650 per foot.
8 shares Chollar at $650 per foot.
20 shares Burding Moscow at $140 per foot.
20 shares Burning Moscow at $145 per foot, b 30.
20 shares Burning Moscow at $147 per foot, b 30.
20 shares Burning Moscow at $148 per foot, b 30.
40 shares Burning Moscow at $148 per foot.
60 shares Burning Moscow at $137½ per fnot.
10 shares Burning Moscow at $145 per fnot, b 30.
16 shares Burning Muscow at $137 per foot.
12 shares Ophir at $1500 per foot.
20 feet Ophir divd's at $25 per foot, Dec.

AFTERNOON SESSION.

25 shares Lady Bryan at $39 per share.
25 shares Lady Bryan at $38 per share, s 30.
18 shares Lady Bryan at $40 per share, b 30.
10 shares Lady Bryan at $38½ per share.
20 shares Lady Bryan at $41 per share, b 30.
60 shares Lady Bryan at $38½ per share, s 30.
20 shares Lady Bryan at $38½ per shares, s 30.
10 shares Lady Bryan at $39½ per share.
30 shares Lady Bryan at $40 per share.
10 shares Utah at $21 per share, b 30.
4 shares Wide West at $18 per share.
30 shares Eclipse, R. R. at $12½ per share.
10 shares Burning Moscow at $137½ per foot.
10 shares Burning Moscow at $136 per foot.
10 shares Burning Moscow at $146 per foot, b 30.
10 shares Burning Moscow at $144 per foot, b 30.
10 shares Burning Moscow at $1386 per foot.
10 shares Burning Moscow at $145 per foot, b 30.
20 shares Burning Moscow at $137½ per foot,
4 shares Burning Moscow at $138 per foot.
2 shares Burning Moscow at $140 per foot.
50 shares Burning Moscow at $137½ per foot.
1 shade Savage at $4725 per foot, s 30.
1 share Savage at $2700 per foot.
12 shares Ophir at $1490 per foot.

S. F. B. OF BROKERS.

20 shares Baker, copper, at $130.
10 shares Burning Moscow at $142½ per foot.
10 shares Baltimore Mouser at $27.
30 shares Baltimore American at $30, b 30,
5 shares New York Consolidated at $14½.
5 shares New York Consolidated at $16.
10 shares New York Consolidated at $18, b 30.
5 shares Harmon, El D co, at $35, b 30.
5 shares Harmon, El D co, at 30.
5 shades Harmon, El D co, at $37½, b 30.
5 shares Hermon, El D co, $39, b 30.
15 shares Gilson, S V, at $7½.
10 shares Dacotah, R R, at $8½.
10 shares Spanish No 2 at $10.
10 shares Silver Eagle, N V, at $4.
20 shares St. George, Amador co, at $3½.

Models.—Inventors will please attach to all models sent to us their names and address, in a legible, permanent form. This will avoid confusion and prevent mistakes.

THE SAN FRANCISCO STOCK AND EXCHANGE BOARD.

REPORT OF PRICES BID AND ASKED.

MONDAY, DECEMBER 28, 1863.

MISCELLANEOUS.	Bid.	Asked
State Telegraph	24	—
S. Fran. Gas Co.	—	85
WASHOE STOCKS.		
Ophir, ₱ ft	$1550	1560
Gould & Curry	4800	5000
Chollar	650	700
Potosi	1000	1200
Hale & Norcross	900	1025
Sierra Nevada	81½	100
Daney	60	—
Burning Moscow	185	185
Chas. Cany	4	5
Iowa	—	60
El Dorado	—	60
Norton	—	8
Burnside	10	13
Adriatic	4	5
Brennan	10	13
Pride of the West	45	55
Imperial	80	125
Cedar Hill inn. ₱ sh.	—	3
Mt Davidson inn ₱ s.	—	3

WASHOE STOCKS.	Bid.	Asked
Manhattan	—	8
Lady Ellen	—	15
ESMERALDA.		
Wide West	$47½	48
Antelope	115	160
Real del Monte	325	325
Utah	18	20
Falls of Clyde	—	3
Bamboo	10	30
COSO.		
Josephine ₱ share	$3½	—
Willow Springs	—	3½
COPPER.		
Napoleon ₱ sh	$45	52
CALIFORNIA.		
Laurel Hill	—	6
Rhodes Diggings	6	10
Fellowes	—	90
HUMBOLDT.		
De Soto	$20	30
Great Basin	—	80c

TUESDAY, DECEMBER 29.

WASHOE STOCKS.	Bid.	Asked
Ophir, ₱ ft	$1550	1560
Gould & Curry	4950	5300
Chollar	650	685
Potosi	1075	1250
Hale & Norcross	880	1000
Sierra Nevada	82½	85
Burning Moscow	156	162½
North Potosi	—	34
El Dorado	35	50
Norton	5	6
Burnside	11	14
Adriatic	6	7
Pride of the West	48	53
Imperial	80	110
Mt Davidson ll ₱ s	—	3
Manhattan	—	8
Seneca	—	10
HUMBOLDT.		
De Soto	20	28

ESMERALDA.	Bid.	Asked
Wide Wes	$47	49
Antelope	122½	140
Real Del Monte	—	340
Utah	18	20
Falls of Clyde	—	3½
Bamboo	15	27½
Crocket	—	27½
COSO.		
Sosephine, ₱ sh	3½	4½
Willow Springs	1	2½
Coso	—	8
COPPER.		
Napoleon ₱ sh	46	50
Josephine	—	8
CALIFORNIA.		
Rhodes Diggings	6	10
Eureka	25	42½
Fellowes	35	80

WEDNESDAY, DECEMBER 30.

WASHOE STOCKS.	Bid.	Asked
Ophir, ₱ ft	$1500	1505
Gould & Curry	4950	5020
Savage	2750	2800
Chollar	610	700
Potosi	—	1300
Hale & Norcross	—	1000
Sierra Nevada	82¼	87½
Daney	65	75
Burning Moscow	131	135
North Potosi	26	28
Chas. Cany	4	5
Iowa	—	50
El Dorado	35	50
Norton	4	—
Burnside	10½	12
Adriatic	6	7½
Pride of the West	51	67½
Imperial	—	120
Cedar Hill ll. ₱ sh	1	3
Mt Davidson ll. ₱ sh	2	3
Crown Point	—	900
Manhattan	—	8

ESMERALDA.	Bid.	Asked
Wide West	$47½	49
Antelope	122½	—
Utah	18	20
Silver Hill	12½	15
Nevada	—	6
Falls of Clyde	—	2½
Sunbeam, 1st S We	—	2½
Gt Western Ti	—	50c
Crocket	—	30
COSO.		
Josephine, ₱ sh	3	—
Coso	—	8
COPPER.		
Napoleon, ₱ sh	46	50
Josephine	—	8
CALIFORNIA.		
Eureka	32½	42
Fellowes	—	70
HUMBOLDT.		
De Soto	20	30
Great Basin	—	80c

THURSDAY, DECEMBER 31.

WASHOE STOCKS.	Bid.	Asked
Ophir, ₱ ft	$1490	1500
Gould & Curry	5000	5025
Savage	—	2800
Chollar	640	640
Potosi	1075	1250
Hale & Norcross	—	1000
Sierra Nevada	85	100
Daney	65	70
Burning Moscow	136	138
North Potosi	—	26
Chas. Cany	5	10
Iowa	—	40
El Dorado	32½	50
Norton	—	6
Burnside	10½	12
Adriatic	6	7
Pride of the West	51	70
Mt Davidson ll ₱ s	2	—
Manhattan	—	8
Seneca	—	10
ESMERALDA.		
Wide West	48	49

ESMERALDA.	Bid.	Asked
Antelope	$175	200
Utah	18	24
Silver Hill	14	15
Jenny Lind	—	6
Falls of Clyde	—	3
Bamboo	16	30
Crocket	10	30
COSO.		
Josephine, ₱ sh	3	4½
Willow Springs	2	3
Coso	—	10
COPPER.		
Napoleon, ₱ sh	40	46
Josephine	—	9
CALIFORNIA.		
Laurel Hill	—	6
Rhodes Diggings	6	10
Eureka	40½	42½
Fellowes	—	80
HUMBOLDT.		
De Soto	20	25

NEW INCORPORATIONS.

Companies have filed their certificates of incorporation in the County Court of San Francisco during the past week as follows:—

ASTOR LEDGE AND COMPANY.—Location, Big Creek District, Lander Co., N. T. Capital stock, $320,000, in shares $200 each. Trustees: Benjamin F. Dale, W. M. Chapman, D. C. Booth, A. W. Newby and D. R. Brown.

WASHINGTON, VULCAN AND GRACE DARLING CONSOLIDATED GOLD AND SILVER MINING COMPANY.—Location, Chelon District, Monterey Co., Cal. Capital stock, $342,000, in shares of $200 each. Trustees: R. D. Smith, A. H. Penmoyer, Martin White, W. T. James and M. Grey.

NELSON CONSOLIDATED GOLD AND SILVER MINING COMPANY.—Location, Gold Hill, Storey Co., N. T. Capital stock, $120,000, in shares of $100 each. Trustees: Chas. J. Janson, Chas. J. Nelson, Andrew Lawson, John Peterson and Thos. P. Carroll.

CARRIE ROBINSON GOLD AND SILVER MINING COMPANY.—Location, Mountain Chief Ledge, Reese River, N. T. Capital stock, $80,000, in shares of $100 each. Trustees: Chas. A. Uhrig, O. T. Willey, A. M. Hay, M. L. Boling and M. Thompson.

MART CARROLL GOLD AND SILVER MINING COMPANY.—Location, Mart Carroll Ledge, Reese River, N. T. Capital stock, $100,000, in shares of $100 each; same Trustees.

CONSTITUTIONAL GOLD AND SILVER MINING COMPANY.—Location, Democratic Ledge, Reese River, N. T. Capital stock, $130,000, in shares of $100 each: same Trustees.

MOUNT VERNON TUNNEL COMPANY.—Location, Smoky Valley District, Lander Co., N. T. Capital stock, $300,000, in shares of $100 each. Trustees: J. W. Taylor, E. Hindman and J. W. Carrick.

NEW ENGLAND CONSOLIDATED GOLD, SILVER AND LEAD MINING COMPANY.—Location, Cataline Mining District, Los Angeles Co., Cal. Capital stock, $180,000, in shares of $10 each. Trustees: Jacob Seidelcher, Stephen A. Keene, J. E. Bryant, Isaac Michael and B. Adler.

The Black Ledge Gold and Silver Mining Company filed its certificate of increase of capital stock from $500,000 to $600,000.

PEOPLE'S GOLD AND SILVER MINING COMPANY.—Location, Monitor District, Amador county. Capital stock, $500,000, in shares of $5 each. Trustees: Wm. Hefley, John B. Pilkington, Frank S. Alling, Samuel Newell and Henry A. Reed.

CONSOLIDATED CHAMPION MINING COMPANY.—Location, San Bernar-

dino District, Tulare or Los Angeles county. Capital stock, $300,000 in shares of $100 each. Trustees: L. C. Matthews, John M. Horner, Chas. V. Stuart, Thos. Dorland and Willard Whipple.

Empress Gold and Silver Mining Company.—Location, Gold Hill District, N. T. Capital stock, $520,000, in shares of $200 each. Trustees: R. J. Vandewater, Wm. Thomson, Jr., Geo. Hearst, B. Bellean and John S. Dudley.

Cornucopia Gold and Silver Mining Company.—Location, Lander county, N. T. Capital stock, $200,000, in shares of $100 each. Trustees: Robert Bartusly, R. W. Fishbourne and Henry Bush.

San Fernando Mining and Tunnel Company.—Location, Reese River District, Lander county, N. T. Capital stock, $160,000, in shares of $100 each. Trustees: Wm. Neely Johnson, George Forrest Walter and D. M. Harwood.

Lancaster Gold and Silver Mining Company.—Location, Reese River, Lander county, N. T. Capital stock, $80,000, in shares of $100 each. Trustees: J. R. Linton, Joseph Healy and Wm. Stanwood.

Walipi Gold and Silver Mining Company.—Location, San Francisco District, Arizona Territory. Capital stock, $240,000, in shares of $200 each. Trustees: E. S. Mason, C. H. Doriot and Cyrus Holloway.

North Star Mining Company.—Location, Santa Catalina District, Los Angles county, Cal. Capital stock, $380,000, in shares of $100 each. Trustees: J. B. Knapp, Isaac M. Merrill, H. Bush, William J. Woodley and Thomas Stackpole.

Rose Matilda Mining Company.—Location, capital stock and Trustees, same as above.

Charter Oak Mining Company—Location and Trustees same as above. Capital stock, $260,000, in shares of $100 each.

Diamond Mining Company.—Location and Trustees same as above. Capital stock, $240,000, in shares of $100 each.

Legal Tender Silver Mining Company.—Location, Amador District, Lander county, N. T. Capital stock. $700,000, in shares of $500 each. Trustees: W. J. Smith, A. J. Tobias, F. R. Nicholson, S. H. Towns, W. C. Gray.

NEW PUBLICATIONS.

The American Exchange and Review—Whiting & Co. Publishers, Philadelphia.

This Exchange and Review is a massive publication, devoted to useful knowledge and general literature. It is a work of much practical ability, embracing in its table of contents treatises of mining, manufactures, patents, trade, commerce, social and economical science, etc. "Utility, Profit and Progress" is its motto.

Silliman's Journal of Art and Science—New Haven, Conn.

We have received the November number of this standard publication. Its table of contents is varied and interesting, embracing a wide range of topics of interest and importance to the scientific world. This journal is published in numbers of 152 pages, every other month, forming two volumes per annum of 450 pages each. Terms—$5 per annum, in advance.

Our New Agate Type was purchased of Messrs. Faulkner & Son, agents of James Connor & Sons, New York. We have had the pleasure of donning a "new dress" of their type several times during the past twelve years. We desire no more liberal men in trade than Messrs. Faulkner & Son, and our readers will ask for no more handsomer type to read than that presented in to-day's issue.

Special Notices.

The Publication of Mining Notices in the Mining & Scientific Press obtains for them a more general circulation, among parties directly interested, (in this city and throughout the mining districts of the coast, than can be secured through any other medium. State laws require their publication but once a week, and Secretaries and Trustees can make a material saving of costs to stockholders by ordering their advertisements inserted in the journal most properly entitled to receive their patronage—the weekly Mining and Scientific Press.

Information Furnished.—Miners, Mechanics and others desiring information upon any subject relating to inventions and discoveries, or the principles of mining, mechanism, chemistry or natural sciences, by addressing us will receive answers to their enquiries, either through the columns of the Press—or by private letter, in accordance with the best judgment and information we can obtain.

In Justice to Readers, a limited space only will be allowed for advertising, in the Press. Patrons who find their advertisements contracted in length, will please bear this in mind, and also the fact that our advertisng type is small and our columns unusually wide.

San Francisco Mechanics' Institute.—Organized March 29th, 1855. Regular meetings on the first Friday evening of each month. Building of the Association, south side of California Street, between Montgomery and Kearny. Library and Reading Room open from 8 A. M. to 10 P. M. President, Joseph Britton; Secretary and Librarian, P. B. Dexter.

Mercantile Library Association.—Rooms Northeast Corner of Bush and Montgomery Streets. Library open every day throughout the year from 9 A. M. to 10 P. M., excepting Sundays and legal holidays. Reading and Chess rooms open from 8 A. M. to 11 P. M. President, Jacob Unkenhill; Librarian, H. H. Moore.

California State Library.—Rooms corner of J and Second streets, Sacramento. Hours from 9 A. M. to 10 P. M., during the session of the Legislature, and from 9 A. M. to 4 P. M. at other times. Free to all. W. Straton, State Librarian.

German Society of Natural Sciences.—Meetings held every Wednesday evening, at their Rooms 517 Clay Street. President, Dr. J. N. Eckel; Secretary, J. A. Bauer; Librarian, A. E. Koels.

Academy of Natural Sciences.—Rooms 622, Clay Street. President, Leander Ransom; Corresponding Secretary, W. O. Ayres.

San Francisco Stock and Exchange Board.—Rooms, Brokers' Block, Montgomery street. President, J. B. E. Cavalier; Secretary, Franklin Lawton.

San Francisco Board of Brokers.—Rooms 430 Montgomery Street. President, Samuel Purdy; Secretary, M. G. Elmore.

Pacific Board of Brokers.—Rooms on the corner of Washington and Montgomery Streets, San Francisco. President, W. P. Deneckla; Secretary, J. H. Gager.

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How to make your Remittances.—In most of the mining towns, brokers will furnish checks on San Francisco at par, (or at a very slight advance) to those who wish to pay us for subscriptions, advertising, mining blanks, etc. When it is more convenient, money may be remitted by mail at our risk if the parties sending will register their letters. Money sent by mail is seldom lost if properly enclosed. An excellent method is that of opening the layers of a card, placing the coins between the layers and sealing the edges together.

The Old and New Volume.

To perfect the desired improvements in our new series of the Mining and Scientific Press, it becomes necessary to commence a new volume with the year, and we are therefore obliged to close up Vol. VII with the present issue. By enlarging the paper, we have 832 pages per annum, instead of 416, as formerly, and for convenience in binding we reduce the term of our volume to six months, the customary period for such publications. No. 1 of the 1st volume of the Press was issued by G. H. Winslow & Co., May, 24th 1860. Although the individual length of the intervening volumes has been somewhat irregular, the average period for each figures not far from six months, and rating the seven volumes thus proves very nearly the actual age of the paper. Our receipts, recently given for subscriptions, have been dated by volumes and Nos. To prevent misapprehension on the part of subscribers, we will state that the change of volume alluded to, makes no difference in the *time* of the expiration of their subscriptions. In future there will be but 26 Nos. in each volume. There being but nine numbers issued in Vol. VII, (instead of 52, as contemplated,) those holding receipts to any No. beyond No. 9, of Vol. VII, will receive credit on Vols. VIII, IX, or X, to such date as the No. to which their receipt shows payment would have been issued if no change had been made. For instance, a subscriber holding a receipt given December 1st, 1863, running from No. 5 of Vol. VII to No. 5 of Vol. VIII, will be duly credited, by the new order of volumes, to No. 12 of Vol. IX, which will be published during the last week in November, 1864, at which time he will have received 4 Nos. printed in Vol. VII, (from No. 5 to 9,) the 26 Nos. contained in Vol. VIII, and 22 Nos. of Vol. IX—making in all 52 copies.

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Patent Office Department.

Recent American Patents.

[Under the above head we shall give a weekly list of all such patents issued, as may be of any special interest; particularly to Californians. All patents, of whatever nature, issued to residents of the Pacific Coast will be included in the list.]

The following are some of the most important inventions and improvements for which Letters Patent have been recently issued from the United States Patent Office:—

LATE CALIFORNIA INVENTIONS.

FIRE-PROOF PAINT.—G. W. Powell, of Chinese Camp, Cal., has secured Letters Patent for a Compound for making Fire Proof Paint.

IMPROVED AMALGAMATOR.—This invention consists of an improvement in that class of Amalgamators in which the finely pulverized ore is intimately mixed with the mercury by the action of a rotary muller in a suitable pan. The invention consists in imparting to the mullers, which are attached to the arms extending from a common central arbor, a compound rotary, or a sun and planet motion, by the action of a central stationary-toothed rim on pinions secured to the axles of the mullers in such a manner that by the rapid rotary motion of each muller around its individual axis, that portion of the ore which may be exposed to the action of said muller, is brought into intimate contact with the mercury, and by the common rotary motion of the several mullers around the central arbors, the entire contents of the pan are successively and repeatedly exposed to the action of each muller. The invention contains a set screw on one side and a hinge on the opposite side of the pan, by which its inclination can be adjusted at pleasure. Thomas Hansbrow, of Sacramento, Cal., is the inventor.

BOMB LANCE.—An improved bomb lance, having the perforated fire proof, or non-combustible diaphragm, and a wooden or combustible fuse plug placed within it, and arranged and combined with the fuse and the guard chamber thereof, substantially as described in the application. Oliver Allen, of San Francisco, Cal., inventor.

MACHINE FOR GRINDING ORES AND AMALGAMATING THE METALS.—The object of this invention is to obtain a device by which gold and silver ore, reduced to a pulp in a stamp mill, may be further reduced, and the metal it contains thouroughly amalgamated. We are unable, without drawings, to give any intelligible description of this invention. John O. Randall, Canon City, Colorado Territory, is the inventor.

MISCELLANEOUS PATENTS.

LOOP CHECK FOR SEWING MACHINES.—The object of this invention is to obtain a loop check which will answer equally well for all kinds of work, and which can be applied, at small expense, to any machine now in use. It consists in a check composed of a tooth of steel, or other metal, attached to the bobbin ring, in such position that its point is almost directly in line with the needle's motion, and arranged in such a manner as to allow the loop to pass off in a backward direction. J. B. Seer, of Chicago, is the inventor.

NEWSPAPER FILE.—This invention consists in making one or both of the rods largest in the middle, and tapering gradually toward one or both ends, so that when they are clasped together at the ends, they act as springs on the paper between them. J. H. Atrooler, Providence, is the inventor.

TRAVELING INVALID CHAIR, an improvement on similar conveniences. The chair may be readily placed at any inclination or extension desired. The chair may be entirely propelled and guided by an arrangement of driving wheels. Charles L. Bander, Cleveland, Ohio.

AN INVALID BEDSTEAD is enumerated among patents issued for week ending Oct. 27. A decided improvement is claimed for this invention over any heretofore made, in auxiliary head and foot boards, the mode of making and applying the sacking, and operating the bedstead, generally, and in the particular combination of the tipping hooks, their mechanical equivalents. Moses Johnson, Colebrook, N. H.

SHIRT BOSOM.—J. A. Pease, of New York city, claims the invention of a shirt bosom, of water proof enamel, which may be easily kept in place by springs, etc. An invention disastrous to the business of a large number of the "celestial" residents of this and other California cities.

WATER WHEEL.—This invention consists in a novel manner of applying the water to the wheel, whereby the the water is made to strike each and every bucket in a solid, unbroken sheet or column over the entire circumference of the wheel and to act with nearly equal force whether the gate be wholly or partially open.

The Mining and Scientific Press Patent Agency.

OFFICE, 57, GOVERNMENT HOUSE, SAN FRANCISCO.

Information About Obtaining Patents.

The Patent Law Amendment Act, of March 4th 1861, and March 3d 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent, And if the final fee for such patent be not paid within the said six months, the patent shall be witheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent? A positive answer to this question is only to be had by presenting a formal application for patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the MINING AND SCIENTIFIC PRESS. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Preliminary Examinations.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search, made at the U. S. Patent Office, Washington, through the medium of our associate in that city, to ascertain whether among all the patents and models there stored, any invention can be found which is similar in character to that of the applicant. On the completion of this special search we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollars. This search, though it involves the expense just named, will usually prove satisfactory. If the same device has been before patented, the time and expense of constructing models, preparing documents, etc., will in most cases be saved; if the invention has been in part patented, the applicant will be enable to modify his claims and expectations accordingly. Many other obvious advantages attending the Preliminary Examination; although the strictest search does not always enable the applicant to know positively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publication; or some other person has been previously rejected on an analagous device; or some other invention for a similar purpose, but partially resembles the applicant's in its construction; or the Government makes an unjust or uncommon decision. Against none of these contingencies does the Preliminary Examination provide; it will, however, generally inform the applicant whether an improvement similar to his and used for the same purpose has ever been patented or not in this country.

Persons desiring the Preliminary examination are requested to remit the fee ($10), and furnish us with a sketch and description of the invention.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entities the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian, Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of governments that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues.—If the application is rejected we cause a thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have excess to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client. For this service we make no charge. If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The laws requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary It should be sufficiently perfect, however, to show, with clearness the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: DEWEY & Co., Mining and Scientific Press, rooms 56 and 57, Government House, corner of Sansome and Washington Streets, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail.—The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due, and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued, the applicant will be notified to remit the last installment of the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Return of Models.

Under the new law, if the applicants case has been rejected he is entitled to withdraw his model from the Patent Office.

This law applies to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expense

Application for Patents, Designs, Trade-Marks, Labells, etc.

Under the new law patents may be taken out for any new form of any article, also for tools, patterns, castings, machine-frames, stove-plates, borders, fringes, all new designs for printing, weaving or stamping upon silks, calicoes, carpets, oil-cloth, prints, paper-hangings, and other articles. Trade-marks, labels, envelopes, boxes and bottles for goods, may also be patented; likewise all works of art, including prints, paintings, busts, statues, bas-relief, or compositions in alto, or basso relievo, new dies, impressions, ornaments to be placed upon any article of manufacture, architectural work, etc.

Our facilities for the prompt preparation and securing of patents are of the most extensive character and our charges are very moderate.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the tariff of fees established by law:

On every application for a design, for 3 years and six months	$10 00
On every application for a design, for seven years	15 00
On every application for a design, for fourteen years	30 00
On every caveat	10 00
On every application for a patent	15 00
On issuing each original patent	20 00
On filing a disclaimer	10 00
On every application for a re-issue	30 00
On every additional patent granted on a re-issue	30 00
On every application for an extension	50 00
On the grant of every extension	50 00
On appeal to the Commissioner from Examiners-in-chief	20 00
On every appeal to the Judges of Circuit Court, D. C.	25 00

Infringements.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunction from the Court, to an arrest of or prohibition from the employment of his machinery, shop, works, factory and men in production of the article.

In addition to injunction the infringer is liable to be mulcted in treble the amount of damages awarded by the jury. The maker, the workman, the seller, and the purchaser, if a user, are all liable either collectively or individually.

Having access to all the patents, models, public records, drawings and other documents pertaining to the Patent Office, we are prepared to make examinations and give opinions upon all infringement questions, advise as to the scope and ground covered by patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Appeals.

In rejected and other cases, the new law provides for an appeal from the Examiner-in-chief to the Commissioner in person, on the payment of a fee of twenty dollars. A further appeal may be taken from the decision of the Commissioner to the U. S. Court, of the District of Columbia. These appeals are heard by any of the Judges before whom the applicant elects to bring the case. No Jury. All the papers, models, etc., are sent by the Commissioner to the Judge, who then reviews the case, and either sustains or reverses the Commissioner's decision.

The party taking the appeal pays an additional fee of twenty-five dollars. The Judge appoints a day of hearing. The applicant can appear in person or by counsel to state his case and file a written argument. Five days are allowed the opponent to put in an answer, and a similar period to the appelant for a closing reply.

Many important cases are brought before the Judges on appeal, and the decisions of the Commissioner are not unfrequently reversed. We have had successful experience in conducting these appeals, and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, Government House, corner Sansome and Washington streets, San Francisco.

Patent Claims.—We will furnish, on application, the claim of any invention that has been patented within the last fourteen years. The name of the patentee, date of patent, when known, and two dollars for copying, should be sent.

Back Numbers.—We have a limited number of past volumes of the PRESS on hand, which will be sold, neatly bound, at reasonable rates. A portion of the back numbers of the paper can be had by the single copy.

Miscellaneous Advertisements.

Sacramento Iron Works.

I STREET, BETWEEN FIRST AND SECOND STREETS, SACRAMENTO.

GOSS & LOMBARD.....Proprietors.

MANUFACTURERS OF STEAM ENGINES, MACHINERY FOR Saw, Flour and Quartz Mills, Horse Powers, Windmills, Car Wheels, Suction and Force Pumps, Cast Iron Riffles and all kinds of House Castings, at reduced prices. Gas pipe of all sizes, and all kinds of Brass and Iron Steam Fittings, with Hemp and Rubber Packing, constantly on hand. Wrought Iron Work and all kinds of Brass Castings done to order.

We are the Sole Agents in this State for the celebrated Worthington Pump, an assortment of which we keep constantly on hand. We have just received from the East a fine assortment of Cast Iron Fence Patterns, suitable for yards, balconies, cemetery lots or graves. We shall continue to do our work in the best manner and at the LOWEST CASH PRICES, hoping thereby to receive a just share of public patronage. 1-3m

JOHN F. GALLAGHER.....JOSEPH H. WEED.

GALLAGHER & WEED,

BRASS AND BELL FOUNDRY

And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING, DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, MADE to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks, also brass Padlocks and Shop Locks of various patterns, on hand and made to order.

☞ Particular attention given to casting Rudder Braces and Ship Work in general.

☞ All Jobs promptly attended to.—Prices moderate. ☜

No. 125 First Street, opposite Minna, next door to Pacific Foundry. [Removed from Oregon street, between Front and Davis.] j21f

KUSTEL & DEETKIN'S

METALLURGICAL WORKS,

FOR THE REDUCTION OF

SILVER AND GOLD ORES, TAILINGS, SULPHURETS, ARENIURETS, ETC., ETC. CUPELLATIONS AND REFINING OF SILVER AND GOLD,

Practical Assays for Silver and Gold, in small and large quantities, by Smelting, Chlorination and Pan Manipulation.

WORKS—On the San Bruno Road.

OFFICE—No. 605 Montgomery St., San Francisco. nov7-tf

LEANDER RANSOM,

Civil Engineer and Surveyor,

HAVING BEEN CONNECTED WITH THE PUBLIC WORKS OF the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. Also

State Locating Agent,

AND AS SUCH HAVING THE SALE OF

600,000 Acres of State School Lands.

At the low price of $1,25 per Acre.

TERMS—Twenty per cent in cash and the balance on a credit of several years.

oc7-tf Office, 328 Montgomery streets.

LEWIS COFFEY. J. S. RISDON.

LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

THE ONLY EXCLUSIVELY BOILER MAKING ESTABLISHment on the Pacific Coast, owned and conducted by Practical Boiler Makers. All orders for New Work, the repairing of Old Work, executed as ordered, and warranted as to quality.

Old Stand, corner Bush and Market Streets. Opposite Oriental Hotel, San Francisco, Cal.

Vulcan Iron Works Company.

P. Torquet,.....Manager.

Steam Engine Builders and Boiler Makers,

Iron Founders and General Engineers,

PUMPING, HOISTING, MINING AND QUARTZ-CRUSHING MAchinery. Shoes and Dies of the hardest iron. Russia Iron Punched Screens, Steamboat Machinery, Saw, Flour and Sugar Mills. High and Low Pressure Boilers of all styles. Jonval and other Turbine Water Wheels with latest improvements.

tf No. 187 & 139 First Street San Francisco.

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,

BOILER MAKERS AND SHEET IRON WORKERS,

N. B. All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission, between Beal and Fremont Sts., San Francisco. fy29-tf

D. MORRIS,

MACHINE SHOP.

MANUFACTURER

Of Warranted Fire-proof Safes.

Mill Work, of all kinds made to order. All kinds of repairing done at moderate prices. 227 Market, corner of Beale Street. je13

NORTH BEACH

Quartz Mill and Reduction Works

ARE PREPARED TO WORK GOLD AND SILVER ORES, IN large or small quantities.

Working assays made of small lots, and all kinds of ores crushed at short notice.

Our new and complete Machinery, will enable us to give results fully up to the merits of rock.

WHEELER & THAYER, Proprietors.

C. G. JONES, Amalgamator.

San Francisco, Oct. 13, 1863. j21f

Must be seen to be Appreciated!

THE FLORENCE!

A GREAT IMPROVEMENT!

This Celebrated

NEW SEWING MACHINE

IS ACKNOWLEDGED TO BE

THE BEST IN THE WORLD!

IT MAKES FOUR DISTINCT STITCHES!

IT FEEDS THE WORK EITHER WAY!

WILL SEW OVER THE HEAVIEST SEAMS,

WITHOUT CHANGE OF TENSION!

IT SELDOM, IF EVER, DROPS A STITCH!

IT SEWS WITH SILK OR COTTON THREAD EQUALLY WELL!

IT RUNS LIGHTLY, SEWS RAPIDLY, AND IS ALMOST NOISELESS!

IT DOES THE HEAVIEST OR FINEST WORK WITH EQUAL FACILITY!

IT MAKES A STICH ALIKE ON BOTH SIDES OF THE FABRIC, USING ONLY HALF THE QUANTITY OF THREAD NECESSARY FOR THE OLD FASHIONED CHAIN-STICH MACHINES!

WHILE IT POSSESSES ALL THE GOOD QUALITIES OF others, and has many advantages over any and all of them, the FLORENCE is sold at corresponding prices with other first-class Machines. We

WARRANT EVERY MACHINE

To be all that we claim for it, and will give a WRITTEN WARRANTY if required.

AGENTS WANTED in all the principal cities and towns on the Pacific coast.

Send for Circulars and samples of sewing.

DON'T BUY A SEWING MACHINE UNTIL

YOU HAVE

SEEN "THE FLORENCE!"

SAMUEL HILL, General Agent.

111 Montgomery street, between Bush and Sutter, San Francisco, California. j2-3m

Pacific Mail Steamship Company.

THE FOLLOWING STEAMSHIP'S WILL BE DISPATCHED FROM SAN FRANCISCO IN THE MONTH OF JANUARY, 1864.

Jan. 4—GOLDEN AGE,.....Wm. F. Lapidge, Commander.
Jan. 13—CONSTITUTION,.....J. T. Watkins, Commander.
Jan. 23—ORIZABA.....E. T. Farnsworth, Commander.

From Folsom street Wharf, at nine o'clock A. M., punctually,

FOR PANAMA.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company.

A. B. FORBES, Agent P. M. S. Co.,
j1 Gor. Sacramento and Leidesdorff sts., San Francisco.

SQUARZA'S PUNCH.

FIRST PREMIUM

AT THE SACRAMENTO AGRICULTURAL STATE FAIR FOR THE YEAR 1862.

ALSO; FIRST PREMIUM

At the San Francisco Bay District Agricultural Fair, 1862.

MANUFACTORY, WHOLESALE AND RETAIL,

No. 44 Leidsdorff street, opposite the What Cheer House,

j2-tf San Francisco.

GEO. A. METCALF. D. S. HUTCHINSON.

METCALF & HUTCHINSON'S

PHOTOGRAPHIC GALLERY,

650 Washington St. Three doors below Kearney, San Francisco.

HAVING REFITTED THE ABOVE ROOMS THE FIRM ARE now prepared to furnish the public with a superior style of Picture, at a lower price than ever before offered in the city.

CARD PICTURES.

As we have every facility for producing these beautiful pictures, in all their different varieties, we have reduced the price to

THREE DOLLARS PER DOZEN!

Large sized Photographs $3—Extra copies $1 each.

AMBROTYPES in all Styles and Prices.

OLD PICTURES copied with care and accuracy, in any style desired. Particular attention paid to pictures of children.

Pictures painted in Oil or Water Colors, and retouched in India Ink by a competent artist. aug.

D. NORCROSS,

MILITARY GOODS OF ALL DESCRIPTIONS. NAVY TRIMMINGS AND EMBROIDERIES. REGALIA FOR ALL ORDERS.

aug17-tf Masonic Temple, No. 6, Post Street.

EL PASO DISTRICT, LOS ANGELES COUNTY,

Mining Agency.

C. W. TAPPEN,.....General Agent.

"Headquarters," Mesquit Springs.

Will attend to any business connected with these mines for a reasonable consideration.

LETTERS OF ENQUIRY, containing Revenue or Postage Stamps to the value of fifty cents, and enclosing an addressed envelope for reply, will be promptly attended to.

The subscriber has a carefully prepared map, (and specimens,) of each lode in the district, a portion of many of which are for sale at a very low figure.

For further particulars he would refer to J. Burnet, Esq., 425 Davis St., San Francisco, Cal.

El Paso, June 21, 1863. C. W. TAPPEN. au31-tf

WM. H. MEAD, THEODORE VAN TASSEL.

MEAD & VAN TASSEL,

HATTERS,

Montgomery St., corner of Commercial,

SAN FRANCISCO.

TO OUR FRIENDS AND THE PUBLIC GENERALLY:—HAVING purchased the entire interest of Messrs. Fishers & Co., in this city, we shall, on the 1st. day of May assume the management of the

HAT EMPORIUM

so long conducted by that firm..

MR. WILLIAM H. MEAD, for the last seven years salesman with Messrs Fisher & Co., respectfully solicits a continuance of the patronage so long and liberally bestowed upon the old House, feeling entire confidence in our ability to suit in every particular.

MR. THEODORE VAN TASSELL, for eight years with Messrs Le Gay & Co., would be pleased to see his friends at his new place of business.

The long practical experience of Messrs. Mead & Van Tassel in the Trade justifies them in saying that their work cannot be excelled either in finish or durability. Having perfected arrangements, we shall be in constant receipt, by every steamer, of soft goods of the very finest of FRENCH AND AMERICAN MANUFACTURE. Our Stock on hand is superb.

Call and examine, and judge of the merits of our claim to the title of "LEADERS OF FASHION."

Respectfully, MEAD & VAN TASSELL.
no2-tf Montgomery street, cor. Commercial.

WHEELER'S

Amalgamating and Separating Pans.

IT IS ACKNOWLEDGED BY ALL WHO HAVE EXAMINED the principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.

The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metals arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the trituration this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.

Where these Pans have been introduced and operated by the side of others on sands from the same vat, the Wheeler Pans have uniformly gained a large percentage of metals over the competitors, as well as a still larger percentage in the amount of work performed.

*** These Pans may be seen in daily operation, at the Miners' Foundry, on First street in this city, where all interested are invited to call and examine for themselves.

no16-tf ZENAS WHEELER.

To Quartz Miners.

ALL PERSONS INTERESTED IN MINING MAGHINERY ARE invited to call at Donahue's Foundry and examine my improved Amalgamator. It is unquestionably superior to anything now known for amalgamating Silver and Gold. It works 1000 pounds at a time, and will amalgamate over three tons a day. By the motion of the revolving muller, the pulp is drawn through its centre and passes under it, between the grinding surfaces, to the circumference; from whence it passes again over the muller to the centre, through the holes and between the grinding surface to the circumference as before. Thus a constant circulation of the pulp is kept up, bringing the particles of ore again and again under the muller, and reducing the whole mass to an impalpable powder.

No quicksilver lies between the surfaces to be ground, but at the circumference and centre of the pan where the metal must pass through it as the pulp circulates.

A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S. Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.

sep21

A New and Valuable Book.

PROGESS OF SILVER AND GOLD EXTRACTION, BY GUIDO Kustel, Mining Engineer and Metallurgist, former manager of the Ophir Works, &c.; 350 pages octavo illustrated.

This admirable work has met with the highest commendations from the Press and Scientific men, as a clear and able exposition of the science as practised in California and Nevada Territory. It is written for the people in good plain English and finely illustrated.

Price—post paid—Cloth $6; Sheep $7.

A. ROMAN & CO.,
Booksellers, Importers and Publishers,
417 and 419 Montgomery street,
no30-tf San Francisco.

SOUTH PARK

Quartz Mill and Reduction Works.

GOLD AND SILVER ORES WORKED AT REASONABLE RATES, and Working Assays made of small lots. All kinds of ores crushed at short notice.

J. H. SMITH & CO.

Office at the Mill, South Beach and Third St.
je13 tf. W. R. WATERS, Secretary.

THEODORE KALLENBERG,

Maker of Models for Inventors.

MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.

No. 418 Market street, San Francisco. n7-tf

I. C. E. KLEPZIG & CO.,

Gun Makers and Dealers in Gun Materials.

REPAIRING DONE IN A WORKMANLIKE MANNER AT THE shortest notice. Gilding, and also Silver Plating, by E. Ekland.

733 Washington St., San Francisco, [one door above Kearney.] je21-tf

R. W. MYERS. H. C. SOMES.

R. W. MYERS & CO.,

Chases' New Mill, Fremont Street, near Market Street.

Do Job Turning and Scroll Sawing.

BRACKETS, RED WOOD BALUSTERS, NEWAL AND CEDAR Balusters for Stairs. Manufacturers of every description of Oval, Circular and square Picture and Looking Glass Frames, for the Trade at New York prices. All kinds of designs for Building. tf

DR. H. AUSTIN, DENTIST,

No. 634 Washington Street, Between Montgomery and Kearny,

(OVER SAN FRANCISCO BATHS.)

I HAVE RECENTLY RECEIVED FROM LONDON, A NEW AND Beautiful Vulcanite (India Rubber) for Artificial Teeth, which is far superior to any other ever used. It is light, cleanly and durable, and of a natural color. The cheapest and best material for (temporary (and in many cases) permanent sets. All operations thoroughly performed, and at reasonable prices. je-29

Miscellaneous Advertisements.

INTERNATIONAL HOTEL.

Jackson Street..... San Francisco.
[A FEW DOORS ABOVE MONTGOMERY.]

Fire-proof Brick building. Most convenient to the Steamer's Landing, Business six, and places of Amusement. Open all night. City Railroad Cars Pass the Door.

REDUCTION IN PRICES.

TURKISH BATHING ROOMS ATTACHED TO THE BARBER SHOP. Warm and Cold shower Baths Free to Guests. Thoroughly renovated and newly furnished this Spring. Every room opens to the Light and Air. Each room is furnished with a first quality Patent spring Bed and Hair mattrasses. The International offers to guests the greatest number

AND BEST FURNISHED FAMILY ROOMS;

And sets as good a table as any House in the City.

I am determined that the INTERNATIONAL shall be the most comfortable, best ventilated, and in all respects superior to any like establishment in the State, and shall aim to merit a continuance of the popular favor it has enjoyed heretofore. It will be conducted on Temperance Principles.

1-tf F. E. WEYGANT, PROPRIETOR.

TREMONT HOUSE.

418 and 420 Jackson Street [a few doors below Montgomery,]
SAN FRANCISCO, CALIFORNIA.

THIS FINE, FIRE PROOF BUILDING OFFERS MANY ADVANtages to the traveler for convenience. It is only half a block from the Post Office and Custom House, and about the same distance from the principal places of Amusement.

The City Railroad Cars pass the Door. The House is conducted on Temperance Principles, which secures to our guests QUIET.

The prices for board and Rooms are very moderate—by the day, meal or week. WE SOLICIT A CALL FROM ALL.

F. E. WEGANT, Proprietor.

For the accommodation of my many guests I have taken and refurnished the INTERNATIONAL HOTEL, and will carry on the two houses in connection, so that travelers wishing to put up at either house, may take the Tremont or International Hotel Coach and be taken to either House with their baggage, FREE.

tf. F. E. WEGANT.

ASSAYS!

Promptness and Accuracy Secured

BY THE USE OF THE MOST IMPROVED METHODS OF ANALYSIS!

Advantageous Terms for Prospector's Clubs and Mining Companies.

J. H. CHURCHILL, M. A.,

[FROM EUROPE.]

24 Government Block, corner of Sansome and Washington Streets, San Francisco.

☞ "HINTS FOR PROSPECTORS" free by post. tf

HEYER BROS., 76 and 78 Federal Street, BOSTON.

HEYER BROS., 406 Battery Street, SAN FRANCISCO.

HEYER & CO.,

IMPORTERS OF

AMERICAN AND EUROPEAN FANCY GOODS, TOYS AND MUSICAL INSTRUMENTS;

ALSO, SOAPS, PERFUMERY, HAIR AND TOOTH BRUSHES, Port Folios, Portmonnaies, Ladies' Bags, Photograph Albums, Cutlery, Willow and Parian Ware, Children's Carriages, etc. Our Stock of Violin, Guitar and other Strings is very large. Our foreign Goods are selected by one of the firm, and the American by the Boston House (established in 1824.) We have the sole Agency for

HALLET & DAVIS' BOSTON PIANOS,
SMITH & BROS' HARMONIUMS, AND
TREAT & LINSLEY'S MELODEONS.

The Hallet & Davis Pianos are each supplied with their Patent Suspension Bridge, which is a decided improvement. It gives a full and clear vibration in the upper octaves, producing a quality of tone unequalled in firmness and purity. Our Melodeons and Harmoniums are of the best quality, and warranted to give satisfaction. 3m.

Fire Hose! Fire Hose!!

J. P. D. WILKINS,

THE CELEBRATED HARNESS MAKER OF STOCKTON, MAKES Fire Hose, from the best material, and WARRANTED at a trial of the Weber Steam Engine Co., No. 3, of the City of Stockton. This Hose is manufactured at his establishment, and known to stand a pressure of 125 pounds to the square inch; as certified by the Chief Engineer.

ALSO FOR SALE,

All kinds of HARNESS and SADDLERY, at the lowest cash prices, Repairing done promptly, one door west of the Main Street Stable. Stockton, Cal. oct24 1f.

Agency for the Purchase and Sale
—OF—
MEXICAN MINING STOCKS,

At No. 411 Clay Street, San Francisco,

OFFICE OF THE PENA AND LA MARRONENA SILVER MINing Companies, San Antonio District, Lower California.

All persons are invited to call and examine Ores from the above mines. jltf WM. FAULKNER.

NEW BEDFORD COPPER COMPANY.

THE UNDERSIGNED HAVING BEEN APPOINTED AGENTS for the above Company, are receiving regular supplies of their superior manufactures of

SHEATHING COPPER,
BRAZIERS COPPER,
COPPER BOLTS,
YELLOW SHEATHING METAL,
COPPER AND COMPOSITION NAILS,

Which they offer to the Trade at the lowest market rate, and on the most favorable terms.

Office, 108 Front Street, San Francisco.
MOROAN, STONE & CO.

G. E. MORE,

Assayer and Analytical Chemist,

Having established a Chemical Laboratory, furnished with every requisite for delicate Analytical work, is prepared to execute the Assay and Analysis of Ores, Mineral Waters, Guanos, etc., with accuracy and dispatch. No. 612 Sacramento Street.

REFERENCES:—Prof. J. D. Whitney, State Geologist, San Francisco; Alsop & Co., San Francisco; Sather & Church, San Francisco; John Parrott, San Francisco; D. O. Mills, Sacramento. tf

REYNOLD'S
Patent Cut-Off and Governor,
For Steam Engines.

127 of these Invaluable Machines
ARE NOW IN USE

In California and Nevada Territory, giving a perfectly regular motion and

Saving 20 to 75 per cent of the Fuel.

Steen's Improved Governor

IS THE FIREAPEST, SIMPLEST AND QUICKEST TO ACT AND least liable to get out of order of any Governor in use. It can be seen in operation at the Golden State Iron Works, at the Stone Breaker, foot of Montgomery Street and at the Sugar Refinery, 8th Street, San Francisco.

Steam Engines, Boilers, Pipes,

Hydraulic Presses, Shafting, Pulleys, Etc., Etc., bought and sold at the best market rates.

Anti-Incrustation Powder,

A sure remedy for Scale in Steam Boilers, without injury to the Iron. In use for the past EIGHT years.

☞ MACHINERY MADE AND REPAIRED. ☜

—REFER TO—

Sugar Refinery, San Francisco,
Cottell & Co., San Jose.
L. A. Booth, Esq., Virginia City,
And 2,000 others in the United States.

E. T. STEEN.

1-tf Nos. 37 & 39 Fremont Street and 42 & 44 Beal Street.

Owen's River Canal Company,

CAPITAL STOCK.....$1,000,000,

10,000 Shares.....$100 per Share.

A PORTION OF THIS STOCK IS NOW OFFERED TO THE PUBlic, and recommended as an investment.

Full Paid and Unassessable Stock,

Also Assessable Stock, can be obtained of A. J. DOWNER & CO., the authorized Agents of the Company,

406 Montgomery Street.

President.....R. S. WHIGHAM.
Secretary.....W. FISK HITCHCOCK.
Treasurer.....MONTGOMERY GODLEY.
Superintendent.....WILLIAM FLEMING.
Engineer.....J. E. CLAYTON.

TRUSTEES:

R. S. WHIGHAM, formerly of Whigham's Mill,.....Nevada City.
WILLIAM FLEMING.....of San Francisco.
SPIER RIDDEL.....Paying Teller of Parrott & Co's.
ISAAC SWAIN.....of A. J. Downer & Co.
WILLIAM P. PRATT.....of Nash & Fogg.

Office of the Company 328 Montgomery Street. jltf

T. C. SANBORN & CO.

Stock Brokers,

No. 630, Montgomery Street,.....San Francisco.

OPHIR SILVER MINING STOCK,
COULD & CURRY MINING STOCK,
CHOLLAR MINING STOCK,
CALIFORNIA STEAM NAVIGATION COMPANY'S STOCK,

☞ **BOUGHT AND SOLD.** ☜

jltf.

Owen's River Canal Company.

FOR SALE, FOR ACCOUNT OF THE COMPANY, 7,000 SHARES of the above stock, at $1 per share. It is confidently presented to the public as the best investment, for the price, now offered in this market.

Office of the Company No. 328 Montgomery street. tf.

Removal.

OFFICE OF THE PACIFIC METALLURGICAL OFFICE IS REmoved to 509 Sacramento street. Having enlarged our works at North Beach, we are now enabled to reduce from 10 to 15 tons of Silver or Gold rock per day.

Gold and Silver ore, and Sulphuret Assayers', or Silversmiths' sweepings reduced or purchased.

COPPER ORES—Highest market rates advanced in cash, for Shipments. S. C. BRADSHAW, Agent,

509 Sacramento street, near Sansome.

HEPBURN & PETERSON'S.
AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION OF THE Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos. 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machines now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

nov8 3m* HEPBURN & PETERSON.

The Pacific Mineral Company

MAKE LIBERAL ADVANCES

UPON THE ORES OF

Copper, Silver, Tin, Nickel, Cobalt, Zinc, Lead, and Sulphurets—containing Gold.

DUE ACCOUNT TAKEN OF ALL VALUABLE METALS COMbined with Silver and Copper Ores, and advances made therefor.

Parties owning undeveloped mines and desiring Capital to prospect the same will receive assistance; if, upon examination, such leads are deemed sufficiently valuable to justify such expenditure.

Office, No. 1, Odd Fellows' Hall,
jeltf Montgomery Street, San Francisco.

Mining Shares for Sale
—BY—
C. A. CRANE.

Office 28 Government Block.

475 Shares U. S. Mining Company, Virginia City.
910 Shares Brunnah Gold and Silver Mining Company, Virginia Hill, Virginia City.
168 Shares Evoca Consolidated Copper Mining Company, Crescent City, Cal
20 Shares Mohave Mining Company, La Paz District, Colorado, N. M.
20 Shares Aspinwall Gold and Silver Mining Company, Devil's Gate District, N. T.
75 Shares Washington Copper Mining Company, Indian Bar, Tuolumne Co.
228 Shares Montezuma Gold and Silver Mining Company, Inyo District, Tulare Co.
90 Shares Owen's County Consolidated Gold and Silver Mining Company, Inyo District, Tulare Co.
50 Shares Crown Point Ravine Gold and Silver Mining Company, Virginia District, N. T.
10 Shares Triunfo Gold and Silver Mining Company, San Antonia District, Lower California. jl tf.

W. W. HANSCOM,

Steam and Mechanical Engineer. Designs furnished, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc., etc. Agent for McKenzie's Patent Cupola and Blower.

At the Golden State Iron Works,
First Street, San Francisco.
tf.

N. LOMBARD INGOLS,

Accountant and Mining Secretary.

NO. 10 GOVERNMENT HOUSE, CORNER OF WASHINGTON AND SANSOME STREETS, SAN FRANCISCO.

OFFICE OF THE
SANTA CRUZ PETROLEUM OIL WORKS,
GEM SILVER MINING CO., (REESE RIVER, N. T.,)
LAUREL G. & S. MINING CO., COPALA, SINALOA, MEX.

N. B. Mr. Ingols will pay particular attention to the adjustment of complicated accounts, Commercial and Incorporated Companies' Books, to drawing up Commercial writings and to Engrossing legal or other documents with neatness and dispatch. An experience of more than twenty-five years in every branch of his profession is a guaranty of his practical and thorough acquaintance with its duties. He has the privilege of referring to some of the leading mercantile houses and legal practitioners on the Atlantic and Pacific sides, for testimony of his business and clerkly abilities. jltf.

MINERS' FOUNDRY
—AND—
MACHINE WORKS,

First street, between Howard and Folsom streets,
SAN FRANCISCO.

EVERY DESCRIPTION OF IRON AND BRASS MACHINERY, of the Best and Most Economical, manufactured in the State of California, will be furnished with Dispatch at the Miners' Foundry and Machine Works, as:

Steam Engines and Boilers, Flour, Saw and Quartz mill machinery, Mining Pumps, Amalgamators, Retorts, Etc., Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections, designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities will be afforded ample facilities, free of cost.

All parties desiring accurate and highly finished drawings and Superior Machinery, at most reasonable rates are cordially invited to call before contracting elsewhere.

HOWLAND, ANGEL & KINO.
San Francisco, February 23, 1863. tf.

50 lbs. MARINE AND
FIRE-PROOF PAINT,

MANUFACTURED BY THE PACIFIC METALLURGICAL Works in the city, for Hulls and Decks of Vessels, from ground Mineral Rock, containing Arsenic, Copper, Litharge and six other Minerals. When used on the Decks or Bottoms of Ships, it is equal to a coat of Stone, and quite equal to Copper; no worms will ever effect it, and it is cheaper than any other paint.

DIRECTIONS.—For Deck of Ships, use two parts Mineral Paint, one part White Lead, mix with Linseed oil.

For Bottoms of Vessels, use one part ground sulphur, three parts Mineral Paint; mix with Coal Tar and apply it hot.

For sale by all Ship Chandlers and tradesmen, in boxes of fifty pounds each, or by the Pacific Metallurgical Works.

25 lbs. FIRE-PROOF PAINT.

When used on Roofs, Buildings, or Fences it is equal to covering them with a coat of Stone, being perfectly Fire-Proof, and costing less than any paint.

DIRECTIONS.—House—Mix three parts Mineral paint with one part white lead; mix with Linseed oil. If a lighter color is wanted, mix less paint, more lead.

Roof.—Five parts of Mineral Paint, one part white Lead; mix with Linseed oil. Put it thick on a Tin Roof, as one coat when properly applied will last three years.

S. C. BRADSHAW, AGT.
G. T. FOUQUE, Superintendent.
WORKS, North Beach; Office, 509 Sacramento St., San Francisco. tf.

THE RAILROAD HOUSE.

Nos. 318 & 320 Commercial and Clay Sts,
SAN FRANCISCO.

H. T. FELTON,.....Proprietor.

THE ABOVE HOUSE IS A FIRE-PROOF BUILDING, WITH Granite Front, and kept on the European Plan, with board and lodging by Day or Week to suit the convenience of our Patrons.

The rooms are handsomely Furnished, supplied with Patent Spring Beds, and Hair Mattrasses, affording very superior accommodations for families or single persons.

The Table is supplied with the best the market affords at prices to suit the times.

The Rail Road House Coach is always in attendance at the Steamers to convey passengers and their baggage to the House **Free of Charge.** ☞ **The House is open all Night.** jltf.

Mining Notices.

Enterprise Copper Mining Company.—Office 528 Montgomery street, San Francisco. At a meeting of the Board of Trustees of this company, held December 12th, an assesment of ten cents per share was levied, payable immediately, and another assessment of eight cents per share, payable January 1st, 1864, and another assessment of eight cents per share payable February 1st, 1864, all payable in U. S. gold coin, to Thomas S. Levy, the Treasurer, at Lincoln, Placer county, or to the Secretary, at the office of the Company. By order of the Board of Trustees.

M. G. ELMORE, Secretary.

Occidental Copper Mining Company, Office northeast corner Pine and Montgomery streets, San Francisco, December, 29th, 1863.—An assessment of Thirty Cents per share was this day levied on each and every assessable share of the capital stock of the Occidental Copper Mining Company, payable immediately to the Secretary, in U. S. gold coin. By order of the Board of Trustees

EDW. BARRY, Sec'y.

Fair Haven Gold and Silver Mining Company, Cortes District, Reese River.—At a meeting of the Trustees of the above Company, held Dec. 29th, 1863, an assessment of Seven Cents per share was duly levied and made payable immediately at the Office of the Secretary, 400 Front Street.

W. H. DANIELS, Secretary.

Hudson Gold and Silver Mining Company, (Devil', Gate District,) office No. 804 Montgomery street, San Francisco, December 19th, 1863.—At a meeting of the Board of Trustees of this Hudson Gold and Silver Mining Company, held this day, December 19th, 1863, an assessment of One Dollar per share was duly levied on each and every share of the Capital Stock in said Company, due and payable immediately, in United States gold coin to the Secretary, at the office of the Company, in this City, or to A. W. Hale Esq., Superintendent, at Virginia City.

j2-1m I. LAWRENCE POOL, Sec'y.

Mohave Mining Company.—A Special meeting of the Stockholders of the above named Company will be held on the 14th day of January, 1864, at 7½ o'clock P. M., at No. 606 Montgomery Street. By order of the President. H. H. LAWRENCE, President;

1 G. J. TURNER, Sec'y.

Sarah Frances Gold and Silver Mining Company Markleville.—Assessment No. 7. of Fifteen Cents per share, was levied by the Board of Directors, December 23th, 1863 payable to FRANCIS V. SCUDDER, Sec'y.

Rooms of the Company, 9 and 10, northeast corner of Montgomery and Pine streets. j2-1m

Scorpion Silver Mining Company.—Notice is hereby given, that by a resolution adopted by the Board of Trustees of the Scorpion Silver Mining Company, at a meeting held on this day, an assessment of twenty-five (25c.) cents was levied upon every share of the Capital stock of said company, to be paid in gold coin of the United States, on or before the 29th day of January, 1864, at the office of the company, No. 617 Clay street.

W. H. MARTIN, Sec'y.

San Francisco, December 29, 1863. j2-1m

Conqueror Gold and Silver Mining Company.—Office southeast corner of Front and Sacramento streets, San Francisco December 29th 1863—At a meeting of the Trustees of the Conqueror Gold and Silver Mining Company held this day, an assessment of Twenty-five (25c.) Cents per share on each and every share of the capital stock of the said Company was levied, now due and payable immediately in U. S. gold coin, to the Secretary, at the above named office. By order of the Board of Trustees.

j2-1m WM. W. KNIGHT, Sec'y.

Carrie Copper, Gold and Silver Mining Company.— The First Annual Meeting of the Stockholders of the Carrie Copper, Gold and Silver Mining Company, will be held at the Company's office, No. 528 Clay street, on MONDAY, February 1st, 1864, at 3 o'clock. P. M., for the election of officers and the transaction of such other business as may come before it. (1-1m) B. W. MUDGE, Sec'y.

Puritan Gold and Silver Mining Company, (Devil's Gate District, N. T.)—Notice is hereby given that the Trustees of the Puritan Gold and Silver Mining Company have this day levied an assessment of one dollar on each and every share of the capital stock of said company; said assessment payable immediately in gold coin to the Secretary, at the office of the company, No. 623, Washington street. H. B. CONGDON, Secretary.

December 26, 1863. 1-m

Bullion Gold and Silver Mining Company, Van Horn District.—Notice is hereby given that a meeting of the stockholders of the above named company will be held at the office of the Secretary, at 7 o'clock on MONDAY EVENING, the 25th day of January next, for the election of officers, and the transaction of other legal business. By order of the President,

San Francisco, Dec. 19, 1863. (2-m) T. L. BIBBINS, Sec'y.

Our Correspondence.—We would call the attention of our readers to the letters and communications which appear in our columns this week. The letter of Dr. Logan will be found of especial interest to antiquarians; "J. D. W." gives an interesting account of the various mining publications throughout the world; "J. C." sends us the first number of a series which will be found interesting and important to prospectors; "Bullion" furnishes a very important suggestion with regard to taxing the mines; our Copperopolis correspondent continues his series in the present issue; Silver Mountain, Mariposa, and other interests are duly represented by correspondence in our columns to-day.

Mining Laws and Forms

JUST PUBLISHED, BY H. H. BANCROFT & CO., BEING A compilation of the Statutes of this State relating to Mining Corporations, Assessments, etc., with a digest of decisions of the Supreme Court and Forms of the Incorporation of Companies. Compiled by H. B. Congdon. 12mo., flexible cloth. $1,50. For sale at all the Bookstores. sep14-tf

Patronize Home Manufacturers!!!

JAMES LONGSHORE,

TRUNK AND VALISE MANUFACTURER, 397 SANSOME ST., under Tehama House. Trunks and Valises, Wholesale and Retail. Fine Sole Leather Trunks, Valises, and a fine assortment of LADIES' TRUNKS constantly on hand. Trunks covered and repaired. au10

Reliable Assays can always be obtained on application to J. H. Churchill, Government House, San Francisco.

W. P. DENCKLA. A. L. CHAMBERLIN.

DENCKLA & CHAMBERLIN,

Stock and Exchange Brokers,

No. 413 Montgomery Street,

SAN FRANCISCO.

☞ Deeds, etc., for record in Humboldt County, Nevada Territory, received and forwarded. 1-tf

L. B. ADSIT & JOHN J. HALEY,

Stock Brokers,

MEMBERS OF THE STOCK AND EXCHANGE BOARD OF BROKERS and of the PACIFIC BOARD OF BROKERS.

Stocks Bought and Sold only on Commission.

No. 604 Montgomery Street,

1-tf Between Clay and Merchant, San Francisco.

WM. S. LYON & CO.,

Stock and Exchange Brokers,

308 Montgomery Street, corner of Pine,

SAN FRANCISCO.

QUARTERMASTER'S WARRANTS BOUGHT. THE HIGHEST Price paid for Legal Tender Notes. Open till 9 P. M. 1-3m

H. S. HOMANS,

NOTARY PUBLIC,

And Commissioner of Deeds for Nevada Territory,

MINING SECRETARY, CONVEYANCER, ETC.,

No. 605 Montgomery Street, between Clay and Merchant,

1-1m SAN FRANCISCO.

A. C. MORSE,

Mining and Real Estate Agent,

Office, S. W. corner Pine and Silver Sts., Aurora.

HAVING MADE ARRANGEMENES WITH MINER S. MARTIN, Esq., one of the principal Stock Brokers of San Francisco. I am prepared to BUY and SELL every description of Mining Stocks in Esmeralda District. tf

HOWLAND, BELL & CO.,

Copper Crushing and Grinding.

Attend to all kinds of Grinding & Crushing,

—SUCH AS—

COPPER ORES, MARBLE DUST, FIRE-BRICK DUST, DRUGS,

And Feed of all Kinds,

All of which will be Ground at the Shortest Notice.

—ALSO—

California Mineral Paint and Mineral Polishing Powder.

Works—No. 53 Market Street.

San Francisco, January 1st, 1864. 1-tf

WANTED,

Gold Quartz suitable for Cutting Jewelry.

By **FRONTIER & DEVIERCY.**

437 Pine Street, San Francisco.

an31tf.

ISAAC TABOR. JOHN HILL.

TABOR & HILL

Stock Brokers & Real Estate Agents,

502 Montgomery Street, corner Sacramento,

BUY AND SELL MINING STOCK ON COMMISSION. ARE MEMbers of the San Francisco Stock & Exchange Board, and of the San Francisco Board of Brokers. nov23-tf

E. C. DAKE,

Dealer in Clothing and Gent's Furnishing Goods,

541 and 543 Washington Street, Montgomery Block,

j2.tf San Francisco.

WM. P. TAAFFEE,

IMPORTER AND JOBBER OF

Staple and Fancy Dry Goods, Carpets, Duck, etc.,

1-tf Corner of Front and Sacramento Streets, San Francisco.

NATHANIEL GRAY,

General Furnishing Undertaker,

641 Sacramento St., corner of Webb, San Francisco.

DESKS AND OFFICE FURNITURE OF ALL KINDS, FOR SALE BY

JOHN WIGMORE,

No. 423 California St., San Francisco.

OFFICE JOBBING, of all kinds, promptly attended to.

j2-tf

FREDERICK MANSELL.

Mechanical & Architectural Draughtsman,

No. 422 California street, corner of Leidsdorff.

Drawings of Models made for parties applying for patents at Washington or London. mar23-tf.

GIFFARDS' INJECTORS,

FOR SUPPLYING OILERS WITH FEED WATER WITHOUT Pumps. No Mill or Mining Company should be without one of these valuable Instruments. Send for a Circular.

Corner of Pine and Front Streets, San Francisco.

je22-tf DAVID STODDART, Agent.

San Francisco Silver Mining Company, Lower California, Office 542 Sacramento street, San Francisco, December 24th, 1863—Notice is hereby given, that in accordance with the laws of the State of California, and the By-laws of the Company, and an order duly made by the Board of Trustees of the San Francisco Silver Mining Company, there will be sold at public auction, at the sales-room of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on MONDAY, January 25th, 1864, to the highest bidder for cash, in U. S. gold coin, so many shares of the capital stock of said Company, standing in the names of the following persons, as will be sufficient to pay the assessments heretofore levied and past due, together with the cost of advertisements and expenses of sale, unless said assessments and charges are sooner paid.

Names.	Shares.	Amount.
S. C. Bradshaw	439	$304 05
S. C. Bradshaw, Jr.	20	7 12
Geo. B. Reeves	25	8 12
E. T. Peck	50	17 50
J. R. Stewart	25	17 50
C. H. Parker	75	15 00
G. H. Ames	5	1 00
Wm. H. Buffington	6	1 20
C. Boardman	25	8 12
J. M. Cummings	90	18 00
H. W. Chesney	10	1 00
Francis Cutting	5	1 63
H. Kimball	10	1 00
Mrs. C. Smith	5	80
E. Sammis	10	1 00
C. Lasselle Taylor	125	12 50
J. R. Warren	10	1 00
Geo. O. Whitney	75	15 00
J. B. Ryder	75	15 00
Robet. G. Bartlett	20	2 00
Martin P. Townsend	10	2 00
John Pinkhuber	5	1 00
Mrs. C. S. Brownell	7	70
John Perry	5	50
Simon Strahan	5	50
W. T. James	5	1 62
Henry S. Smith	20	2 00
W. L. Anderson	25	2 50
Chas. M. Cornell	10	1 00
P. J. Wood	25	6 00
John A. Lundquist	5	50
Thos. Pike	25	2 50
G. W. Smith	10	1 00

By order of the Board of Trustees.

dec28-4t H. C. KIBBE, Secretary.

Enterprise Copper Mining Co.—Office, 528 Montgomery St., San Francisco. Notice is hereby given that there will be sold at the the office of the Enterprise Copper Mining Company, on SATURDAY, January 30th., 1864, at 10 o'clock, A. M., so many shares of the Capital Stock of said Company as will be necessary to pay all assessments due and delinquent, December 10th., 1863, standing in the names of the following parties:

	Share,	Am't. due.
William Harris	400	$100 00
J. P. Dameron	100	20 00
John M. Cannon	25	7 50
Thomas Donahoe	15	4 50
John Cochran	25	7 50
O. W. Melono	01	3 00

By order of the Board of Trustees. M. J. ELMORE, Sec.

1m

El Tesoro Silver Mining Company, December 17th, 1863.—Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Tesoro Silver Mining Company, December 14th, 1863, there will be sold at public Auction, by Jerome Rice & Co., 327 Montgomery St., San Francisco, on MONDAY, January 18th, 1864, at Eleven o'clock, A. M., so many of the Shares of the Capital Stock of the Company, standing in the names of the following persons or shareholders, as will be necessary for the payment of assessments duly levied thereon, together with the expenses of advertisement, and all other expenses of sale, to wit:

Shareholders.	No.	Ass't.	No.	Shares.	Amount.
Samuel B. Dean	1	2 3 4		112½	$0,337½
G. W. Johnson	1	2 3 4		150	450
Mateo Musick	1	2 3 4		337½	1,012½
T. T. Bradshaw	1	4		512	1,156
S. C. Bradshaw	1	2 3 4		124½	1,110½
S. C. Bradshaw, Jr.	1	3 4		15	208½
Geo. H. Bradshaw	1	3 4		53	236½
P. Kalkman		4		15	7½

By order of the Board of Trustees.

dec28 3t H. C. KIBBE, Sec'y.

Great Central Mining Company, Arizona.—San Fran cisco, December 24th, 1863.—The first annual meeting of Stockholders in the Great Central Mining Company, will be held on THURSDAY, January 7th, 1864, at the Office of the Company, 542 Sacramento street, at 7 o'clock, P. M. By order of the President.

j1 1t H. C. KIBBE, Secretary.

CHARTER PERPETUAL.

PHŒNIX INSURANCE COMPANY

OF HARTFORD, CONN.

DEVOTED TO FIRE INSURANCE EXCLUSIVELY.

Cash Capital,.....$400,000 00
Cash Assets,.....$641,253 53
Invested in California,.....$50,000 00

W. B. CLARK, Secretary. H. KELLOGG, President.

Pacific Branch Office:

S. W. corner Montgomery and Commercial Streets,

Over Banks & Co.'s Bank, Entrance 603 Commercial St.,

SAN FRANCISCO.

☞ Premiums received by the "PHŒNIX" for insurance in this State are retained for investment in California Securities, and together with $50,000 already invested in Bonds, are held subject to claims for loss under California Policies, making

The Phœnix of Hartford

A HOME INSTITUTION.

Backed by a sound *paid up capital*, the prestige of years, and an extended and valuable experience in the business.

Losses honorably adjusted and promptly paid in United States Gold at points where they occur.

R. H. MAGILL,.....General Agent.

☞ Policies issued and renewed in this sterling and popular Company, on all classes of desirable property, at rates as low as solvency and fair profit will admit of.

J. FRANK, City Solicitor. L. B. DELL, Resident Agent 1-3m

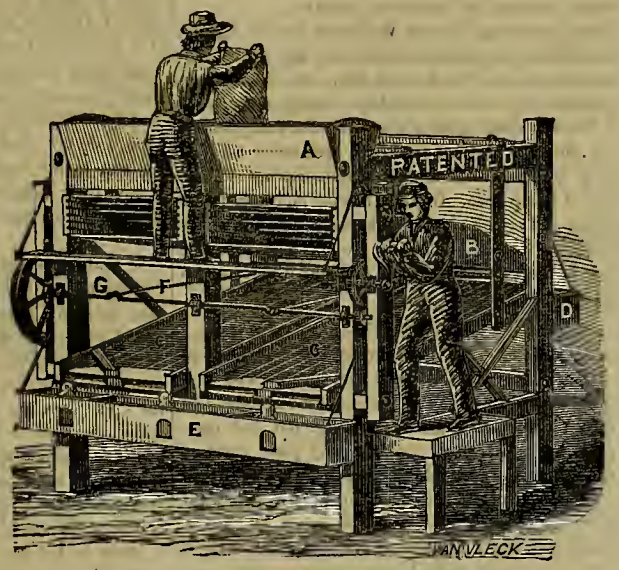
Mining and Scientific Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

VOLUME VIII. SAN FRANCISCO, SATURDAY, JANUARY 9, 1864. NUMBER 2.

HUNTER'S GRAIN SEPARATOR.

Hunter's grain Separator is a new invention, and the only practical working machine for farmers use, possessing all the different combinations for separating the various kinds of grain, such as barley, oats, chess, mustard, turnip, cockle and all broken and imperfect grains from wheat—thus rendering the wheat clean and perfect for seed or shipping purposes. The advantages derived from recleaning wheat are manifold:—First, at least ten per cent is saved in the purchase of sacks, for sacks hold ten per cent more wheat after it is cleaned and the refuse thrown aside; Second, the waste taken out, such as barley, oats and broken wheat, is worth as much as any other grain for feed purposes; Third, the advantages of sowing clean seed are inestimable for the farming interest generally, as the soil is thereby kept in a clean condition and prevented, oftentimes, from going to waste. The shipper is willing and able to pay a higher price for re-cleaned grain, than for that which has not been subjected to such a process; moreover the credit of the State will thereby be redeemed in foreign markets; for it should be borne in mind that California has suffered very much abroad from the imperfect manner in which her wheat has generally been shipped.



HUNTER'S PATENT GRAIN SEPARATOR.

The capacity of this machine is equal to the cleaning of from 400 to 500 sacks per day, turned by one man. The simplicity of the machine renders it next to impossible for it to get out of repair, and is such that any ordinary farm hand can take charge of the cleaning. The machine can be readily attached to a thresher, elevating the grain from one machine to the other, or set along side and turned by hand. Extra plates and screens can be used for oats and barley, rendering the barley fit for brewer's use, by taking out the imperfect and broken grains. All kinds of grain or seeds from the smallest to the largest can be cleaned by using plates to suit the size of the grain.

The machine has been fully tested to the satisfaction of numerous practical men who have unhesitatingly accorded to it, all the advantages, claimed for it by its inventor. The machine as it appears in our illustration, has been recently improved, so that by it the separation of barley and oats is made as perfect as it can be done by machinery. The construction of the machine is plain and simple. The hopper A is for receiving the grain; it has a slide in the bottom by which the quantity of feed is regulated, with a spreader underneath for spreading the grain evenly on the plates. The shutes B are each two feet wide and eight feet long, having six perforated zinc plates, in each shute—the wheat passing through the plates, the barley and oats passing over and being deposited in box D; the wheat passes through the openings in the bottoms of the shutes B and returning over the chess schreens of shutes C, of same width and length with the upper shutes B, separating all seeds smaller than wheat, depositing the screenings in each end of box E, and dropping the wheat in the centre. The machinery employed is gear and pinion fly-wheel, main driving shaft G, with reversed cranks, and driving rods F giving a vertical and reversed motion to the shutes.

Any sized machine can be manufactured, suiting the smallest or largest farmer; or for warehouses or exporters for cleaning any amount of wheat per day.

LETTER FROM SONORA.—A correspondent, writing from Sonora, under date of Dec. 31, 1863, speaks in highly favorable terms of the benefits to the copper interests, in that and adjoining counties, which have accrued from the letters of our "Traveling Correspondent." We tender our thanks for the good opinion of "COPPER," who also sends us his real name, but our natural modesty will hardly allow us to give his letter to the public. We merely subjoin the following extract: "I have so much faith in the copper mines of this county, based upon the intelligent reasoning of your correspondent, that I can predict for your paper a large circulation. We can but regard your enterprise as a direct and positive benefit to the whole country."

"A LITTLE LEARNING" NOT "A DANGEROUS THING."

In speaking of science, we are quite too apt to associate with the term a kind of exclusiveness—a sort of an undefined something which is not to be found in the workshop, on the farm, at the mine, or in any of the common walks or occupations of life. By a species of arbitrary custom, science has been chiefly confined to the laboratory, to the library of the professional student or to the higher classes in our collegiate institutions. All this is but a remnant of the exclusiveness of the early and middle ages, when learning was confined to the few and excluded from the many. It has been the great work of the last century to throw off this incubus and to make education universal. The result of this effort has been to effect a complete revolution in the social condition of all christendom; a revolution which has made itself apparent in the prodigious stride which the present and preceeding generation has taken in material progress. There is still remaining, however, quite too much of what may be termed "old fogyism" with regard to science. But the continuance of this condition of things, is owing chiefly to the people themselves, who refuse to accept the precious boon of learning when it is brought to their very doors. A greater fallacy was never uttered than that contained in the oft quoted couplet, beginning with "a little learning is a dangerous thing." A little learning is *not* a dangerous thing at all. It should be the aim of every one to secure all the learning that his or her time and means can command.

The term "science" is too apt to be made a bugbear, conjured up by people, by which they are deterred from attempting to inform themselves beyond the mere rudiments of education. Science, they think, must be left, as already hinted, to the laboratory or study—a thing not to be meddled with by the mechanic or miner. This is all wrong. There is science in everything. There is science in mechanism, there is science in the simplest processes of mining, there is science in every workshop and in every field—nay in almost every act which we perform. There is science in purchasing a horse, in making a shoe or in sinking a shaft. There is science in almost every transaction between neighbor and neighbor. When, by long observation and experiment any one has collected and arranged a mass of facts he has been adding to science. Science is a mass of facts, methodically arranged—nothing more. We are dealing in science every day. Whenever a man obtains a new idea or an additional fact with regard to his business he has acquired so much practical science, every item of which will be of value to him. He may drink as deep as he pleases of the pierian spring, but let him never despise or fear even a *little* learning.

THE LAIRD IRONCLADS, constructed orignally for the Rebels, have been appraised to the British Government, the one at $550,000, and the other at a little over $400,000.

Correspondance.

[Written for the Mining and Scientific Press.]

Crimea House---Copper Mines.

BY OUR TRAVELING CORRESPONDENT.

Mr. Editor :—In finishing an examination of the Knight's Ferry Mines, I proceeded up to the Crimea House, nine miles above on the Sonora road, and some three miles below Chinese Camp. It is the centre of a very important copper section, and during my stay in the neighborhood I made it my headquarters. It is an excellent and well conducted and comfortable hotel. Mr. Brown, the proprietor, is largely interested in copper, and thoroughly endorsed your system of a periodical report of the Copper mines, as the only plan of placing them in a proper position before the public. Indeed, he regarded it so much of a public necessity, that he insisted upon my being his guest during my stay, and supplied me also with a horse. My warmest acknowledgements are due to the family, for their polite attentions.

The mines in the neighborhood of the Crimea House, and thence in a straight line nine miles to the Tuolumne river, and beyond to the Solambo, the only one shipping ore in the district are unquestionably upon the Keystone and Union system. Some doubt this as a matter of fact. I do not. I examined the country from point to point, so as to get the relative positions correctly, and afterwards with the compass, and found everything confirmed the opinion. Besides the Gopher district lies from Copperopolis north of the Stanislaus, the same distance exactly that the Knights' Ferry mines do from the Crimea House south of that river; while it is very apparent where the Massachusetts Hill system intersects the two. No one doubts the Napoleon system goes above Knights' Ferry. For the same reason none *ought* to doubt the Copperopolis system goes to the Crimea House. Were, further evidence needed, it could be found in the same number of veins, their character, position towards each other, and the general similarity in the formation of the valley down to the Tuolumne. If those interested in locating the Copperopolis system *south* of the Stanislaus will examine all of these points as closely as I have done, I think they will agree that the Crimea House and Don Pedro's Bar form the lucky line.

The first mine I visited, a few yards from the Crimea, is the

FLORA.

It contains 4200 ft. divided into 28 shares. Main shaft 20ft. It opens well on gossan, with slight sulphurets below. Work has been suspended until Spring. On the opposite side of the road upon the same vein is the

WINDSOR.

It contains 1800 feet divided into 12 shares. Main shaft eighty feet deep. The croppings here are very handsome, and the vein opens well, but beyond general indications of ultimate success nothing developed. Work suspended. Two miles and a half south east of the above, towards the Tuolumne, on the same vein is the

LALLA ROOKH.

It contains 2100 feet divided into fourteen shares. Two main shafts, respectively fifty five and one hundred feet. This is the pioneer claim of the district, the honor of which belongs to Mr. Jesse Cole. I consider this a first class claim, and think it a pity so little judgment has been shown in its management. This fatal and foolish impatience to strike copper sooner than nature allows is ruinous. It is very conspicuous here. In the fifty-five foot shaft, the first put down, they have everything desirable to show a healthy, large vein, which only required depth to give good ore; yet they quit that, and sink another in a badly chosen place one hundred feet deep from which they are now drifting, or going to drift for the vein. Half the labor expended on the latter, put upon the first, in my opinion would have given plenty of good ore. Work to be resumed immediately. Near the Rookh, on the same vein is the

PADDY ADAMS & JERSEY (CONSOLIDATED.)

It contains 1800 feet divided into twelve shares. Main shaft twenty feet. In its general features, this claim strongly resembles its more advanced neighbors, presenting altogether very favorable indications. Work has suspended until May next. Continuing still south towards the Tuolumne, another mile, we reached the great claim of the section, the

COPPER MOUNTAIN.

It contains 3000 feet divided into single foot shares Main shaft seventy feet, which being too far west is now abandoned for a tunnel. This is already run two hundred and forty five feet, and cannot have more than 30 or 40 feet more to go before cutting the vein. It is exceedingly well worked, a portion of it through hard granite. The rock is pure, and shows itself strongly impregnated with sulphurets of iron, mundic, and yellow sulphurets of copper. This claim is held in high estimation by all parties here, and justly so. The croppings on this hill are remarkably handsome, while the hill itself is well located for shipping ore to Stockton. The present tunnel will strike the vein two hundred and fifty feet below the surface, and if necessary at a future period another can be run below to cut it at five hundred feet. Taking all things into consideration, there seems little danger in predicting this claim the future "Union" of Tuolumne County.

Our party, consisting of Mr. Brown and Dr. Clarke, finished our inspection at this point, and I then proceeded alone to Don Pedro's Bar. Mr. B. has made himself very conversant with the country hereabouts. I found the four veins of Copperopolis Valley, carrying the same position exactly to each other here as they do there, in the middle of Salt Spring Valley, and at Camp Seco. On the following morning, Judge Niles and myself started on horseback to the mines lying south of the Tuolumne river. The first one east of the Coulterville road probably a mile, as you go over the bridge, is the

DON PEDRO.

It contains 7200 feet divided into single foot shares. Main shaft, twenty feet deep. The first portion of this was through a very hard granite. Of course it has been expensive sinking, but the prospects are good. The rock is very pure, carrying strong mundic and yellow sulphurets. The ledge-rock on the surface shows a vein thirty feet wide. This vein runs east of Copper Mountain, and corresponds with the Inimitable at Copperopolis. I think twenty feet more ought to bring them to blue slate, and then the vein will soon develop itself. It is very strong at this point. The claim is under the direction of our old friend Mr. Calberston of Stockton, who is largely interested in copper. He told me he should certainly subscribe to the "Press" when he went below at Christmas; and he is right; for the only way now-a-days, to stand the press of mining, is to take the "Mining Press." Adjoining the Pedro, is the Twenty-one, but as it is in dispute, I did not ascertain particulars, and continued on to the

SOLAMBO.

It contains 3000 feet divided into 3000 shares. Main shaft sixty feet deep, showing a vein from four to six feet. This claim, as I have already observed, is the only one in the district which has shipped ore. I understand some fifteen tons of No. 1 ore have been sent below, and I should judge about the same quantity of No. 2 to be left at the mine. The ore I saw was of an inferior quality, though good for that depth. This shaft is also too far west; and work is suspended, till the company decides whether they will put a new shaft down in the *proper* place, or drift east for the vein which has dipped out. If this mania for drifting through the wall-rock, the hardest of all rock, continues much longer among copper miners, the Legislature had better hurry up *that* bill for County Poor Houses. I have an idea they will be wanted. The Solambo, however, is a good claim. On the continuation of this vein, distinct from the Pedro, at a short distance comes the

KNICKERBOCKER.

It contains 5,100 feet, is in process of incorporation. Main shaft fifty feet deep, showing a vein from twelve to eighteen inches of ore; the balance being mundic. Thus, it is evident, the moment the slate is worked through, the vein will show itself as strong as in the Solambo. Work is suspended until incorporation is completed. A single share in this claim, has a local value of $400. A short distance west of south is the

ILLINOIS.

It contains 3000 feet divided into 3000 shares. Main shaft eighty feet deep. The larger portion of the shareholders reside in San Francisco, and much controversy has existed, whether or not, it were advisable to carry the work on. While, therefore, I express my opinion upon its merits with diffidence, I do not wish it understood I shirk any responsibility attaching to my position. Whether I have, or have not, a practical and theoretic knowledge of copper mining, may as well be proved now as at any other time. There are several prominent men in San Francisco who will know what I mean by these remarks. Decidedly, then I say, the Illinois has a strong, well developed vein, which only requires depth to purify it; that the west wall is distinctly formed; that the *west* drift was a work of folly; that the *east* drift shows when slate will come into the main shaft; and thence how much deeper they will have to go before striking ore. Of that fact, ultimately, I have no doubt whatever. At the same time, I do not think they are on the Solambo vein, but run to the west, between it and the Victoria, where their ledge-rock is very prominent. Some distance to the west is the

VICTORIA.

It contains about five or six thousand feet, and corresponds with the Wann and Hearlem vein, running west of Copperopolis. Tunnel in eighty feet out of 300, which is calculated to strike the vein at 400 feet below the surface. The ledge here is very prominent, showing a strong impregnation of mineral. The location of the tunnel is badly chosen; while the rock is a very hard granite, which will continue. I think, up to the wall-rock. A large portion of that severe and expensive drifting might have been avoided. If they find it necessary to turn the course of the tunnel east, why not have commenced it more to the east and run straight to the vein? Surely the proposition is rational. No work going on when I visited the claim. We now turned to the Solambo, where on the adjoining hill south is the

LIBERTY.

It contains 6000 feet divided into 21 shares. Main shaft 25 feet deep, opening tolerably well on gossan, with a good slate formation, carrying iron pyrites. This claim is under the management of Judge Walworth who owns a large proportion. It is a cross-claim, and the only distinct one I have seen in the entire system. I have not a very favorable impression of the cross-veins, as a principle; though I cannot deny this one has strong, excellent croppings, opens well, and generally looks well. No one deserves better success than the Judge, and I hope sincerely his energy and enterprise may be rewarded.

On the following morning, I went, by request, to examine the mines on Indian Bar, some miles up the river. There are only four here having any pretentions to notice. The first is the

MONTAUK.

It contains 5,400 feet. The vein here shows itself by the river very well, a foot wide, with pure rock, and excellent sulphurets. Nothing, however, can be done with it so near the river; but it may easily be traced up the side hill. Work suspended. The next

THE STATE LIBRARY.

A recent visit to this seemingly antiquated institution gave us much pleasure, and we feel safe in saying that there is no attraction at our State Capital more worthy the pride of our growing State than the extensive collection and great variety of choice works here collected. The dinginess of the cramped up apartments but adds reverential feelings to the reflection of the visitor that he is moving amid a vast congregation of the mental and spiritual, yet living, remains of the mighty dead, and he steps lightly and with noiseless tread through the narrow passages.

The library is situated in rear of the Supreme Court rooms, corner of J and 2nd streets. The entrance is by a flight of outside steps, or iron stairway, from the top of which you pass along a contracted hall, and enter a narrow doorway, which is the only means of ingress to a library which, in its selections, is second to the libraries of but few of the oldest States in the Union. New York, Pennsylvania, Ohio and possibly Massachusetts comprise the entire of these exceptions. In the department of law, California can boast of the best selection of any library on the continent, if we are rightly informed. The number of bound volumes in the library is now upwards of 26,600; not including duplicates. 17,118; of which 7,022 are in the law department, and 10,096 in the miscellaneous department. The number of books added in 1863, is 4,156. The sum of $21,529 has accumulated in the library fund during the past year. This is a large increase over former years, and has been nearly derived from the act passed at the last session of the Legislature requiring the payment of $5 upon the filing of the papers of every incorporated company. Should our incorporations continue to increase as rapidly for a few years to come as they have for the past, the State of California will soon be able to boast of the best library on the Pacific Coast. Valuable additions have been made during the past year. Among others, Kingsborough's "Mexican Antiquities," a recent London publication has been added, at an expense of over $1,400. During the present years we believe it is the intention of the Trustees to add largely to the books of the mechanical and scientific departments, which have hitherto been somewhat overlooked.

If the State Library was removed to a proper location, we are confident that its old visitors would hardly be able to recognize its ancient features, and it is a pleasure to know that when the new capitol is completed, ample and suitable apartments will be prepared for it. Mr. Albert Hart, Deputy Librarian, to whose courtesy we are particularly indebted, informs us that the visits of strangers are much more frequent than formerly. Those who visit Sacramento during the session of the Legislature, will do well to visit this institution. It is open at all hours from 9 o'clock A. M. to 10 P. M. during the session, and from 9 to 4 at other times. W. C. Stratton, the present Librarian is active, courteous and indefatigable in the discharge of his duties. The books are carefully arranged and so classified that any book can be found at instant notice.

Turpentine Factory in Oregon.—An establishment for manufacturing turpentine is about to commence operations at Portland, Oregon. The retort, lately finished at the Oregon Iron Works, weighs 1,387 pounds, and is the largest casting yet made in Oregon.

Turpentine.—Mr. J. W. Jabobson, of Marysville, says the Appeal, has received a State warrant for $800, the amount of premium awarded by the Legislature to the party who should be the first to manufacture a given amount of turpentine in this State. Mr. J. has also taken the premiums awarded by the Marysville, Stockton and State Fairs for the encouragement of the home production of this important article of commerce.

The rage of the multitude in California now runs to silver mining, and everybody who has a few dollars to spare is investing in some marvelously rich mine, in some unpronounceable locality or other. The mining excitement is like that of 1852, which made a few people rich but a great many poor, and gave the business of the State a check from which it did not recover for some time.—*Eastern Exchange.*

Our cotemporary is right with regard to the "marvelously rich mines." The last sales of the Gould & Curry were at the rate of $5000 per foot. There are 1,200 feet only, in this mine, which foots up to the snug little sum of $6,000,000 in the aggregate From the report of the secretary of this company, which has just been published, it appears that the total yield of the mine for the past year has been $3,929,306, lacking but a fraction of *four millions of dollars.* The capacity of the works both for mining and milling will soon be greatly increased, which will of course increase in a corresponding degree the yield of bullion. And yet the Gould & Curry is not the best yielding mine in Washoe, as is sufficiently proven by the fact that there is ground in Gold Hill that will sell for twice the sum which can be obtained for Gould & Curry. To be sure we have "fancy silver stocks" in our market, and many other stocks which people that are acquainted with "fancy" they would like to own. A score or two of mines, only on the Eastern slope are already turning out, weekly, their *tons* of bullion, while we have some two or three thousand which are not yet prospected, but from which we soon expect to add, weekly, *several tons* to the aggregate of the bullion crop. Bye and bye we shall be able to buy out several of the Eastern States, pay off the National debt and if need be, construct the Pacific Railroad, by way of pastime. Our Eastern friends need entertain no fears of any "check" in California operations.

The *Alta,* of Wednesday, proposes that the Federal Government should levy an "export tax" upon all the tobacco which is shipped to foreign ports, and asks—"What is to prevent our Government from compelling France and England to share that revenue [which they derive from tobacco.] with us?"

Nothing but the following extract from Sect. IX, Art. 5 of the Constitution of the United States;—"No tax or duty shall be laid on articles *exported* from any State."

Silver Bricks from Humboldt.—Two fine silver bricks are on exhibition in a broker's window, at the corner of Montgomery and California streets. One of these bricks was obtained from three tons of ore, from the Humboldt Co's claims, in Sierra District, Humboldt. It weighs 1,277 oz. worth $1202.41. The other brick is from 1,900 pounds of rock, out of the Moonlight ledge, and is valued at $329.54. The rock from which both of these bricks was taken was crushed at Fall's Mill. They afford very weighty arguments in favor of the Humboldt mines.

Bullion by the Dray Load.—It would do the eyes of some of our Eastern friends good to see the dray loads of silver bricks which are so frequently carted about San Francisco, from the assay offices to the banks and from thence to the Isthmus Steamers. It is not uncommon to see a good load for a two horse team taken from a single banking house to the steamer in silver bullion, in addition to its gold shipment.

The Ione *Chronicle* says the Newton Co. have stopped taking out ore, for the purpose of re-modeling their working shaft to adapt it to machinery. It will take about three months to complete the work, when the company will be prepared to work their mine to better advantage.

An Apt Comparison.—The London *Times* very aptly compares the proffer by Louis Napoleon of the crown of Mexico to the Austrian Archduke, to a certain offer made by the Prince of Darkness, about 1800 years ago. The arrogant Lucifer didn't own a rood of the mighty kingdoms which he would give away.

COPPER—ITS PRICE AND DEMAND.

Copper at the present time is very active throughout the Eastern Markets, and prices have materially advanced under the increased demand and the great rise in the price of gold. Recent sales, to the amount of 1,000,000 lbs of Lake, Baltimore, and Bergen Port, have recently been made at prices ranging from 35 @ 40½ cents. Holders seem disposed to a still further advance in their prices.

At latest European advices the London and Havre markets were still tending upward. Sales of Chili had been made in the latter at 289f; of Minnesota at 290f, 2½ in cash.

The demand for Copper is increasing at a wonderful rate throughout Christendom, as is sufficiently evident from the above quotations. The consumption of copper in the United States for several years past has averaged about 25,000,000 lbs annually. Last year it increased to 40,000,000. Those best informed say that the consumption for the present year will be largely in excess of the one just passed The estimated product of the Lake Superior mines, which reached the market during the year ending September 1st, 1863, is estimated at only 12,000,000 pounds—not one quarter of the probable home demand for the present year.

Thus it appears that our California miners need entertain no apprehensions least they should find the copper market overstocked by the time they get their mines fully opened. The discovery of copper in California, in fact, has been most *opportune* for the needed supply of an important article of commerce.

A Mammoth Apple Tree.—A gentleman of Chicopee, Mass., has on his farm an apple tree remarkable for its size and productiveness. Its trunk measures three feet eleven inches in diameter, and its top spreads over a circle of one hundred and eighty feet in circumference, so that it is doubtless the largest apple tree in the country. Three years ago seventy bushels of apples were gathered from it. It yielded this year also about seventy bushels.

Oxygen.—The element oxygen forms by weight eight ninths of all pure water; it also constitutes over one half of all the solid material of the globe. About one third of the solid masses of the rocks is made up of oxygen. Two thirds of the entire weight of all the bodies of men and animals consists of oxygen.

Custom House Receipts.—The total receipts of the U. S. Custom House in San Francisco, for the year 1863, foot up $4,688,399 38, of which all but $116,752 12 was paid in coin, for duties on foreign merchandise. The increase of receipts over those of 1862 was $1,300,000.

The heaviest treasure shipment, by any one steamer since 1852, was made by the Golden Age on Monday last. The whole amount foots up at $1,797,792. A large portion of this shipment consist of silver bars sent to Europe for coinage.

Eclipses.—According to the almanacs there will be an almost total eclipse of the sun on the 5th of May next—visible throughout this State. There will also be an eclipse of the sun on the 30th of October next, but it will not be visible in this part of the world.

Heavy Transaction.—W. W. Drummond & Co., of Sacramento, recently purchased fourteen hundred feet of Nevada mining stocks, thirty-two thousand acres of timber and farming land, and two hundred city lots in the city and county of Sacramento. Terms cash.

North American Review.—A change in the editorship of the *North American Review* is announced by Crosby & Nichols. Hereafter that magazine will be conducted by James Russell Lowell and Charles E. Norton.

Summary of Mining News.

GLEANED FROM VARIOUS SOURCES.

There appears to be an unusual dearth of mining news about this time. We append such as has come to hand since our last issue.

Brown's Valley, Yuba County.—The miners of this locality held a meeting a few days since; for the election of a Recorder. Numerous candidates were put in nomination, but B. G. Stockton was finally elected. A resolution was passed forfeiting all claims not represented at the meeting. Of course no resolution of that character, would be enforced by any California Court, and such action can only result in useless litigation.

New Quartz Mill.—The Calaveras *Chronicle* says: "The proprietors of the Heckendorn silver lead at Blue Mountain are now erecting a mill near their claim. The mill will be run by water—has four stamps and one of Hepburn's celebrated pans. The company have built a large house over their mill; the ore will be taken down to the works in a shute, already prepared. The mill will be in running order in about four weeks, and if we are not much mistaken, it will turn out silver bricks that will astonish some of the unbelievers who have persistently decried the Blue Mountain range during the past year."

Odd Rock.—A Virginia correspondent of the Grass Valley *National* says: I was shown some rock, a few days ago, which came from a ledge about eighty miles from here, on the desert. It was singular looking rock, having the appearance of red chalk, coloring the fingers from the touch. It was rich with gold, being completely filled with this auriferous metal. Large sums have been offered for feet in this ledge.

The Mines of Carmen Island.—We have received says the *Alta* a rich specimen of copper ore, coming from the lead recently discovered in the Minnehaha mine. Mr. Penrose, the Superintendent, says he has "found it at last," and that this very rich vein is four feet wide, and well defined. The ore in this lead goes high in percentage, up among the fifties, with silver at the rate of some $50 to the ton. The time, patience, and money expended by the owners seem now certain to return them a well earned reward. Very rich ore has been brought from Carmen Island heretofore, but we believe this to be the first true, well-defined lode that has been found upon this Island. The San Patricio, San Francisco, and Suerte Companies are all progressing with their work, and are much cheered by the success of the Minnehaha.

The Monte Diablo Mines.—The Contra Costa *Gazette* of 2d January says: Our miners are still industriously at work around Diablo. The Mount Zion tunnel is now about 1,100 feet in length, and it is estimated that 75 feet more will reach the ledge. The road to the Keokuk is not quite completed, but the miners have resumed work on the tunnel. The Great Republic is very promising, and improves rapidly. The Superior bids fair to realize the most sanguine expectations of its holders; the ore now being taken out is very good. The Pioneer is also very promising, but for some cause or other, work is suspended for the present. The Summit of Zion company are running a tunnel to strike their ledge at a considerable depth. The above are but a very small part of the claims in Clayton District upon which labor is being expended with encouraging results. In Diablo District, the Unexpected, Horse Shoe, Alpine and others, are vigorously worked, and held in high estimation by their owners. The scarcity of powder is a source of no little embarrassment in conducting mining operations.

Bullion from Arizona.—The delay in getting steamers upon the Colorado, to meet the demands for freighting provisions, tools and ores, has induced the Superintendents of a number of mining companies, in the La Paz and Weaver districts, to put up Mexican furnaces to smelt out the gold, silver and copper, from some of the richest ores, for immediate shipment, leaving the second class ores to be shipped for reduction, here or elsewhere, by some more saving and thorough process, when the facilities for transportation become greater, as they are likely to become before many months more have passed. One hundred and twenty pounds of bullion extracted by this process were sent across the desert from La Paz, a few days since, by one company, and another company made a shipment of nearly the same amount.

Reese River.—Highly flattering reports still continue to reach us from Reese River. New and promising leads are daily being developed and the excitement continues without any abatement. The Amador is just now the center of attraction. The ledge is already developed to a thickness of ten feet of mineral bearing rock, upon the whole face of which, it is said, native silver is discernable. Thirty tons of rock from this mine have been sent to the Fountain mill for reduction. The owners are prosecuting the work of development with energy. This is the proper course to pursue. The entire neighborhood of the Amador mine is reported as very promising, and every day is bringing to light some new development. The Rough and Ready is said to be nearly as large and promising as the Amador. The casing is as hard and smooth as polished marble. The General Banks, Coral, Rough and Ready, Oakland and many other companies, are taking out exeellent rock, and all have very large and well defined ledges. The Black Swan has had a small lot of rock crushed at the Union mill, which yielded $250 to the ton. An application by the Mills, Post & White Company, for an injunction against the Black Swan Company, was on trial on the 20th inst. before Judge Locke at Dayton. The Troy ledge has been stripped for a short distance on the surface, and several tons of rock taken out for crushing. A contract has been let to sink an incline. The *Reveille* says considerable excitement was caused in Clifton a few evenings since by the exhibition of a very fine specimen of gold bearing quartz. The owner said that it came from a place within twenty miles of Austin, but refused to tell where, so that the boys were unable to satisfy their intense desire to get a few feet in the original or even take up an extension. A contract has been let to sink an incline upon Vesta ledge. The work will be commenced immediately, and pushed forward as rapidly as possible. A contract has also been let to sink an incline on the Dunkirk ledge to the depth of twenty feet, work will be commenced immediately. Some of the rock was recently crushed and a very flattering yield was obtained. Brook's mill has been crushing rock from the Union No. 2. The mill is provided with five stamps and four large pans. The Tesoro ledge at a depth of thirty feet is four feet wide; some 300 pounds of rock from this ledge recently crushed at the Fountain mill yielded $500 per ton, about one-fourth of which was in gold—an unusual circumstance among Reese River ledges. The *Reveille* of the 31st ult. says that the Oregon mill, owned by O'Neil, Frost and Co., was started on the 30th. Everything worked beautifully—all the complicated parts of the machinery working properly in their proper places. The building is a substantial structure, and is sufficiently large for all purposes. The engine is of fifty horse power, and the stamps, ten in number, weigh over five hundred pounds each. Eight iron pans, each five feet in diameter, have been put up. The mill is supplied with everything requisite to do first class work. It commenced work on rock from the North Star ledge.

More Bullion.—We saw, day before yesterday, says the *Reveille* of the above date, at the banking house of Paxton, Thornburg & Co., ready for shipment, five large and fine looking bricks. One weighing 601.15 ounces, 949 fine, and worth $737 60, had been obtained from second class Union No. 2 rock. Another wheighing 244.80 ounces, 932 fine, and worth $294 98, was from the Ethan Allen. Another weighing 165.82 ounces, 985 fine, and of the value of $211 17, was from the Whitlaeh Yankee Blade. The two others were valued respectively at $269 52 and $97 61. Keep them coming. The Revenue Company, Bathurst ledge, are having ten tons of ore crushed at Thomson's mill, which promises a large yield. The company are energetically at work on the mine, having a shaft down twenty feet where the ledge is four feet wide and widens as it goes down. Forty feet of the ledge is stripped eight feet in depth, and looks well. The Essex ledge was located last June. It is situated just north of the road, in the western end of upper Austin. A prospecting shaft is now thirty-five feet deep, and it is thought will strike the ledge in a short time. Work is being carried on. Mr. Davis, of Cañon City, has sold his mill-site in that town. The purchasers, Condee, Brewster & Co., intend building a fine steam mill immediately.

Humboldt.—Encouraging reports are coming in from the Humboldt country. The silver bricks at the corner of Montgomery and California streets, elsewhere described, are attracting considerable notice. The Humboldt *Register* of the 26th ult., says Wells, Fargo & Co. shipped on the Monday previous 88 lbs. of bullion, worth $1,300. $130 to the ton would be accounted good silver ore, in most countries. Also that the Lang Syne mill has quit work for the present to put in new machinery. The ledge formerly had so large a preponderance of gold over other metals, that it was thought unnecessary to put in pans for saving silver. As they get down, however, the gold gradually gives place to silver, and it is now found to be a great waste to run this silver off in the tailings. The pans are at Star and will soon be in their places and at work.

The *Regsiter* gives encouraging accounts from Echo District. The Masonic Ledge is pronounced valuable; a few days work has developed a vein over three feet in width and greatly improved in appearance from where it was first opened. The Washington Series, comprising three large veins, shows good mineral, although but little work has yet been done. The Wilson is pronounced the "big thing" in this district. It is over 25 feet wide! The quartz is of a reddish color, and all contains gold; while all through the ledge are veins of different kinds of silver-bearing minerals; some of them containing galena, others containing black, brown and gray sulphurets of silver; and close to the western, or foot wall of the ledge is a well-defined vein, very rich in chloride of silver. The company has, under the able management of the foreman, Mr. Gouchat, started a tunnel which will strike the ledge at a depth of four hundred feet, and also cut the Ferguson ledge (another ledge belonging to the Wilson company) at the depth of three hundred feet. This tunnel will be about six hundred feet long when it strikes the Wilson ledge. It is now in eighty-three feet.

Fall & Price's mill, at Unionville, has been running successfully, with the following results:—

The Monitowac has yielded from $375 to $400 per ton. The Gem of the Sierras yields from $225 to $300 per ton. The Ne Plus Ultra yields from $200 to $300 per ton. The Ophir, one of the ledges in the Empire Tunneling Co., yields from $206 to $225 per ton. The Mars, which they are now working and crushing, yields from $100 to $112, but this was refuse rock which has been thrown to one side. This ledge will average much higher than that. The Minnesota Gold Ledge yields $125 to the ton. These are the results of the working of from five to ten tons of each ledge, and none of this ore has been taken out at a greater depth than eighteen feet from the surface.

Many other ledges in this region have been thoroughly tested by the regular working process. There has been no time in the history of the Humboldt mines, since their discovery, that the future looked so promising as now; and there is no people more confident of success than the miners of Humboldt.

Owen's River.—The latest accounts from the Owen's River region are highly encouraging. It appears that the Rhode Island, Halleck and Governor Low claims are likely to prove valuable. Mr. Geo. B. Perry, agent for the Union Mining Company was at Aurora a short time since, on business connected with the company. He gives encouraging accounts of the mines. A correspondent of the *Alta* writes from Bend City, that the Union Mill is now in operation, with eight stamps at work, crushing gold rock from the Eclipse Lead, a short distance off. Although steam is used at this and the Ida Mill, one mile above, it is the intention to make use of the abundant water power which the river affords for the entire length of the district, sufficient to run any quantity of machinery. Numerous parties are await-

ing the completion of the Owen's river canal, to avail themselves of its hydraulic facilities, and the company should hurry up the work as fast as possible. At this place, which is located in one of the numerous bends of the river, three months since, not a house beyond the tule and willow huts of the prospector were to be seen; now about thirty well built houses are in view—adobe structures, it is true, but neat and substantial as the best brick structures.

The Visalia *Delta* of a late date says: Owen's River Valley must be getting populous, judging by the numbers continually passing for that destination. No less than sixty-five teams, besides horsemen, have passed within the last thirty days. We learn by Hanks, Passmore and others that new and rich discoveries are continually being made, and the work of development goes briskly on. Col. Stevenson, recently from that region, takes with him to New York rich specimens, amalgam, etc., which he confidently believes will enable him to procure a million of dollars capital to enable him to operate in the Russ and Inyo districts. Capital is all that is required to make that the leading mining district of the State.

Annual Report of the Gould & Curry Mining Company.—From the annual report of the late President, Jno. O. Earl, Esq., we glean the following interesting facts: During the past year there has been delivered from the mine 4,812 tons of second class ore to the company's mill, yielding $1,520,651 53—$316 per ton, and to various other mills 43,907 tons third class ores, from which have been extracted $2,400,204 87—$54 56 per ton; 24½ tons first class ore, valued at $2,800 per ton, have been shipped to England. From assays made daily the ores worked have averaged in value about $400 per ton; the amount of metal extracted, $316 per ton. The cost of reducing the ores is about $38 per ton. The quantity of ores developed in the upper works has steadily increased, in addition to the large bodies continuing below. The new improvements to the reduction works are to be completed within thirty days, and eighty stamps will be in successful operation the latter part of March next, enabling the company to reduce about seventy-five tons of second and third class ores every twenty-four hours, producing a large amount of bullion, and at less expense. The cost of mining the ores, including all expenses, does not exceed $8 per ton. The Company have now on hand fully three years' supply of fuel. The managers are recommended to sink and prospect the lode to an additional depth of five hundred feet. The assets of the company, exclusive of bullion on hand and balances in the treasury, are valued at $1,360,000.

Paper.—The paper upon which we are now printing the Press is the best that can be obtained of its size in this market. In strength and whiteness, it will be observed to be of a superior quality. In order to secure a heavier article designed to be used by us, we have sent our orders East, with the intention of importing our own stock. With the abundance of excellent material going to waste in California, we regret to acknowledge that there is no paper mill on the coast that yet furnishes a superior quality of printing paper.

Important Decision.—An important decision was made by the General Land Office, on Wednesday last, and announced in this City by telegraph, the next day, involving the title of the site of the city of Red Bluff, California, in which Granville Doll was claimant, and the citizens of Red Bluff contestants; the case being an appealed one from the Register of the State. The decision is adverse to the claimant.

The Aquila.—The effort to run chains under the Aquila have not yet succeeded, although hopes are still entertained that the object will be accomplished. No answer to propositions on this side to raise the ship have yet been received. The divers which have been sent out by the Government and the underwriters are expected on the next steamer.

[Written for the Mining and Scientific Press.]

From Owen's River.

Owensville, Key's Mining District, }
Owen's River Valley, Jan. 1, 1864. }

Messrs. Editors:—Thinking that a few lines from this new and distant mining region might be interesting to the many readers of the Mining and Scientific Press, I send you the following.

A little more than a month ago, the Indians held undisputed possession of this part of the valley, having killed some of the prospectors and run the others off. But the supposed wealth of the hills could not be given up, and now there is a town of sixty inhabitants. The climate is considered superior to any locality on the Eastern slope. The valley is ten miles wide, and is well watered by Owen's river and other small streams running from the mountains on either side. We have a large share of agricultural land; Bishop's creek, a large and beautiful stream which flows from the Sierras, waters a tract of fertile land four miles long, by a little more than three in width, which is fast being settled up. The river is bordered by splendid grass land. The mines are thought to be exceedingly promising. The ledges are numerous and full of metal, but we have not tested them sufficiently to know what kind, or what proportion of the different metals they contain. Gold, silver, iron and lead are found. Many energetic prospectors are out among the hills every day, making new discoveries. There are two companies now operating. The Rubicon company, superintended by Mr. John Evans, of your city, are working four of their ledges. The Last, Manhattan, Twin Sisters No. 1 and No. 2, is being worked night and day. Their prospects are highly flattering. The San Francisco company have their buildings up and are ready to commence on their ledges. I think the mineral wealth of our hills, connected with our agricultural resources, will soon make this a place of note.

Subscriber.

Assessment and Sale of Mining Stock.—In the Senate, on Thursday, Mr. Haskin introduced the following bill:

Section 1st.—The Secretaries of all Mining Companies within this State, when advertising the assessment on the stock of their respective Companies, or when giving notice of sale or account of any delinquency, shall name the District in which the mining ground is situated.

Section 2d—Repeals all former conflicting acts.

Some Legislative action similar to the above is greatly needed. We have repeatedly called attention to the evil which the above bill is calculated to remedy. The bill, however, is not quite as full as it should be. We would suggest that the bill be made applicable to all mining notices whatever, where the name of the mine or company is referred to. The notices calling the annual meeting of stockholders for the choice of Trustees, etc., should, by all means, be included.

Important Military Order.—A military order has been issued from Headquarters of the Pacific Department, notifying all persons on Catalina Island to vacate forthwith. The object of this order does not appear. A reasonable conjecture is that the island is wanted by the Government for fortification purposes. It is evidently a very important position for such employment. The order, however, must work a great hardship to those who have commenced mining operations thereon, as we understand considerable capital has been expended, and most encouraging developments already made. Captain West, with his company, was to take possession of the island on the 26th ultimo.

The Phœnix Fire Insurance Company, of Hartford, is one of the oldest as well as best in America. Mr. R. H. Magill, general agent for the Pacific Branch, is introducing a new system of conduct in the insurance business here, which cannot fail of success, and rendering the Phœnix a favorite and foremost company.

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Important Improvement
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The bound volumes of the Press will find no rival in value to the intelligent and industrious citizens of the Pacific Coast, who cannot but feel a source of pride in the history of the inventions, discoveries and prosperous developments of the remarkable era through which we are now passing.

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As presented in our columns will be found correct, distinct and most convenient for preservation and future reference.

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Friends pleased with our efforts in the publication of the Press can render us essential aid by furnishing correspondence and all important information which may come under their observation, and by calling the attention of their neighbors to the commendable features of the paper; the appreciation of which favors will be duly manifested by the constant improvement of our journal.

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We are the Sole Agents in this State for the celebrated Worthington Pump, an assortment of which we keep constantly on hand. We have just received from the East a fine assortment of Cast Iron Fence Patterns, suitable for yards, balconies, cemetery lots or graves. We shall continue to do our work in the best manner and at the LOWEST CASH PRICES, hoping thereby to receive a just share of public patronage. I-3m

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Working assays made of small lots, and all kinds of ores crushed at short notice.

Our new and complete Machinery, will enable us to give results fully up to the merits of rock.

WHEELER & THAYER, Proprietors.

C. C. JONES, Amalgamator.
San Francisco, Oct. 13, 1863. j2tf

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Pacific Mail Steamship Company.

THE FOLLOWING STEAMSHIPS WILL BE DISPATCHED FROM SAN FRANCISCO IN THE MONTH OF JANUARY, 1864.

Jan. 4—GOLDEN AGE,.....Wm. F. Lapidge, Commander.
Jan. 13—CONSTITUTION,.....J. T. Watkins, Commander.
Jan. 23—ORIZABA,.....E. T. Farnsworth, Commander.

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FOR PANAMA.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company.

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aug17-tf Masonic Temple, No. 6, Post Street.

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Mining Agency.

C. W. TAPPEN,.....General Agent.

"Headquarters," Mesquit Springs.

Will attend to any business connected with these mines for a reasonable consideration.

LETTERS OF ENQUIRY, containing Revenue or Postage Stamps to the value of fifty cents, and enclosing an addressed envelope for reply, will be promptly attended to.

The subscriber has a carefully prepared map, (and specimens,) of each lode in the district, a portion of many of which are for sale at a very low figure.

For further particulars he would refer to J. Burnet, Esq., 425 Davis St., San Francisco, Cal. C. W. TAPPEN.
El Paso, June 21, 1863. an31-tf

WM. H. MEAD, THEODORE VAN TASSEL.

MEAD & VAN TASSEL,

HATTERS,

Montgomery St., corner of Commercial,

SAN FRANCISCO.

TO OUR FRIENDS AND THE PUBLIC GENERALLY:—HAVING purchased the entire interest of Messrs. Fishers & Co., in this city, we shall, on the 1st. day of May assume the management of the

HAT EMPORIUM

so long conducted by that firm.

MR. WILLIAM H. MEAD, for the last seven years salesman with Messrs Fisher & Co., respectfully solicits a continuance of the patronage so long and liberally bestowed upon the old House, feeling entire confidence in our ability to suit in every particular.

MR. THEODORE VAN TASSELL, for eight years with Messrs Le Gay & Co., would be pleased to see his friends at his new place of business.

The long practical experience of Messrs. Mead & Van Tassel in the Trade justifies them in saying that their work cannot be excelled either in finish or durability. Having perfected arrangements, we shall be in constant receipt, by every steamer, of soft goods of the very finest of FRENCH AND AMERICAN MANUFACTURE. Our Stock on hand is superb.

Call and examine, and judge of the merits of our claim to the title of "LEADERS OF FASHION."

Respectfully, MEAD & VAN TASSELL.
no2-tf. Montgomery street, cor. Commercial.

WHEELER'S

Amalgamating and Separating Pans.

IT IS ACKNOWLEDGED BY ALL WHO HAVE EXAMINED the principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.

The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metals arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the trituration this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.

Where these Pans have been introduced and operated by the side of others on sands from the same vat, the Wheeler Pans have uniformly gained a large percentage of metals over its competitors, as well as a still larger percentage in the amount of work performed.

*** These Pans may be seen in daily operation, at the Miners' Foundry, on First street in this city, where all interested are invited to call and examine for themselves.

no16-tf ZENAS WHEELER.

To Quartz Miners.

ALL PERSONS INTERESTED IN MINING MACHINERY ARE invited to call at Donahue's Foundry and examine my improved Amalgamator. It is unquestionably superior to anything now known for amalgamating Silver and Gold. It works 1000 pounds at a time, and will amalgamate over three tons a day. By the motion of the revolving muller, the pulp is drawn through its centre and passes under it, between the grinding surfaces, to the circumference; from whence it passes again over the muller to the centre, through the holes and between the grinding surface to the circumference as before. Thus a constant circulation of the pulp is kept up, bringing the particles of ore again and again under the muller, and reducing the whole mass to an impalpable powder.

No quicksilver lies between the surfaces to be ground, but at the circumference and centre of the pan where the metal must pass through it as the pulp circulates.

A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S. Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.

sep21

A New and Valuable Book.

PROCESS OF SILVER AND GOLD EXTRACTION, BY OUIDO Kustel, Mining Engineer and Metallurgist, former manager of the Ophir Works, &c.; 350 pages octavo illustrated.

This admirable work has met with the highest commendations from the Press and Scientific men, as a clear and able exposition of the science as practised in California and Nevada Territory. It is written for the people in good plain English and finely illustrated.

Price—post paid—Cloth $6; Sheep $7.

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Quartz Mill and Reduction Works.

GOLD AND SILVER ORES WORKED AT REASONABLE RATES, and Working Assays made of small lots. All kinds of ores crushed at short notice.

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Office at the Mill, South Beach and Third St.
je13 tf. W. R. WATERS, Secretary.

THEODORE KALLENBERG,

Maker of Models for Inventors.

MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.

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Gun Makers and Dealers in Gun Materials,

REPAIRING DONE IN A WORKMANLIKE MANNER AT THE shortest notice. Gilding, and also Silver Plating, by E. Ekland.

733 Washington St., San Francisco, [one door above Kearney.] je21-tf

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R. W. MYERS & CO.,

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Do Job Turning and Scroll Sawing.

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DR. H. AUSTIN, DENTIST,

No. 634 Washington Street, Between Montgomery and Kearny,

(OVER SAN FRANCISCO BATHS.)

I HAVE RECENTLY RECEIVED FROM LONDON, A NEW AND Beautiful Vulcanite (India Rubber) for Artificial Teeth, which is far superior to any other ever used. It is light, cleanly and durable, and of a natural color. The cheapest and best material for temporary (and in many cases) permanent sets. All operations thoroughly performed, and at reasonable prices. je29

INDUSTRIAL FACTS.

Steam Carriage.—One of the latest achievements of American invention is, what appears to be a practicable steam carriage for common roads. It is a Boston invention and has been exhibited at Agricultural fairs, on race courses, and upon the country roads of Massachusetts. It recently made its appearance on Broadway, in New York, and at latest accounts was to test its speed on the famous Central Park. The general appearance of the vehicle is that of an ordinary wagon, with a double seat in front. Just behind the seat are the boiler and engine, occupying about the same space as the reservoir of a soda fountain. The furnace hangs within a foot of the ground, and, when the door is open, a fresh current of air is admitted to the fuel while the carriage is in motion. The motive power is applied to the axle of the hind wheels. The steering is done by a crank, which deflects the front wheels to the right or left, at the pleasure of the driver. With a pressure of twenty pounds to the inch, this engine will propel the carriage, with a two-horse power, at a safe rate of traveling. Plank and macadamized roads offer the best opportunities for speed, of course; but any sandy, or muddy, or steep road, can be traversed by the steam carriage as readily as by a span of horses. The engine needs watering about as often as a horse, and takes in about the same quantity. The cost of running is estimated at one cent a mile. The cost of the carriage and engine it is estimated will be about $1600. The maximum speed of the machine is estimated at a mile a minute and a half, with a smooth road, and everything to favor.

Telegraphic.—If mechanical appliances do not fail the projectors, England will, by next spring, be in telegraphic communication with Madras, Calcutta and Bombay. The governments in prosecuting this work has proceeded so quietly, that with the exception of a few scientific men, the near completion of this work was, until quite recently, scarcely known outside of its projectors and their employees.

Mr. Steers's Swift Man-of-War.—The swift steamer which Mr. Steers recently contracted to build for the Government was commenced some weeks since, and is now well advanced. This craft will be the fastest, it is presumed, in the navy, unless Mr. Delano's ship should beat her. She will be over three hundred feet in length, and probably three thousand tons burden. Persons who ought to know say that she will be able to steam twenty miles an hour.

Small as Connecticut is she can boast of having nearly 3,000 industrial establishments, and a capital to the amount of $57,000,000 in manufacturing business, giving employment to 60,000 hands. If we add together all the industrial products of North Carolina, South Carolina, Georgia, Florida, Alabama, Texas, and Mississippi, then Connecticut is $20,000,000 in advance of them all.

Mints of the United States.—The mints of the United States have coined since they commenced operations—a period of less than seventy years—the large amount of eight hundred millions of dollars—about one-fifth of the whole metallic currency of the world. Of this amount five hundred and twenty millions of dollars were derived from the mines of the United States.

Large Locomotive.—The largest locomotive in the United States, if not in the world, has been built for the Philadelphia and Reading Railroad Company. It has twelve driving wheels, 43 inches in diameter. The cylinder is 20 inches in diameter, and the stroke of piston 26 inches. The weight of the locomotive when in running order is 105,320 pounds. This locomotive is intended for a pushing one, to force heavy coal trains up the road.

A waterproof floating mail bag has been patented in Liverpool. It is made of the best duck, impregnated with caoutchouc. When filled with ordinary mail matter, with the addition of two bricks, it was perfectly buoyant. The inventor says that he can make the whole contents of a ship's mail room buoyant and connected together so as to form a raft or buoy in case of necessity.

New Mechanical Appliances.—Instead of riveting the plates of steam boilers, efforts are now being made to weld the plates, thus to produce the boilers free of joints. The method to effect this is to heat the edges of the plates to a welding heat with gas flame, and hammer them together. A small Cornish boiler has been finished by this method. In forming the deck beams of the iron frigate *Warrior*, the webs of two T irons were joined together by a bar of H section, called a glut, which, with the edges to be welded, were raised to a welding heat by jets of gas flame; the whole was then welded together, uniting the angle irons and deck beams into solid forgings, instead of bolting or riveting them together. In the building of iron vessels this system deserves universal attention.

Annual Treasure Shipments.

During the year 1863 the following shipments of treasure were made by the Pacific Mail Steamship Company, from this port:

	Through Treasure.	England & Panama.
Jan'y 1	$ 393,498 35	$1'086,863 56
Jan'y 10	501,860 87	591,027 53
Jan'y 21	354,921 29	1,377,691 03
Jan'y 31	273,417 69	1,197,679 77
Feb'y 11	1,272,721 43	917,847 87
Feb'y 21	212,857 66	1,046,507 38
March 2	164,561 59	716,742 95
March 12	257,728 04	585,161 64
March 23	214,862 97	896,794 21
April 3	283,025 83	851,691 06
April 13	195,697 06	617,963 61
April 23	302,046 38	792,672 67
May 2	253,510 91	756,678 15
May 13	305,105 69	854,158 69
May 23	283,580 94	910,603 56
June 3	184,484 23	771,214 43
June 13	241,589 24	948,830 09
June 23	180,257 43	1,020,060 16
July 3	279,680 00	768,893 60
July 13	281,535 18	607,559 63
July 23	308,235 60	901,993 69
Aug. 3	215,366 19	845,153 28
Aug. 13	269,852 94	729,932 73
Aug. 22	181,700 56	833,184 03
Sept. 1	273,621 38	1,180,586 08
Sept. 12	263,867 26	387,725 23
Sept. 23	258,191 71	1,161,476 46
Oct. 3	246,231 74	1,348,105 83
Oct. 13	247,566 56	935,769 63
Oct. 23	228,340 29	505,214 48
Nov. 3	229,978 47	599,288 63
Nov. 13	301,109 09	594,201 21
Nov. 23	294,900 04	1,093,074 97
Dec. 3	248,107 01	894,195 29
Dec. 12	236,583 36	1,112,966 61
Dec. 23	334,935 93	1,271,501 31
	$10,390,229 65	$31,179,465 01
Total shipments to New York, England and Panama...		$41,569,788 67

For the information of our readers we give the shipments of treasure since 1849, and including that year:

1849	$ 4,921,250
1850	27,476,346
1851	45,882,033
1852	46,586,132
1853	57,331,024
1854	51,328,335
1855	44,610,090
1856	51,142,238
1857	49,300,187
1858	43,897,199
1859	47,661,209
1860	42,303,315
1861	40,639,040
1862	42,980,809
1863	41,569,783
Total	$637,902,554

The shipments to China and other points by other vessels than those of the Pacific Mail Steamship Company, are included in the total shipments of the year previous to 1863. If these were included in the estimates of the last season they would swell the gross amount to a total not greatly below that of any previous year.—*Alta.*

Where Does the Rain Come From?—Mr. Glaisher, in England, recently made a scientific ascent in a balloon in a rain storm, to study the rain in the place where it comes from: "On the ground the rain drops were as large as four penny pieces upon his note book; a little higher up they merely dotted it like pin points; higher, still it was a Scotch mist, or wet fog; yet higher the fog was dry, and at 3,500 feet the balloon was out of rain, though it was falling on the earth. Above them, even at that elevation, was the stratum of cloud which science, without ever having seen, had daringly predicted as always above 'the overcast' of a rainy sky; and at the height of 1,000 feet, in descending the balloon was in a current of wind from one quarter, and the car in another from one nearly opposite—southeast and southwest respectively; in other words, the Columbus of the clouds had sailed into the eddy between the confluent currents of atmosphere which were mingling their temperatures, and thus disengaging some of their moisture for the behoof of the cornfields and pic-nic parties below."

Encourage Home Industry.

The Marysville *Appeal* has a very sensible article under the above head, wherein it very properly takes the last Legislature to task for want of discrimination in its award of premiums for the encouragement of home industry. The *Appeal* says:—

"The premiums offered reach out beyond the scope and capacity of our State. There is no practibility or common sense in offering premiums for products which are not adapted to our climate or soil, and which never can be productive of gain to the producer, or reward labor by enhancing wages. Who believes that the farmers of this State can compete with the islands of the Pacific, on the Southern States, in sugar or molasses making? Who believes that Chinese Sorghum growing can ever be made a profitable business in California? what use or benefit is there in offering $500 premium for 500 pounds of sugar from the sorgum plant? Or, $500 for 200 barrels of molasses from the same? The sugar can be raised, the molases manufactured, but we confidently believe that such a crop will not be practicable or profitable with the farmers of this State. The same can be said of flax and hemp, for which $2,000 is offered an each. So with cotton, for which $3,000 is offered for the first 300 bales of 300 pounds each."

"The *Appeal* adds: "A premium on tobacco, hops, broadcloths, tweeds, cassimeres, woolen blankets, carpets, sacks, drawers, undershirts, boots and shoes, tar, resin, pitch, spirits of turpentine, paper, glassware, seems more sensible to us, because all these articles can be raised or made, with profit, after the premiums are exhausted. But it is nothing but a waste of money and labor to offer premiums on products and manufactures utterly impracticable. Who is simple enough to suppose that Californians can compete with the Chinese in tea raising, or rice growing? If our soil was adequate, who wishes to put labor at less than ten cents a day in order to drive out these foreign products? Will it not conduce more to our general prosperity to plant our soil with crops certain of producing a remunerative reward, and which tend to advance rather than depress the labor of the country?

There is no question but that this act of 1862, needs amending. The mining interest, the great leading interest of the State, is entirely ignored, if we mistake not, in this "Act of Encouragement." The same may be said of our mechanical interests. Give encouragement to the miners and mechanics, as well as to the farmers. We can have neither cheap board, nor cheap clothing, without machinery. Our mines, especially our quartz mines, are sadly deficient in effective machinery for reducing quartz and saving gold and silver. Why not encourage our mechanics to get up such improvements. We says with the *Appeal*, "Let the Legislature offer a premium for improvements in machinery, domestic wares, agricultural implements, wagons, plows, mining machinery, implements for amalgamating gold, sluices for mining the immense quantities of auriferous sands in our rivers and ravines. Give smaller premiums, and offer inducements to all the common and practical business of the State. Let us buy our tea, sugar and coffee—wear woolen instead of cotton—make our own machinery—tan our hides and manufacture our own boots and shoes—feed the world with our surplus wheat which grows in such profusion—mine our rich lodes—confine our labor at home, and cultivate productions adapted to California soil and climate."

The Ainsa Aerolite, which was for some time on exhibition on the Custom House steps in this city, has been received at the Smithsonian Institute, in Washington, and is attracting much attention. It is in the shape of a ring, the greatest diameter being over four feet. Its weight is fourteen hundred pounds. It was presented to the Institution by the Ainsa family, of California, and will be known as the "Ainsa Meteorite." A full analysis of the Meteorite will be published by the Institution.

Stuffing for Mattresses, Etc.—H. C. Croudal of New York, has obtained letters patent for a peculiar manner of treating cork waste, whereby the same is rendered soft and elastic, and particularly adapted for mattresses, its principle advantages being its coolness, cleanliness and immunity from vermin and moisture. It is particularly adapted for hotels, and army use. Its peculiarities also render it highly desirable for use in the mines.

Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

DEWEY & CO., Publishers.

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SAN FRANCISCO:

Saturday Morning, January 9, 1864.

BEGINNING OF THE YEAR.

THE NEW YEAR opens under highly favorable anspices for the mining interests of the Pacific Coast. Money is easy and the amount of capital seeking investment in this direction is unusually large. The war cloud which has long hung over us with such terrible gloominess, begins to show evident signs of breaking away. A victory has recently been achieved by the Union forces greater than any that arms can boast of in recent times. Thanks to the prudence and firmness of our government, willing justice has been obtained from a great European power, and confidence and fraternal feeling once more established between two nations speaking the same language and occupying foremost positions among the nationalities of the earth.

Melancholly is giving way to animation everywhere. Industry is prosperous throughout our State and the world. The metal market, so intimately connected with California industry, was never so buoyant as at the present time, and the future for copper, as elsewhere noticed, is most promising and hopeful for the growth and development of that important branch of California mining. The mining share market of this city is unusually active, and never more elated over rich developments than at this present writing. That we possess extensive and sound mining operatious, to which we can look for large and lastiug profits is now generally conceeded both at home and abroad.

The first annual exhibit of the Gould & Curry Mining Company, which has just been laid before the public by the President and Secretary, affords a most convincing proof of this fact. This company first commenced shipping bullion from its works in February last, and the report before us already foots up an aggregate gross yield of the mine, for the year ending the first of December last, to within a fraction of *four millions of dollars!* The amount of dividend declared for the seven months ending with the above date, is set down at $1,464,400. This is surely a most astonishing exhibit for the first year of active operations, and is without a parallel in the history of mining adventure. It cannot fail to add largely to the growing confidenee in our silver mines in the Atlantic and European markets.

The experience of the last few months has taught our people, especially those seeking mining investments, many important lessons in the art of distinguishing between legitimate operations and those of a worthless character. It will always be the aim and object of this journal to so employ its efforts as to save its readers from losses and direct them to safety and profit; this end will ever be kept steadily in view, whether we are looking to operations "on 'change," or to the more active labor in the field of pratical mining.

It is with pleasure that we look upon this cheering and hopeful picture at the beginning of a new year. Let us hope that our anticipatious will be more than realized and that the commencement of another year may find us not only prosperous in our industrial pursuits, but cheerful and joyous over a united, peaceful and happy country.

THE CALIFORNIA TEACHER.—The seventh number of this valuable publication has come to hand. It is well filled with instructive and entertaining reading

HOME vs. DISTANT MINES.

While we fully appreciate and acknowledge the general benefit that has accrued to the country at large from the disposition which has been so universally manifested during the last two or three years, to seek distant mining fields both for prospecting purposes and for investment, we cannot witbold the expressiou of an opiniou that our people are beginning to neglect home mines. Rambling off into distant regions in seareh of that wealth wbich may be found with almost or quite equal profusion at home, may be a good thiug for the general advancement of our Western Empire, but we apprehend that it has been carried to excess. Many thousands of our population, during the past seasou, in particular, have gathered togetber every dollar they could raise and gone out into the great deserts on our Eastern or Southern border, with barely means to take them there. Disappointed in the object of tbeir search, they have been compelled to undergo most extraordinary privations in order to sustain life or work their way back to their former homes, to escape the still greater sufferings which awaited them from the approaching rigors of a mountaiu winter. Many hundreds, doubtless, have found lonely graves in those distant regions, of whose taking away no tidiugs will ever reach their friends "at home."

This style of thiugs, we trust, has had its day. It is time our people learned that the leading prizes iu the great lottery of mining are few in number and seldom attainable except at a great outlay of money, time and patience. Better, as a general thing, let well enough alone; be satisfied with a steady paying business, even if it is but small, so long as it is sure.

We have in California as good miues, in tbe general average, of either gold, silver or copper, as can be found outside, far or near. We may not have a Comstock in California, neither has Nevada Territory an Allison Ranch or a Massachusetts Hill gold mine. With few exceptious a silver mine has to be opened and proved at great expense before it can have any material value or produce any important returns. Things are very much changed from what they were only a few months ago. Men cannot now go out and hunt up a uine and sell it for a large amount of money on the strength of a few specimens of silver ore. Money, skill and work must now be expended on a mine to give it value. To those who would place themselves on such a platform, and who desire to engage in legitimate mining, California affords quite as good a field as either Washoe, Reese River or Mexico. First, there is here better legal security; the prices of freight on miniug supplies and of labor must always give California a great advantage over distant mining fields. Again, the California miner, as a general thing, finds more home surroundings, more social enjoyment and greater moral restraints, than are met with in the regions to whicb we refer. How many of the twenty or thirty thousand people who have crossed the mountains the past season, have bettered their condition or even their prospects by so doing? On carefully casting about, each one for himself, we venture to say that the number will be found to be few—very few, and vastly disproportionate to any similar number who have continued in steady occupation in their accustomed localities. The aggregate weight of disappointment which has settled upon our people by reason of want of success in distant prospecting operations during the past two years, would be absolutely fearful to contemplate were it not for the brilliant success which has attended the fortunate few. That the disappointments are not absolutely overwhelming, is only to be accounted for from the fact that the success of the few has been sufficient to give living employment to a large portion of the many who would otherwise have been subjected to the utmost extremity of need.

In making these remarks we would not wish to be understood as speaking at all disparagingly of our distant mines or as discouraging adventurous prospecting. We simply desire to throw out these hints as a warniug against undue risks of this description, by those who can illy afford to meet with disappointment. To all such we would say, if you have anything like a paying claim, or remunerative employment of any kind, *don't leave it.* Let the prospecting be done by those who are able to do it—pecuniarily and physically able. When those distant mines are fairly opened, then will be the best time for *you* to go thither—if to prospect and to fail, you will then have a field of labor opened up around you, which will save you from the terrible ordeal which has awaited so many who have already ventured unwisely and to their sorrow.

California Copper Smelting Works.

Some three or four months ago a company, bearing the above name, started their furnaces at Antioch, on the Sacramento river, with a view of concentrating poor copper ores to a rich regulus, and we were confident that they were going to accomplish something; but from one cause and another we have not been able to get any reliable report of progress to place before our readers. To-day, however, we have a few items upon which we can depend.

The copper works started, and the great obstacle to be overcome, the coal, was easily surmounted. The heat was excellent, when they burned the best of coal, but when they attempted to use the screenings, the heat was very poor indeed. Any company starting a similar enterpris emust despair of success except by using only the best of Diablo coal.

The first regulus taken out of the furnaces, at first, assayed 30 per cent. in copper. This being rather low the Company erected a calciner, so that the ore might be roasted in order to get rid of the sulphur. The first charges from the calcined ore, mixed with carbonates and oxides of copper, from various parts of the State, produced a regulus assaying 75 per cent. in copper. This was too rich to work economically. Several other charges produced 60 per cent. in copper. The average produce of the regulus for some time assayed 46 per cent.

It is true the furnace did not work so much ore as the furnaces East and in Europe which employ a superior article of coal; but we are told that the Mount Diablo coal can melt eight tons of ordinary ore in 24 hours, producing a regulus that will assay 46 per cent. in copper. With a little mixture of carbonates the per centage of the regulus may be easily raised to 50 or 55 per cent., using about six tons of coal each 24 hours. Now these are no mere theoretical figures, but those actually realized from practical experiments, on a large scale. At some future time we shall be able to give fuller particulars with regard to the practicability of smelting copper ore on this coast.

CALIFORNIA ACADEMY OF NATURAL SCIENCES.—The annual meeting of this society for the election of officers and transaction of business, took place on Monday evening last, when the following gentlemen were elected officers for the ensuing year: President, Col. L. Ransom; Vice-President, J. N. Eckel, M. D.; Corresponding Secretary, W. O. Ayres, M. D.; Recording Secretary, Prof. W. H. Brewer; Librarian, Prof. J. D. Whitney; Treasurer, Samuel Hubbard; Curators: G. F. Moore of Mineralogy, W. M. Gabb of Palæontology, A. Kellogg, M. D., of Botany, J. G. Cooper, M. D., of Zoology, J. B. Trask of Conchology, H. Behr, M. D., of Entomology.

THE PACIFIC MONTHLY, for January, came promptly to hand. It presents a very fine appearance, with a neat new head. The present number contains the promised chapter on "Brokers," written in the peculiar racy style of the new editress. The entire matter of the magazine is made up of an excellent class of articles, well suited to such a publication. Mrs. Strong continues her story, which is not yet brought to a conclusion. The "Pacific" is eminently a California institution, and well worthy of support.

MINING SHARE MARKET.

The Mining Share Market has been unusually active during the past six days, chiefly in speculative shares. Prices, as a general thing, have materially advanced.

Gould & Curry opened the week with holders at $5150, and closed at $5050 without finding bidders. A brief synopsis of the annual reports of the President and Secretary of this Company is elsewhere given. A dividend of $125 per foot, for the month of December, has been paid the past week.

Ophir shares have been comparatively quiet. But 252 shares have changed hands since our last issue, at from $1490 @ 1570. The stock market has been considerably agitated, during the past week, in relation to some transactions of a rather questionable character, relative to certain sales of the December dividends of this Company. Sales had been effected to a large extent, and no dividend has been forthcoming—it having been omitted for the last month.

Savage shares have been but little dealt in, and sales are quoted at from $2750 @ 2755. Holders, yesterday at $2750 without bidders.

Challar has a firm market at $600, with $620 asked.

Imperial shares are held firm at a material advance over our last quotations; $128 was offered yesterday, without finding sellers.

Overman has advanced from $450, last week, to $575, yesterday, holders firm.

Sierra Nevada opened the week at a slight advance and found buyers at $99 @ $100; yesterday it had receded to $90, with a declining market.

Daney shares are dull at slightly improved rates. We quote sales at $63 @ $65.

Burning Moscow shares have lost their attraction, having commanded but little attention during the past week. Sales were made on Saturday last at $131, advanced to $140 on Tuesday and gradually declined to $110 yesterday. Sales have fallen off, during the past week to 390 shares against 1500 the week previous.

Lady Bryan has now become the favorite. Sales were made on Saturday last at from $42 @ $49, b'yr 30 days; on Monday they reached $80; dropped, to $46 on Wednesday, recovered slightly on Thursday and Friday with light transactions on the last day. We quote closing sales at $57½, by'r 30 d. Transactions to the amount of 3723 shares have been made during the week—within 27 shares of three-fourths of the entire stock, and at rates fluctuating from $42 @ $80.

The Desert—north extension of the Lady Bryan, has been strongly affected, in sympathy. These shares which have lain dormant for the past six or eight months, without any value in the market, have suddenly come again into notice, and have been largely enquired for. Eleven hundred and sixty-three shares have changed hands at from $13 cash, to $29 buyer 30 days.

Uncle Sam is quiet, no transactions reported.

North American has been more enquired after, and large transactions have taken place, generally at rates materially improved. We quote closing sales at $92½ against $77, the highest quotation last week.

Baltimore American has been largely enquired for at a great advance. It opened the week at $30, and gradually advanced to $52½.

El Dorado is quoted at $40; Norton at $6; Burnside at $10; Adriatic at $10½ and Chas. Caney at $8½.

Belcher is not enquired after. This stock is well concentrated and held firmerly at about $1350. Twenty thousand dollars in Bullion was recently shipped from this mine.

Baltic is more in demand, having materially advanced from last quotations; opening at $130, it gradually advanced to $170 on Thursday, but on Friday declined to $115, with a weak market.

Wide West shares are quoted at $50, with a dull market; Antelope, $225—$250 asked; Real Del Monte, $310; Utah, $17; Silver Hill, $12½; Crockett, $25; Napoleon, copper, $40.

OUR ENLARGEMENT.

We omitted speaking, last week, of the improvements made in the first number of our new volume, preferring to let our newly-dressed double-sheet speak for itself; and we have now the happy satisfaction of knowing that our old acquaintances received the new sheet with appreciation, and new friends are coming forward and swelling up our subscription list and increasing our advertising patronage. Rare are the sweet crumbs of comfort which fall to the weary life of an editor, and none of which seem choicer than to hear an intelligent man say, "your paper is greatly improved, every way;" another of good taste remarks, "your new heading (that of the paper, of course,) is much finer than the old;" while a practical man of business adds, "your enterprise is bound to meet with a glowing success," while old and new correspondents are full of congratulations and assurances that they will lend their best efforts in behalf of our readers. Such unexpected encomiums have filled us with thanks towards our kind and interested friends, and inspired us with zeal to hasten on with our work, and strive to fulfil, at least in our humble manner, their predictions. There is always room for improvement in journalism, and by our unceasing personal labors, and th econstautly increasing corps of contributors which is now gathering to our assistance, we are confident of being able to show a mining and scientific journal second to none other. Our field of labor is unsurpassed, and the assistance due us from the greatest mining country in the world, will enable us to place the paper in the sphere it is designed to occupy.

MARTIN'S GRAIN SEPARATOR.—We would call the especial attention of our agricultural readers and grain operators, to the illustrated deserfption of Martin's Grain Separator, which will be found upon our 1st page. This is undoubtedly a very superior machine for the purpose for which it is designed. We have seen the signatures of a large number of citizens, from various portions of the State, interested in such matters, and having a practical knowledge thereof, who pronounce it good for all that is claimed for it by the inventor.

The Old and New Volume.

To perfect the desired improvements in our new series of the MINING AND SCIENTIFIC PRESS, it becomes necessary to commence a new volume with the year, and we are therefore obliged to close up Vol. VII with the present issue. By enlarging the paper, we have 832 pages per annum, instead of 416, as formerly, and for convenience in binding we reduce the term of our volume to six months, the customary period for such publications. No. 1 of the 1st volume of the PRESS was issued by G. H. Whislow & Co., May, 24th 1860. Although the individual length of the intervening volumes has been somewhat irregular, the average period for each figures not far from six months, and rating the seven volumes thus proves very nearly the actual age of the paper. Our receipts, recently given for subscriptions, have been dated by volumes and Nos. To prevent misapprehension on the part of subscribers, we will state that the change of volume alluded to, makes no difference in the *time* of the expiration of their subscriptions. In future there will be but 26 Nos. in each volume. There being but nine numbers issued in Vol. VII, (instead of 52, as contemplated,) those holding receipts to any No. beyond No. 9, of Vol. VII, will receive credit on Vols. VIII, IX, or X, to such date as the No. to which their receipt shows payment would have been issued if no change had been made. For instance, a subscriber holding a receipt given December 1st, 1863, running from No. 5 of Vol. VII to No. 5 of Vol. VIII, will be duly credited, by the new order of volumes, to No. 12 of Vol. IX, which will be published during the last week in November, 1864, at which time he will have received 4 Nos. printed in Vol. VII, (from No. 5 to 9,) the 26 Nos. contained in Vol. VIII, and 22 Nos. of Vol. IX—making in all 52 copies.

OUR NEW AGATE TYPE was purchased of Messrs. Faulkner & Son, agents of James Connor & Sons, New York. We have had the pleasure of donning a "new dress" of their type several times during the past twelve years. We desire no more liberal men in trade than Messrs. Faulkner & Son, and our readers will ask for no handsomer type to read than that presented in to-day's issue.

The Publication of Mining Notices in the MINING & SCIENTIFIC PRESS obtains for them a more general circulation, among parties directly interested, (in this city and throughout the mining districts of the coast, than can be secured through any other medium. State laws require their publication but once a week, and Secretaries and Trustees can make a material saving of costs to stockholders by ordering their advertisements inserted in the journal most properly entitled to receive their patronage—the weekly MINING AND SCIENTIFIC PRESS.

San Francisco Mechanics' Institute.—Organized March 29th, 1855. Regular meetings on the first Friday evening of each month. Building of the Association, south side of California Street between Montgomery and Kearny. Library and Reading Room, open from 8 A. M. to 10 P. M. President, JOSEPH HAITON; Secretary and Librarian, P. B. Dexter.

NEW INCORPORATIONS.

Companies have filed their certificates of incorporation in the County Court of San Francisco during the past week as follows:—

MAMMOTH COPPER GOLD AND SILVER MINING COMPANY.—Location, Hall Mining District, Sacramento County. Capital stock, $210,000, in shares of $100 each. Trustees: Henry Torrey, Ezra Richards and Thos. Hale.

RAVINE CITY GOLD AND SILVER MINING COMPANY.—Location, El Dorado county, Cal. Capital stock, $160,000, in shares of $200 each. Trustees: David O. Johns, Geo. H. Blanchard and Chas. E. Abbott.

ENGLISH BLUE OPHIR GOLD AND SILVER MINING COMPANY.—Location, Rock Spring District, San Bernardino county, Cal. Capital stock, $360,000, in shares of $300 each. Trustees: Joseph M. English, Dennis J. Mlver, Michael English and Daniel C. McGlynn.

VERONA LEDGE GOLD AND SILVER MINING COMPANY.—Location Reese River District, Lander county, N. T. Capital stock, $100,000, in shares of $100 each. Trustees: O. L. Church, D. O. Crocker and Wm. Pooler.

DIAMENA GOLD AND SILVER MINING COMPANY.—Location, Colorado District, Arizona Territory. Capital stock, $500,000, in shares of $5 each. Trustees: Wm. Hedley, Samuel Newell, Frank S. Alling, Henry A. Reed and James M. Patice.

ST. PAUL GOLD AND SILVER MINING COMPENY.—Location, Amador District, Lander county, N. T. Capital stock, $200,000, in shares of $100 each. Trustees: Robert Sherwood, L. A. Booth, Edward McLaughlin, John Garber and A. H. Murdock.

NORTH AMERICAN MINING COMPANY OF SAN FRANCISCO.—Location, Gold Hill District, Nevada Territory. Capital stock, $1,230,000, in shares of $300 each. Trustees: Wm. M. Lent, John R. Spring, John S. Heming, James Freeborn and Chales L. Low.

BOSTON GOLD AND SILVER MINING COMPANY.—Location, Reese River, Lauder county, Nevada Territory. Capital stock, $100,000, in shares of $100 each. Trustees: Stephen De Wolfe, Wm. F. Dyer and Wm. Sanford.

MORROW HILL SILVER MINING COMPANY.—Location, Slate Range District, San Bernardino county, Cal. Capital stock, $141,000, in shares of $80 each. Trustees: Richard McCaffrey, J. B. Cameron and A. J. Maguire.

COLUMBIO SILVER MINING COMPANY.—Location, Colosa District, State of Sinaloa, Mexico. Capital stock, $1,127,500, in shares of $500 each. Trustees: M. D. Sweeney, Wm. Hamill, H. G. Darnell, D. McCarthy, E. W. Linsley, Isaac Tabor and L. G. Elmore.

VICTOR EMANUEL TUNNEL AND MINING COMPANY.—Reese River District, Lander county, N. T. Capital stock, $100,000, in 1,000 shares of $100 each. Trustees: R. H. Loyd, C. F. Mebius, F. L. A. Proche and Edward Wolfe.

LA PRÖSIA GOLD AND SILVER MINING COMPANY.—Location, Sonora, Mexico. Capital stock, $240,000, in 2,400 shares of $100 each. Trustees: M. J. Newmark, M. Prag, L. V. H. Howell, C. Meyer and M. Greenberg.

LA FERNANDEZ GOLD AND SILVER MINING COMPANY.—Location, Tecoripa District, Sonora Mexico. Capital stock, $240,000, in 2,400 shares of $100 each. Trustees: Matthew B. Cox, Martin Prag, L. V. H. Howell, J. Birmingham and D. B. Hinckley.

GOLDEN GATE GOLD AND SILVER MINING COMPANY.—Location, Webster District, Amador county. Capital stock, $80,000, in 800 shares of $100 each. Trustees: T. N. Cazneau, George Morton and Thomas Boyce.

ANNA MOSELEY GOLD AND SILVER MINING COMPANY.—Location, Big Creek District, Lander county, N. T. Capital stock, $120,000, in 3,800 shares of $50. Trustees: Robert Kirt, George A. Hill, Thomas Donnolly, Hanford Earle and N. L. Ingols.

REED GOLD AND SILVER MINING COMPANY.—Reese River District, Lander county, N. T. Capital stock $120,000, in 1,200 shares of $100 each. Trustees: P. J. Wime, J. Carroll and James T. Reed.

MILLER GOLD AND SILVER MINING COMPANY.—Location, Reese River District, Lander county, N. T. Capital stock, $160,000, in 800 shares of $200 each. Trustees: The same as above.

BLACK PRINCE GOLD AND SILVER MINING COMPANY.—Location, Reese River District, Lander county, N. T. Capital stock, $100,000, in 1,000 shares of $100 each. Trustees: The same as above.

AUSTIN HILL TUNNEL MINING COMPANY.—Location, Reese River District, Lander county, N. T. Capital stock $220,000, in 2,200 shares of $100 each. Trustees: George W. Green, Oliver Merrill, M. Cannavan, Jacob Wray and John Gibbin.

PHYLENA GOLD AND SILVER MINING COMPANY.—Location, Humboldt county, N. T. Trustees: M. Tarpey, Jeremiah Dwyer, Wm. Hamill, James Brereton, J. P. Sweeney, F. D. Cleary, P. Brannan. Capital stock, $690,000.

SAN FRANCISCO CITY, GOLD AND SILVER MINING COMPANY.—Same location and trustees. Capital stock, $690,000.

YANKEE GOLD AND SILVER MINING COMPANY.—Same location and trustees. Capital stock, $480,000.

GRATTAN GOLD AND SILVER MINING COMPANY.—Same location and trustees. Capital stock, $690,000.

SANTA CLARA GOLD AND SILVER MINING COMPANY.—Location, Amador county, Cal. Trustees: Eli Rundell, H. D. Coon, Thomas W. Leggett, F. M. Rundell, G. P. Melville. Capital stock, $175,000.

ANDES MINING COMPANY.—Location, Gold Hill District, Storey county, N. T. Capital stock, $160,000 in 800 shares of $200. Trustees: Robert Apple, G. H. Maynard, Geo. O. McMullin, T. C. Sanborn and W. R. Cook.

CRYSTAL MINING COMPANY.—Location, Santa Catalina Island. Trustees: Wm. J. Woodley, S. C. Gardner, George Gibbons, Edward H. Baxter. Capital stock, $100,000.

ACACIA GOLD AND SILVER MINING COMPANY.—Location, Trustees, and Capital same as above.

TRUE AMERICAN MINING COMPANY.—Location, etc., same as above.

LIVE OAK GOLD AND SILVER MINING COMPANY.—Location, Lander county, N. T. Trustees: A. M. Huy, W. D. Robertson, D. T. Berry, W. A. Thornburgh, Werner Phillips. Capital stock, 160,000.

MERRIMAC GOLD AND SILVER MINING COMPANY. — Location and Trustees same as above. Capital stock, $80,000.

BADGER GOLD AND SILVER MINING COMPANY.—Location and Trustees same as above. Capital stock, $100,000.

BEN HOLT GOLD AND SILVER MINING COMPANY.—Location and Trustees same as above. Capital stock, $160,000.

Information Furnished.—Miners, Mechanics and others desiring information upon any subject relating to inventions and discoveries, or the principles of mining, mechanism, chemistry or natural sciences, by addressing us will receive answers to their enquiries, either through the columns of the PRESS—or by private letter, in accordance with the best judgment and information we can obtain.

Patent Office Department.

Treating Sulphates of Copper, Cobalt and Nickle to Obtain their Chlorides.—Heretofore, says the *Scientific American*, it has been customary in the separation of two or more sulphates, to use the difference of temperature or concentration of a solution and let it chrystalize: but the sulphates of copper, cobalt and nickle, the separation of which cannot be effected by chrystalization, nor by the usual mode of separation employed for these metals—have been precipitated by the addition of lime or other reagents, and then dissolved in muriatic or other acid, so as to obtain those metals as chlorides, in which form they are easily separated. The object of this invention is to obtain the chlorides of those metals in a more economical manner, and to this end it consists in the treatment of the sulphates by the use of chlorides, of sodium or other compounds of chlorine, such as chloride of potassium, of calcium, of magnesium, of strontium and the hypochlorites of lime, potassa or soda; but especially the chloride of sodium, because of its cheapness and the readiness with which it may be obtained. Alfred Monnier, of Philadelphia, Pa., is the inventor of this improvement.

Improved Printing Press.—Mr. Charles Potter, Jr., of Westerly, R. I., has recently added and patented important improvements to his machine press, which is now known as "Potter's Improved Printing Press." Throughout the numerous channels in which American inventive genius has displayed itself, there are few directions in which it has accomplished more beneficial results then in its efforts to aid in bringing to perfection the machine printing press. To such perfection has this class of machinery been carried that what formerly required the labor of a man and a boy for a day is now run off by a boy alone in an hour, and in much better style than it could possibly have been done by the presses in use thirty years ago—and the end is not yet.

An Improved Quartz Mill.—A. Hitchoock, of New York, has recently patented an improved Chili mill, for grinding quartz, etc., which certainly appears to possess many advantages over any mill of that description yet offered to the public. Practical miners, we believe, almost universally admit that the Chili mill will give a greater yield of gold to the ton of rock, than any other process of working. The only objection is that it is too slow in its results. The heaviest wheels used in the ordinary Chili mills weigh about three tons, but even that weight is not sufficient to crush the particles of quartz sufficiently fine until after the wheel has been made to pass over them several times. To accomplish the desired result at one crushing and thus hasten the process would require wheels of too unwieldy a weight to make them at all feasable, with the ordinary manner of procuring them. Mr. Hitchcock has endeavored to remedy this defect by placing a circular plate upon the top of these wheels and attaching the driving power directly to this plate, which in revolving carries the wheels with it, the power being transferred through this revolving plate to the periphery of the wheels. Any desirable weight can be given to the wheels by placing weights upon the upper surface of this revolving plate. This machine is illustrated in the *Scientific American* of November 14, 1863.

The Mining and Scientific Press Patent Agency.

OFFICE, 57, GOVERNMENT HOUSE, SAN FRANCISCO.

Information About Obtaining Patents.

The Patent Law Amendment Act, of March 4th 1861, and March 3d 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent? A positive answer to this question is only to be had by presenting a formal application for patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the Mining and Scientific Press. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Preliminary Examinations.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search, made at the U. S. Patent Office, Washington, through the medium of our associate in that city, to ascertain whether among all the patents and models there stored, any invention can be found which is similar in character to that of the applicant. On the completion of this special search we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollars. This search, though it involves the expense just named, will usually prove satisfactory. If the same device has been before patented, the time and expense of constructing models, preparing documents, etc., will in most cases be saved; if the invention has been in part patented, the applicant will be enable to modify his claims and expectations accordingly. Many other obvious advantages attending the Preliminary Examination; although the strictest search does not always enable the applicant to know positively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publication; or some other person has been previously rejected on an analogous device; or some other invention for a similar purpose, but partinily resembles the applicant's in its construction; or the Government makes an unjust or uncommon decision. Against none of these contingencies does the Preliminary Examination provide; it will, however, generally inform the applicant whether an improvement similar to his and used for the same purpose has ever been patented or not in this country.

Persons desiring the Preliminary examination are requested to remit the fee ($10), and furnish us with a sketch and description of the invention.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian, Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of governments that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues.—If the application is rejected we cause a thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have excess to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client. For this service we make no charge. If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The laws requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: Dewey & Co., Mining and Scientific Press, rooms 56 and 57, Government House, corner of Sansome and Washington Streets, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail.—The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due, and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued, the applicant will be notified, to remit the last installment of the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Return of Models.

Under the new law, if the applicants case has been rejected he is entitled to withdraw his model from the Patent Office.

This law applies to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expense

Application for Patents, Designs, Trade-Marks, Labells, etc.

Under the new law patents may be taken out for any new form of any article, also for tools, patterns, castings, machine-frames, stove-plates, borders, fringes, all new designs for printing, weaving or stamping upon silks, calicoes, carpets, oil-cloth, prints, paper-hangings, and other articles. Trade-marks, labels, envelopes, boxes and bottles for goods, may also be patented; likewise all works of art, including prints, paintings, busts, statues, bas-relief, or compositions in alto, or basso relievo, new dies, impressions, ornaments to be placed upon any article of manufacture, architectural work, etc.

Our facilities for the prompt preparation and securing of patents are of the most extensive character and our charges are very moderate.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the tariff of fees established by law:

On every application for a design, for 3 years and six months	$10 00
On every application for a design, for seven years	15 00
On every application for a design, for fourteen years	30 00
On every caveat	10 00
On every application for a patent	15 00
On issuing each original patent	20 00
On filing a disclaimer	10 00
On every application for a re-issue	30 00
On every additional patent granted on a re-issue	30 00
On every application for an extension	50 00
On the grant of every extension	50 00
On appeal to the Commissioner from Examiners-in-chief	20 00
On every appeal to the Judges of Circuit Court, D. C.	25 00

Infringements.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunction from the Court, to an arrest of or prohibition from the employment of his machinery, shop, works, factory and men in production of the article.

In addition to injunction the infringer is liable to be mulched in treble the amount of damages awarded by the jury. The maker, the workman, the seller, and the purchaser, if a user, are all liable either collectively or individually.

Having access to all the patents, models, public records, drawings and other documents pertaining to the Patent Office, we are prepared to make examinations and give opinions upon all infringement questions, advise as to the scope and ground covered by patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Appeals.

In rejected and other cases, the new law provides for an appea from the Examiner-in-chief to the Commissioner in person, on the payment of a fee of twenty dollars. A further appeal may be taken from the decision of the Commissioner to the U. S. Court, of the District of Columbia. These appeals are heard by any of the Judges before whom the applicant elects to bring the case. No Jury. All the papers, models, etc., are sent by the Commissioner to the Judge, who then reviews the case, and either sustains or reverses the Commissioner's decision.

The party taking the appeal pays an additional fee of twenty-five dollars. The Judge appoints a day of hearing. The applicant can appear in person or by counsel to state his case and file a written argument. Five days are allowed the opponent to put in an answer, and a similar period to the appelant for a closing reply.

Many important cases are brought before the Judges on appeal, and the decisions of the Commissioner are not unfrequently reversed.

We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, Government House, corner Sansome and Washington streets, San Francisco.

Patent Claims.—We will furnish, on application, the claim of any invention that has been patented within the last fourteen years. The name of the patentee, date of patent, when known, and two dollars for copying, should be sent.

Back Numbers.—We have a limited number of past volumes of the Press on hand, which will be sold, neatly bound, at reasonable rates. A portion of the back numbers of the paper can be had by the single copy.

on the opposite side of the river on another vein, is the

INDIAN BAR.

It contains 1,500 feet divided into ten shares. For magnificent croppings, openings and thickness of vein on the surface, this claim beats everything I have yet seen. The rock is also of good character and pure—in fact a profusion of mundic, sulphuto of iron copper pyrites and yellow sulphurets. At the end of the tunnel, where it has assumed its regularity of course, it is perfectly defined with both walls, and a vein some four feet thick. Work suspended till Spring. The next, a little way east of south is the

BELL RING.

It contains 3000 feet divided into 3000 shares. It is on another river, showing itself here almost as prominently and well as the above one. The tunnel, for some reason has been run parallel with the lead, but at the end where they turned to cut the vein the rock looks healthy and promising. At this particular spot I do not think a tunnel is good policy. Work suspended for the present. Some half mile east, near the river, is the

WASHINGTON.

It contains 2,400 feet in single foot shares. Tunnel some 200 feet, showing at the end a small vein ten or twelve inches thick with a good mineral slate.

Many of these claims, are sadly neglected for want of capital. Some of them are so promising it seems almost *sinful* to leave them in such an undeveloped condition. When a few more Santiagos burst like bomb-shells amongst us, men of wealth will become sensible, and find nearer home better and safer investments, than all the distant mines can present. I observe here that the miners allow 1000 feet width to their claims, instead of three hundred as generally allowed elsewhere. If this arrangement is intended only to secure parties against losing ground through error in running their lines, and not to embrace a right to *another* vein it may chance to overlap, and often will, it will work well, otherwise it must ultimately cause serious difficulties. This point should be understood at once by all parties.

It was here on the open level in front of the Crimea, that the great international fight between the Chinese took place a few years ago, Some 1500 men marched in battle array against each other on that terrible day. How to keep out of harms' way. I am told, was the grand principle of strategy. When the balls began to fly about, the dense crowd of "Mellican Man" began to fly about also, making according to the record I saw, the *quickest* time in running ever known. Finally victory sat on the banner of Canton, having killed the Hong Kong chief, who singularly enough was the only man hurt, though dressed in coat-of-mail from head to foot. In imaginary security, this brave sought distinction, but found death; and in his fate we read the history of many men. As the fight arose out of a mining dispute, I thought it might not be considered inappropriate to record it. The official account prepared by the victors, and now at the Crimea House, is amusing, short and graphic, it runs thus. "Hong-Kong head man, him killed, welly good; one Mellican horsey killed by chance, no good; Cantoa man pay three hundred dollar him, no good John; Mellican man lie, horsey no worth so muchee; Mellican man, beat Hong-Kong man in runaing likeo debil whea shootee begin; Canton man welly good. Signed Ah Koag, Canton Chief."

I once more tender my acknowledgments to Mrs. Brown's family, and also to Dr. Clarke for civilities since offered. L. H.

IMPORTANT ADMISSION.—The London *Times* says that the American fleet of iron-clads is the strongest in the world, and more numerous than the squadrons of all other countries put together.

PRIVATE New York telegrams mention an important rise in the value of iron bolts there and in England, quoting bar iron in New York at $129 per ton.

[Written for the Mining and Scientific Press.]

Reese River Correspondence.

AMADOR CITY, Dec. 30, 1863.

EDITORS PRESS.—You will observe I date my letter from a new city; a part of which was called Coral city, but which is "*de facto*," the town. It seems there is a dispute between the locators, and by tacit, or public consent, the town is divided. Thus we have two cities side by side, and the difference is without a distinction, only on paper, for Amador has most of the population. Taking them together, they are said to be larger than Clifton, and growing rapidly, considering the season. The weather has been mild until a day or two past; but winter has asserted its sway in spite of canvas houses and sage brush, to the no small discomfiture of many of the less fortunate, badly housed individuals.

It is but the bright, silvery visions of the future that can lighten the burthen of a miner's life, among the cold bleak mountains of Nevada, or keep the blood above the freezing point under the "canvas" and "bacon." What will not men endure for promises of rich reward?

This is now a district of itself, cut off from Reese river on the 15th inst. At the same time, a new recorder was elected, and seven hundred votes were polled. This shows up well considering that in the spring there were hardly ten buildings in this section of the country. The Amador still holds its own, while many other ledges are daily discovered quite as promising. In the Coral ravine, running up the mountain Easterly, there have been many lucky claims made during the past two weeks. At the mouth of this ravine, is the "Coral mine," a large ledge of the Amador class, which is being worked with vigor. The next beyond is the "Belmont," situated on the the same side of the ravine, which is considered first class; though I observed considerable slate intermixed with quartz. It is well defined, and from appearances, I was very favorably impressed. On the same side, farther up, is the "Rough and Ready," opposite of which, across the ravine, is the "Oakland;" both look well. The "Ivanhoe," is back of the Belmont, quite a distance up the ascent. I did not visit this mine, but was informed that it showed up good. Almost to the extreme end of the ravine, is the "Old Hickory," of which I had heard a good deal said, and which, too, I found to be exceedingly promising. There are many other claims upon which I saw men working, but I could not note them all at one visit, so I must defer it until some future day.

The Amador company is running a tunnel into the hill south of their mine, in hopes of finding their own ledge, as well as other blind ledges that may fall in their way, although full five hundred feet, including a small ravine, intervenes. The "Wild Wood Tunnel Company" has opened work but fifty feet South of the Amador company, and it is a race between the two for the blind ledges; consequently, both work three shifts of hands, day and night. At the present writing, the "Wild Wood" is about 20 feet in the advance, being already 60 feet in the tunnel.

The "General Banks" is still a favorite, but work is progressing slowly. They have filed their papers for incorporation. Beyond this, about one half a mile, is the "Batavia Ledge," on the same incline with the Amador, which looks as though it might be the true North extension. As but little work has been done on it since its recent discovery, its worth can hardly be defined. There are so many assumed extensions of the "Amador," that one would be bewildered in hunting the original by following any of these leads: unless, like the Batavia ledge, they are located on the same bench and of uniform distance from the plain below. The ledges all seem to run parallel, a small distance apart, and it is no stretch of the imagination to fancy they might and do bend a little up or down the mountain, so as to accommodate each particular owner's interest, and emerge into, or form a part of the Amador ledge.

The mills at Austin are again at work, and, as I learn, are giving better satisfaction. Brady's mill is working second class rock from the Yankee Blade district, Whitlach company, which is yielding $150 per ton. At Brooks' mill some pulp which had been worked there, assayed, to my certain knowledge, $780 per ton. I do not know from what mine this came, but since the complete renovation of the mills, there seems to be greater results, which has established to the mind of the skeptic, a truth which he had heretofore grappled with gloved hands, and which he now accepts as self-evident—that the mines of Reese river will be a paying institution.

About political matters I may as well add that I have yet to see the first individual who is in favor of the Constitution, to be voted upon on the 19th of January. The great objection is the mining clause embraced therein, taxing equally the unproductive with the productive mines.

After January 1st we shall have a post office in Austin for the first time. This has long been needed, for it was an intolerable nuisance to climb the hill between this place and Clifton on our return from the post office there.

Union district is attracting considerable attention among the miners just now; and were it not for the Amador district, there would be a general stampede for these more Southern mines. As it is, a good many are going and coming, who bring very encouraging reports of their extent and richness. From specimens brought in from that district, I believe their report will be found without exaggeration.

'Tis said that "Yankee Blade" is turning out some splendid rock which is being worked with satisfactory results. I hope it is so, for the benefit and reputation of the mines, as well as that district. They have stuck to it, through good and evil reports, and now are likely to be rewarded for their perseverance. We are all anxiously waiting to see your enlarged edition. Artemus Ward is expected to lecture here the night of the first, on the "*Babes in the Woods*." Hope he will tell us where to find them, as they are a mighty scarce article in this section. Trees are also scarce. B.

A PROPHECY IN JEST.—The following paragraph from a burlesque article in the New Monthly Magazine for 1821, Vol. 2, entitled, "Specimens from a prospective newspaper, printed A. D. 4796," is somewhat curious at this time:

"The Army of the Northern States (of America) will take the field against that of the Southern provinces, early next spring. The principal Northern forces will consist of 1,490,000 picked troops. Gen. Congreve's new mechanical cannon was tried last week at the siege of Georgia. It discharged in one hour 1,120 balls, each weighing five hundred weight. The distance of the objects fired at was eleven miles, and so perfect was the engine that the whole of these balls were lodged in a space of twenty feet square." A subsequent article in this specimen states that, "by means of a new invention, Dr. Clark crossed the Atlantic in seven days."

How little did the writer of the above paragraph anticipate that in forty years these, to him, wild fancies, would be so closely realized.

ENTHUSIASTIC.—Some enthusiastic genius writes as follows to the Denver *News*:—

"Close to the former Capital of our Territory you come near that oft described "Garden of the Gods," where birds of Paradise in past time were supposed to chirp on grease-wood boughs, and where future Pike's Peak Paulines may be expected to live and luxuriate while listening to loving set-speeches from the honeyed lips of Coloradan Claude Melnottes. This romantic, fairy-like, rock-fenced garden appears at present, however, without either gods or garden nymphs, and its herbaceous labyrinths and moss-covered walks as yet are not fringed with perfume-breathing bowrets. True lovers' knots are not yet observable within its velvet-carpeted summer-houses, nor chanted Te Deums audible before its altars and classic caves."

ANNUAL ELECTION.—The annual election of officers for the Mercantile Library Association takes place on Monday, Jan. 18th. Polls open from 9 A. M., to 5 P. M.

Stock Reports.

SAN FRANCISCO STOCK BOARDS.

Sales by the San Francisco Stock and Exchange Board, and the San Francisco Board of Brokers.

[Revised for the Mining and Scientific Press.]

SATURDAY, JANUARY 2, 1864.

S. F. S. & E. BOARD.

10 shares Wide West at $50 per share—b 30.
10 shares Crockett at $25 per share.
5 shares Lady Bryan at $42 per share.
5 shares Lady Bryan at $45 per share.
5 shares Lady Bryan at $47 per share.
150 shares Lady Bryan at $50 per share—b 30.
65 shares Lady Bryan at $46 per share.
60 shares Lady Bryan at $44 per share.
130 shares Lady Bryan at $47½ per share—b 30.
10 shares Lady Bryan at $44 per share.
30 shares Lady Bryan at $44½ per share.
20 shares Lady Bryan at $47½ per share—b 30.
10 shares Lady Bryan at $45 per share.
30 shares Lady Bryan at $44 per share—s 30.
10 shares Lady Bryan at $47½ per share—b 30.
5 shares Lady Bryan at $45 per share.
10 shares Nevada, Justice Ground, at $75 per share.
4 shares Melones at $68 per share.
10 shares Buckeye at $13 per share.
4 shares Sacramento Valley Rail Road at $24 per share.
10 shares Michigan, G. H., at $14 per share.
10 shares Golden Swan at $27 per share.
100 shares Golden Swan at $26 per share.
10 shares Golden Swan at $26 per share—seller 3 days.
10 shares Baltic at $120 per share—b 30.
20 shares Baltic at $125 per share.
48 shares Ophir at $1490 per foot.
12 shares Ophir at $1500 per foot—r w.
5 shares Chollar at $600 per foot.
2 shares Chollar at $600 per foot—s 30.
2 shares Chollar at $600 per foot—r w.
10 shares Burning Moscow at $132 per foot.
20 shares Burning Moscow at $131 per foot.
10 shares Burning Moscow at $132½ per foot.
40 shares Dancy at $67½ per foot.
10 feet Ophir dividends at $25 per foot, for December.
30 feet Ophir dividends at $24 per foot for December.
50 feet Gould & Curry dividends at $145 per foot, for December.
10 shares North American at $65 per share—b 30.
10 shares Lady Bryan at $48 per share—b 30.
20 shares Lady Bryan at $46 per share.
100 shares Lady Bryan at $49 per share—b 30.
5 shares Lady Bryan at $46 per share.
52 shares Lady Bryan at $49 per share—b 30.
5 shares Whitlach Union, No. 2, at $200 per share—b 30.
40 shares Chollar at $600 per share.
40 shares Burning Moscow at $132 per foot.
24 shares Ophir at $1500 per foot.
24 shares Ophir at $1500 per foot.
5 feet Ophir dividends at $24 per foot, for December.
65 feet Ophir dividends at $20 per foot, for December.

MONDAY, JANUARY 4, 1864.

S. F. S. & E. BOARD.

25 shares Wide West at $50 per share.
20 shares North American at $65 per share.
10 shares North American at $69 per share.
50 shares North American at $70 per share.
10 shares North American at $71 per share.
15 shares North American at $72 per share—steamer day.
50 shares North American at $71 per share.
80 shares Desert at $13 per share.
40 shares Desert at $14 per share—b 30.
5 shares Antelope at $200 per share.
5 shares Antelope at $200 per share—r w.
25 shares Sierra Nevada at $100 per share.
5 shares Sierra Nevada at $99 per share.
5 shares Baltic at $130 per share.
10 shares Baltic at $145 per share.
65 shares Baltic at $150 per share.
10 shares Michigan at $41 per share.
15 shares Golden Swan at $30 per share.
16 shares Spanish No. 2 at $43 per share.
10 shares Nevada J. G. at $85 per share.
5 shares Lady Bryan at $70 per share.
10 shares Lady Bryan at $70 per shares—s 30.
235 shares Lady Bryan at $80 per share.
10 shares Lady Bryan at $78 per share.
10 shares Lady Bryan at $70 per share.
40 shares Lady Bryan at $69 per share.
20 shares Lady Bryan at $72½ per share—b 30.
50 shares Lady Bryan at $69 per share.
20 shares Lady Bryan at $70 per share.
10 shares Lady Bryan at $67 per share—s 30.
10 shares Lady Bryan at $73 per share—b 30.
1 share Yellow Jacket at $935 per foot.
40 shares Dancy at $66 per foot—s 30.
2 shares Hale & Norcross at $950 per foot—s 30.
20 feet Ophir dividends at $20 per foot, for December.
10 feet Ophir dividends at $19½ per foot, for December.
50 feet Ophir dividends at $20 per foot, for December.

AFTERNOON SESSION.

2 shares Utah at $18 per share.
25 shares Lady Bryan at $67½ per share.
10 shares Lady Bryan at $75 per share—b 30.
40 shares Lady Bryan at $70 per share.
30 shares Lady Bryan at $72½ per share.
30 shares Lady Bryan at $69 per share—s 30.
70 shares Lady Bryan at $72½ per share.
20 shares Lady Bryan at $75 per share.
30 shares Lady Bryan at $71 per share—s 30.
20 shares Lady Bryan at $75 per share—b 30.
100 shares Lady Bryan at $73 per share.
20 shares Lady Bryan at $71 per share—s 30.
20 shares Lady Bryan at $75 per share—b 30.
100 shares Lady Bryan at $73 per share.
20 shares Lady Bryan at $71 per share—s 30.
20 shares Lady Bryan at $75 per share—b 30.
10 shares Lady Bryan at $71 per share—s 30.
50 shares Lady Bryan at $73 per share—b 40.
10 shares Lady Bryan at $75 per share—b 30.
7½ shares Jockeye at $85 per share.
20 shares Adriatic at $7½ per share.
55 shares Adriatic at $8 per share—b 30.
85 shares Adriatic at $8 per share.
17 shares North American at $73 per share.
10 shares Baltimore American at $30 per share.
24 shares Bullion, G. H., at $69 share—b 30.
10 shares Michigan at $43 per share.
18 shares Michigan at $46 per share—b 30.
50 shares Burning Moscow at $135 per foot.
5 feet Belcher, G H, at $1250 per foot.

S. F. B. OF BROKERS.

5 shares Harmon, El Dorado county, at $24½ per share.
20 shares Harmon, El Dorado county, at $30 per share—b 30.
10 shares Harmon, El Dorado county, at $30 per share—b 30.
4 shares Harmon, El Dorado county, at $30 per share—b 30.
10 shares Harmon, El Dorado county, at $30 per share—b 30.
10 shares Harmon, El Dorado county, at $30 per share—b 30.
10 shares Harmon, El Dorado county, at $30 per share—b 30.
10 shares Lady Bryan at $75 per share.
10 shares Lady Bryan at $75 per share.
10 shares Lady Bryan at $67 per share—s 30.
10 shares Utah at $20 per share—b 30.
40 shares Codicil, L. C., at $4 per share.
10 shares Desert at $12½ per share.
10 shares Rising Sun, H, at $17½ per share.

TUESDAY, JANUARY 5.

S. F. S. & E. BOARD.

50 shares Lady Bryan at $73 per share.
20 shares Lady Bryan at $74 per share.
10 shares Lady Bryan at $73 per share.
20 shares Lady Bryan at $78 per share—b 30.
40 shares Lady Bryan at $75 per share.
30 shares Lady Bryan at $71 per share.
10 shares Lady Bryan at $72 per share.
10 shares Lady Bryan at $72½ per share.
10 shares Lady Bryan at $72 per share.
10 shares Lady Bryan at $71 per share.
50 shares Lady Bryan at $70 per share.
10 shares Lady Bryan at $71 per share.
10 shares Lady Bryan at $70 per share.
70 shares Lady Bryan at $69 per share.
20 shares Buckeye at $15 per share—b 30.
50 shares Buckeye at $14 per share.
20 shares Golden Swan at $32 per share.
10 shares Caledonia Tunnel at $31 per share—b 30.
12 shares Caledonia Tunnel at $28 per share.
5 shares Bullion at $65 per share—b 30.
10 shares Sierra Nevada at $100 per share.
16 shares Union, R. D., at $4 per share.
5 shares Antelope at $225 per share.
10 shares North Potosi at $25 per share.
30 shares Adriatic at $9 per share.
25 shares Adriatic at $10 per share—b 30.
35 shares Adriatic at $9 per share.
50 shares Adriatic at $10 per share—b 30.
20 shares Adriatic at $9 per share.
85 shares Adriatic at $9½ per share—b 30.
70 shares Adriatic at $10 per share—b 30.
15 shares Crockett at $25 per share.
50 shares Desert at $14 per share—b 30.
25 shares Desert at $13 per share.
40 shares Desert at $14 per share.
158 shares Desert at $15 per share.
135 shares Desert at $15 per share.
5 shares North American at $75 per share.
20 shares North American at $80 per share—b 30.
10 shares North American at $77½ per share.
45 shares North American at $80 per share.
10 shares North American at $78 per share.
10 shares Burning Moscow at $135 per foot.
10 shares Burning Moscow at $137½ per foot.

AFTERNOON SESSION.

26 shares Adriatic at $9¼ per share.
10 shares Buckeye at $16 per share—b 30.
30 shares Buckeye at $15 per share.
20 shares Buckeye at $16 per share—b 30.
10 shares Buckeye at $16 per share.
50 shares Lady Bryan $68 per share.
50 shares Lady Bryan at $66 per share.
20 shares Lady Bryan at $66 per share.
60 shares Lady Bryan at $65 per share.
5 shares Lady Bryan at $63 per share.
5 shares Lady Bryan at $64 per share.
10 shares Lady Bryan at $65 per share.
10 shares Lady Bryan at $63 per share.
10 shares Lady Bryan at $67½ per share—b 30.
15 shares Lady Bryan at $63 per share.
20 shares Lady Bryan at $60 per share.
10 shares Lady Bryan at $61 per share.
70 shares Golden Swan at $35 per share.
20 shares Baltimore American at $32 per share.
10 shares Pride of the West at $70 per share.
30 shares Pride of the West at $70 per share.
10 shares Desert at $15 per share.
10 shares Desert at $14 per share—b 30.
5 shares Spanish No 2 at $42½ per share.
20 shares Spanish No. 2 at $40 per share.
10 shares North American at $75 per share.
20 shares North American at $74 per share.
5 shares Baltic at $160 per share.
20 shares Baltic at $170 per share—b 30.
10 shares Wide West at $50 per share.
46 shares Wide West at $49 per share.
5 shares Yellow Jacket at $950 per share.
10 shares Burning Moscow at $130 per foot—s 60.

S. F. B. OF BROKERS.

10 shares Burning Moscow at $140 per foot—b 30.
10 shares Rising Sun, H. at $17½ per share.
10 shares Crockets Consolidated at $25 per share—b 30.
10 shares Desert at $15 per share.
20 shares Flora, H R, at $5 per share.

WEDNESDAY, JANUARY 6.

S. F. S. AND E. BOARD.

$5,000 Legal Tender Notes at 67½ per cent—s 30.
20 shares Adriatic at $9¼ per share.
130 shares Lady Bryan at $60 per share.
20 shares Lady Bryan at $55 per share.
60 shares Lady Bryan at $52½ per share.
20 shares Lady Bryan at $51 per share.
60 shares Lady Bryan at 50 per share.
100 shares Lady Bryan at 48 per share.
20 shares Lady Bryan at 47 per share.
35 shares Lady Bryan at 46 per share.
105 shares Lady Bryan at 45 per share.
10 shares Lady Bryan at 46 per share.
5 shares Lady Bryan at 48 per share.
10 shares Blue Ledge, El Dorado county, at $7¼ per share.
40 shares Desert at $14 per share—b 30.
25 shares Desert at $13 per share.
10 shares Echo at $18 per share.
30 shares Buckeye at $15½ per share.
20 shares Buckeye at $16 per share.
20 shares Buckeye at $16½ per share.
125 shares North America at $75 per share.
10 shares North America at $77½ per share—h 30.
20 shares North American at $77 per share.
7 shares Crockett at $25 per share.
10 shares Baltimore American at $35 per share—b 30.
10 shares Baltimore American at $35 per share.
10 shares Bullion, G. H., at $68 per share.
10 shares Standard B. R. at $22½ per share.
5 shares Baltic at $160 per share.
5 shares Nevada, Justice Ground, at $110 per share.
8 shares Chollar at $645 per foot.
20 shares Chollar at $640 per foot—s 30.
112 shares Dancy at $65 per foot.
20 shares Burning Moscow at $130 per foot.
50 shares Burning Moscow at $132½ per foot—b 30.
10 shares Burning Moscow at $130 per foot—b 20.

AFTERNOON SESSION.

10 shares Lady Bryan at $59 per share.
15 shares Lady Bryan at $60 per share.
10 shares Lady Bryan at $62½ per share—b 30.
20 shares Lady Bryan at $60 per share—b 30
20 shares Lady Bryan at $58 per share.
38 shares North American at $80 per share.
10 shares North American at $84 per share—b 30.
14 shares North American at $81 per share.
25 shares Desert at $14 per share.
10 shares Wide West at $50 per share—buyer 30 days.
17 shares Pride of the West at $67½ per share—r w.
5 shares Pride of the West at $60 per share—b 30.
5 shares Caledonia Tunnel at $27 per share.
10 shares Josephine Cosumnes at $7 per share.
5 shares Golden Swan at $37 per share.
10 shares Golden Swan at $36 per share.
10 shares Golden Swan at $35 per share.
20 shares Golden Swan at $37 per share.
50 shares Buckeye at $18 per share.
25 shares Buckeye at $19 per share—b 30.
50 shares Buckeye at $18 per share.
5 shares Bajazet at $35 per share.
10 shares Union, G. H., at $8 per share.
5 shares Baltic at $170 per share.
20 shares Baltic at $171 per share.
5 shares Baltic at $170 per share.
5 shares Florida B. R. at $53 per share.
30 shares Adriatic at $9½ per share.
1 share Savage at $ 2750 per foot.
1 share Yellow Jacket at $945 per share.
20 shares Burning Moscow at $130 per foot—b 30.
10 shares Burning Moscow at $130 per foot—b 20.
20 shares Burning Moscow at $125 per foot.
8 shares Chollar at $630 per foot.

S. F. B. OF BROKERS.

20 shares Burning Moscow at $130 per foot.
10 shares Burning Moscow at $130 per foot.
15 shares Codicil at $5.
10 shares Codicil at $7—b 30.
5 shares Buckeye at $14.
2 shares Buckeye at $15.
10 shares Buckeye at $15—s 30.
10 shares Buckeye at $15—s 30.
10 shares Buckeye at $15—s 30.
25 shares Bankers at $19 per share.
25 shares Bankers at $21 per share—b 30.
20 shares Gibson, S. V., at $8½ per share.
10 shares Rising Sun, H., at $20.
10 shares Rising Sun, H., at $20.
50 shares Baron Humboldt, H., at $6 per share.
50 shares Baron Humboldt, H., at $6 per share.
5 shares Harmon at $20.
1 share South San Francisco Homestead at $178 premium.

THURSDAY, JANUARY 7.

S. F. S. AND E. BOARD.

10 shares Josephine at $21½ per share.
10 shares Norton at 6.00 per share.
10 shares Wide West at 40.00 per share.
10 shares Golden Swan at 37.50 per share.
60 shares Golden Swan at 39.00 per share.
14 shares Union, G. H., at 10.00 per share.
10 shares Baltimore American at 36.00 per share.
5 shares Baltimore American at 37.50 per share.
30 shares Baltimore American at 40.00 per share.
14 shares Baltimore American at 45.00 per share—b 30.
65 shares Lady Bryan at 55.00 per share.
30 shares Lady Bryan at 56.00 per share.
25 shares Lady Bryan at 60.00 per share—b 30.
10 shares Lady Bryan at 57.00 per share.
35 shares Lady Bryan at 57.50 per share.
60 shares Lady Bryan at 60.00 per share—b 30.
20 shares Lady Bryan at 55.00 per share—s 30.
10 shares Lady Bryan at 57.50 per share.
75 shares Lady Bryan at 57.00 per share.
50 shares Lady Bryan at 61.00 per share—b 30.
10 shares Lady Bryan at 57.00 per share.
25 shares Lady Bryan at 60.00 per share—b 30.
30 shares Lady Bryan at 57.00 per share—b 30.
60 shares Lady Bryan at 55.00 per share—b 30.
20 shares Lady Bryan at 60.00 per share—b 30.
30 shares Lady Bryan at 59.50 per share—b 20.
20 shares Lady Bryan at 57.50 per share.
5 shares North American at 80.00 per share.
28 shares North American at 82.50 per share.
23 shares North American at 83.00 per share.
85 shares Buckeye at 21.00 per share.
110 shares Buckeye at 20.00 per share.
50 shares Buckeye at 19.00 per share.
10 shares Desert at 13.25 per share.
90 shares Desert at 14.00 per share.
75 shares Desert at 14.50 per share.
145 shares Desert at 15.00 per share.
150 shares Desert at 15.75 per share.
10 shares Burning Moscow at 120.00 per foot—s 30.
30 shares Burning Moscow at 122.00 per foot.
5 shares Overman at 550.00 per share.
5 shares Overman at 565.00 per share.
2 shares Overman at 570.00 per share.
24 shares Ophir at 1530.00 per foot.
60 shares Ophir at 1525.00 per foot.
8 shares Gould & Curry at 4950.00 per foot.
4 shares Gould & Curry at 4755.00 per foot.
4 shares Savage at 2750.00 per foot.
1 share Savage at 2755.00 per foot.
40 shares Dancy at 65.00 per foot.

AFTERNOON SESSION.

10 shares Baltic at 170.00 per share.
10 shares Bullion, G. H., at 80.00 per share.
10 shares Bullion, G. H., at 82.50 per share.
10 shares Gold Canon at 14.00 per share.
20 shares North American at 87.00 per share.
20 shares North American at 88.00 per share.
50 shares North American at 90.00 per share.
5 shares Baltimore American at 45.00 per share.
20 shares Baltimore American at 50.00 per share—b 30.
10 shares Baltimore American at 50.50 per share.
20 shares Baltimore American at 50.00 per share.
10 shares Desert at 15.00 per share.
20 shares Desert at 16.00 per share.
20 shares Desert at 17.00 per share.
10 shares Desert at 17.50 per share.
10 shares Echo at 22.00 per share.
5 shares Echo at 22.50 per share.
5 shares Echo at 23.00 per share.
10 shares Echo at 24.00 per share.
10 shares Lady Bryan at 57.00 per share.
25 shares Lady Bryan at 56.50 per share.
10 shares Adriatic at 10.00 per share.
50 shares Adriatic at 12.00 per share—b 30.
10 shares Standard R. R. at 25.00 per share.
10 shares Crown Point Bayine at 12.00 per share.
10 shares Lucerne at 17.000 per share.
10 shares North Potosi at 40.00 per share.
10 shares Golden Swan at 39.00 per share.
5 shares Golden Swan at 40.00 per share.
40 shares Chollar at 600.00 per foot.
36 shares Ophir at 1540.00 per foot.
1 share Savage at 2750.00 per foot—b 12.

S. F. B. OF BROKERS.

20 shares Burning Moscow at 125.000 per foot.
10 shares Baltic, G. H., at 80.00—s 2.
5 shares Lady Bryan at 58.00—b 30.
5 shares Lady Bryan at 55.00.
10 shares Baltimore American at 40.00.
10 shares Baltimore American at 40.50—b 30.
5 shares Wide West at 50.00.
25 shares Bankers at 22.00.
25 shares Lady Adams at 1.62½.
30 shares Havil, Mexico, at 8.00.
10 shares Desert at 14.00.
20 shares Webb & Connor, S V., at 5.90.
10 shares Webb & Connor, S. V., at 5.00.
10 shares Polar Star, R. R., at 5.00.

FRIDAY, JANUARY 8.

S. F. S. AND E. BOARD.

20 shares Josephine, 2 50 per share.
10 shares Napoleon (copper,) 40 per share.
20 shares Napoleon (copper,) 42 50 per share—b 30.
10 shares De Soto, 25 per share.
5 shares Sierra Nevada, 90 per share.
20 shares Norton, 6 per share.
10 shares Pride of the West, 75 per share.
5 shares Pride of the West 80 per share—b 30.
2½ shares Pride of the West, 77 50 per share.
5 shares Cedar Hill Tunnel, 2 per share.
20 shares Wide West 52 50 per share.
5 shares Wide West, 50 per share.
30 shares Desert, 23 per share.
20 shares Desert, 24 per share
30 shares Desert, 25 per share.
50 shares Desert, 27 per share.
105 shares Desert, 26 per share.
10 shares Desert, 24 per share—s 60.
45 shares Desert, 26 per share.
35 shares Desert, 25 per share.
50 shares Desert, 29 per share—b 30.
25 shares Desert, 26 50 per share.
12 shares Desert, 27 per share.
50 shares Desert, 26 50 per share.
10 shares Golden Swan, 40 per share.
90 shares Golden Swan, 39 per share.
10 shares North American, 92 50 per share.
55 shares North American, 90 per share.
40 shares North American, 90 per share.
20 shares North American, 92 per share—b 30.
10 shares Bullion, 85 per share—b 5.
20 shares Lady Bryan, 56 50 per share.
10 shares Lady Bryan, 57 per share.
10 shares Lady Bryan, 58 per share—b 30.
20 shares Lady Bryan, 59 per share—b 30.
20 shares Lady Bryan, 56 per share.
23 shares Lady Bryan, 57 50 per share—b 30.
30 shares Lady Bryan, 58 per share—b 30.
10 shares Lady Bryan 57 50 per share—b 30.
30 shares Baltimore American, 50 per share.
10 shares Baltimore American, 52 50 per share—b 30.
40 shares Baltimore American, 50 per share.
10 shares Baltimore American, 49 per share.
20 shares Caledonia Tunnel, 31 per share.
30 shares Real del Monte, 350 per share—b 30.
5 shares El Dorado, 52½ per share—b 30.
10 shares Baltic, 165 per share—b 30.
25 shares North Potosi, 48 per share.
5 shares North Potosi, 50 per share.
5 shares Nevada, Justice Ground, 120 per share—at 90 d
20 shares Bullion, 86 per share—b 30.
10 shares Bullion, 81 per share.
20 shares Bullion, 83 per share—b 5.
30 shares Bullion, 83 per share.
5 shares Echo, 20 per share.
10 shares Dixie, 50 per share.
60 shares Adriatic, 12 per share—b 30.

10 shares Adriatic, 10 50 per share.
10 shares Paris, G. H., 47 50 per share.
25 shares Union, G. H., 12 per share—s 5.
12 shares Ophir, 1550 per foot—s 30.
48 shares Ophir, 1570 per foot.
10 shares Burning Moscow, 117 50 per foot.
20 shares Burning Moscow, 110 per foot—s 30.
20 shares Chollar, 580 per foot—b 30.
8 shares Chollar, 559 per foot—b 30.
1 share Overman, 575 per foot.

S. F. B. OF BROKERS.

5 shares Harmon at 21—b 30.
10 shares Tesoro at 20.
10 shares Baltimore at 52 50.
2 shares Burning Moscow at 114 per foot.
10 shares Burning Moscow at 110 per foot.
10 shares Burning Moscow at 112 per foot.
8 shares Lady Bryan at 62.

AFTERNOON SESSION.

30 shares North American 20 per share.
5 shares North Potosi 40 per share—s 3.
25 shares North Potosi 50 per share.
20 shares North Potosi 50½ per share—b 30.
10 shares North Potosi 52 per share—b 30.
35 shares Baltic, 150 per share.
15 shares Baltic, 150 per share—s 3.
9 shares Caledonia Tunnel, 32 per share.
10 shares Nevada, Justice Ground, 120 per share.
15 shares Real del Monte, 575 per share—b 30.
10 shares Lady Bryan, 55½ per share.
10 shares Lady Bryan, 55 per share.
100 shares Lady Bryan, 57½ per share—b 30.
10 shares Lady Bryan, 54 per share.
75 shares Lady Bryan, 55 per share.
100 shares Lady Bryan, 57 per share—b 30.
10 shares Lady Bryan, 54½ per share.
100 shares Desert, 24 per share.
20 shares Desert, 24½ per share.
5 shares Desert, 25 per share.
10 shares Echo, 28 per share.
5 shares Echo, 30 per share.
10 shares Bullion, G. H., 82 per share.
10 shares Lucerne, 21 per share.
12 shares Ophir, 1575 per foot.
24 shares Ophir, 1580 per foot.
24 shares Dancy 61 per foot.
26 shares Chollar 540 per foot—b 30.
32 shares Chollar 525 per foot.
20 shares Chollar 600 per foot—b 60.
4 shares Chollar, 590 per foot.
8 shares Chollar, 575 per foot—b 30.

THE SAN FRANCISCO STOCK AND EXCHANGE BOARD.

REPORT OF PRICES BID AND ASKED.

SATURDAY, JANUARY 2, 1864.

MISCELLANEOUS.	Bid.	Asked
U. S. Bonds, 7 3-10	—	—
U. S. Legal Tenders	68	69
State Bonds, 7 ₰ ct	89	—
S. F. Bonds, 10 ₰ ct	100	105
S. F. Bonds, '55, 6 ₰ ct.	72½	—
S. F. Bonds, '58, 6 ₰ ct.	—	73
S. F. Bonds, 7 ₰ ct	—	81
Sac City Bonds, 6's	28	—
Sac. Co. Bonds, 6's	—	50
Marysville do, 10's	80	—
Stockton Bonds, 10's	75	80
Yuba Co. Bonds, 10's	82½	90
Santa Clara do, 12's	par & int	
S. Clara Co Bonds, 7's	75	78
Butte Co Bonds, 10's	50	80
San Mateo Co do, 7's	74	78
Cal. Navigation Co	50	50½
State Telegraph	23½	—
San Francisco Gas Co	85	—
Sacramento Gas Co	—	60
S. F. City Water Wks	46	49½
Spring Valley Co	53	—
Virg. & G'd Hill W Co	70	—
RAILROADS.		
Sacramento Valley	24	24
Central	—	—
N. Beach & Mission	—	100
ESMERALDA STOCKS.		
Wide West	48	50
Antelope	175	250
Real Del Monte	250	310
Utah	17	23
Silver Hill	10	15
Jenny Lind	—	7
ESMERALDA.		
Bamboo	21	27½
El Paso	23	26
Crocket	25	—
COSO.		
Josephine, ₰ sh	3	4
Willow Springs	1½	—
Coso	—	8
COPPER.		
Napoleon ₰ sh	40	45
Josephine	—	9
CALIFORNIA.		
Eureka	—	42½
HUMBOLDT.		
De Soto	20	30
WASHOE STOCKS.		
Ophir, ₰ ft	$1490	1500
Gould & Curry	4900	5250
Chollar	595	600
Potosi	1000	1200
Hale & Norcross	—	1000
Sierra Nevada	86	—
Daney	65	65
Burning Moscow	132½	135
North Potosi	—	28
Iowa	—	50
El Dorado	—	60
Norton	4	5
Burnside	—	15
Adriatic	—	8
Pride of the West	53	65
Imperial	—	120
Mt Davidson tl ₰ s	2	—
Crown Point	600	900
Seneca	—	10

MONDAY, JANUARY 4, 1864.

MISCELLANEOUS.	Bid.	Asked
Legal Tender Notes	68	69
Cal. Steam Nav. Co	50	—
S. F. C. Water W'ks	46	—
Virg. & G'd Hill W Co	75	90
Omnibus R. R. Co	—	115
WASHOE STOCKS.		
Ophir, ₰ ft	$1490	1505
Gould & Curry	—	5150
Chollar	605	700
Hale & Norcross	900	950
Sierra Nevada	87½	100
Burning Moscow	130	140
North Potosi	20	45
Chas. Cany	6	—
Iowa	—	50
El Dorado	—	50
Norton	4½	5
Burnside	11	20
Adriatic	6	8
Pride of the West	62½	75
Imperial	—	120
Mt Davidson tun ₰ s	2½	2¾
Crown Point	750	1200
ESMERALDA.		
Wide West	47½	50
Antelope	200	300
Esmeralda	—	18
Real del Monte	—	400
Utah	15	19
Silver Hill	—	14¼
Nevada	—	8
Falls of Clyde	—	3
Bamboo	30	—
Crocket	20	25
COSO.		
Josephine ₰ share	2½	3¼
Willow Springs	1½	2
COPPER.		
Napoleon ₰ sh	35	40
CALIFORNIA.		
Rhodes Diggings	5	10
Fellowes	—	75
HUMBOLDT.		
De Soto	20	30

TUESDAY, JANUARY 5.

MISCELLANEOUS.	Bid.	Asked
Legal Tender Notes	68	68½
S. F. Bonds, '55, 6 ₰ ct.	70	—
S. F. Bonds, '58, 6 ₰ ct.	—	70
Marysville do, 10 ₰ ct.	75	—
Cal. Steam Nav. Co	49½	50½
State Telegraph	23	—
S. F. C. Water Works	46	49
Spring Valley W Co	55	—
Virg. & G'd Hill W Co	75	90
RAILROADS.		
Sacramento Valley	25	26
Omnibus	—	112
WASHOE STOCKS.		
Ophir, ₰ ft	$1505	—
Gould & Curry	—	4975
Savage	2725	2850
Chollar	620	700
Potosi	—	1250
Hale & Norcross	—	950
Sierra Nevada	97½	100
Daney	65	67½
Burning Moscow	137½	140
North Potosi	26	50
Iowa	—	50
El Dorado	35	50
Norton	4½	10
Burnside	11	13½
Adriatic	9	10½
WASHOE STOCKS.	Bid.	Asked
Pride of the West	60	87½
Imperial	100	120
Cedar Hill tl ₰ sh	—	2½
Mt Davidson tl ₰ sh	2	2½
Seneca	3	—
Willow Springs	1½	2
COPPER.		
Napoleon, ₰ sh	35	50
CALIFORNIA.		
Laurel Hill	—	6
Rhodes Diggings	6	12
Eureka	32½	40
Fellowes	75	85
HUMBOLDT.		
De Soto	20	30
ESMERALDA.		
Wide West	48	—
Antelope	225	245
Esmeralda	—	12
Real Del Monte	—	320
Utah	16	22
Silver Hill	11	15
Jenny Lind	1	—
Falls of Clyde	1	1¾
Bamboo	40	100
Crocket	—	25

U. S. Branch Mint.

ASSAYER'S OFFICE, Friday, Jan. 8th, 8 P. M.

Payable—Gold to No. 1 exclusive, deposited 3 days since.
Assayed—Gold to No. 1 exclusive, deposited 3 days since.
Payable—Silver to No. 1 exclusive, deposited 3 days since.
Assayed—Silver to No. 1 exclusive, deposited 3 days since.

WEDNESDAY, JANUARY 6.

MISCELLANEOUS.	Bid.	Asked
Legal Tender Notes	68	68½
State Telegraph	23	26
S. F. C. Water Works	46	—
Spring Valley W Co	55	55½
Virg. & G'd Hill W Co	75	90
RAILROADS.		
Omnibus	—	111
N. Beach & Mission	110	—
WASHOE STOCKS.		
Ophir, ₰ ft	$1500	1530
Gould & Curry	4700	5000
Savage	2750	2800
Chollar	630	650
Potosi	1025	1200
Hale & Norcross	810	900
Sierra Nevada	90	—
Daney	65	67½
Burning Moscow	122	125
North Potosi	25½	—
Iowa	—	50
El Dorado	35	50
Norton	—	5
Burnside	10	13
WASHOE STOCKS.	Bid.	Asked
Adriatic	9½	10
Pride of the West	—	70
Imperial	110	—
Hudson	—	6
Lady Ellen	—	15
Seneca	3	9
Cedar Hill tl ₰ sh	—	2
Mt Davidson tl ₰ s	2½	2¾
COSO.		
Josephine, ₰ sh	2½	3
Willow Springs	1	2
COPPER.		
Napoleon	35	40
HUMBOLDT.		
De Soto	21	30
ESMERALDA.		
Wide West	48	55
Antelope	225	300
Real Del Monte	—	315
Silver Hill	12½	15
Falls of Clyde	—	3
Sunbeam, 1st S W ex	—	2
Crocket	25½	27½

THURSDAY JANUARY 7.

MISCELLANEOUS.	Bid.	Asked
Legal Tender Notes	68	68½
Cal. Steam Nav. Co	49¾	50½
State Telegraph	24	26
San Francisco Gas Co	—	80
S. F. C. Water Works	47½	49
Spring Valley W. Co	53½	56
Virg. & G'd Hill W. Co	75	90
WASHOE STOCKS.		
Ophir, ₰ foot	$1525	1540
Gould & Curry	4950	2750
Savage	2725	2750
Chollar	—	750
Hale & Norcross	—	1000
Sierra Nevada	92	95
Daney	63	65
Burning Moscow	122¾	129
North Potosi	30	50
Chas. Cany	7	9
Iowa	—	50
El Dorado	40	50
Norton	4	6
Burnside	10	15
Adriatic	8½	—
Pride of the West	70	80
WASHOE STOCKS.	Bid.	Asked.
Imperial	120	140
Cedar Hill tl ₰ s	1	2
Mt. Davidson tl ₰ s	2	3
Hudson	—	8
Seneca	1	8
ESMERALDA.		
Wide West	49	50
Antelope	230	250
Esmeralda	—	18
Real Del Monte	—	300
Utah	17½	20
Silver Hill	12½	14
Falls of Clyde	—	2½
Crocket	23	30
COSO.		
Josephine, ₰ sh	1	2½
Willow Springs	—	2
Coso	—	8
COPPER.		
Josephine	—	10
CALIFORNIA.		
Rhodes Diggings	6	14
HUMBOLDT.		
De Soto	20	30

FRIDAY, JANUARY 8.

MISCELLANEOUS.	Bid.	Asked
Legal Tender Notes	67½	69
State Bonds, 7 ₰ ct	89	—
S. F. Bonds, 10 ₰ ct	100	105
S. F. Bonds, '55, 6 ₰ ct.	70	—
S. F. Bonds, '58, 6 ₰ ct.	—	70
S. F. Bonds, 7 ₰ ct	—	81
Sac. City Bonds, 6's	28	—
Sac. Co. Bonds, 6's	—	50
Marysville do, 10's	75	—
Stockton Bonds, 10's	75	80
Yuba Co. Bonds, 10's	82½	90
Santa Clara do, 12's	par & int	
S. Clara Co. do, 7's	75	78
Butte Co. do, 10's	50	80
San Mateo Co. do, 7's	74	78
Cal. Steam Nav. Co	60	—
State Telegraph	24½	26
S. F. Gas Co	—	60
Sacramento Gas Co	—	60
S. F. C. Water W'ks	46	50
Spring Valley W Co	53	—
Virg. & G'd Hill W Co	—	90
Omnibus R. R.	—	169
ESMERALDA.		
Wide West, ₰ ft	$50	—
Antelope	225	250
Esmeralda	—	17
Real Del Monte	310	350
Utah	17	19
Silver Hill	12½	14
Crocket	25	27½
COPPER.		
Napoleon, ₰ share	40	—
COSO.	Bid.	Asked
Josephine	$2½	—
Willow Springs	—	2
CALIFORNIA.		
Rhodes Diggings	6	14
Eureka	32½	—
Fellowes	—	65
Rock River	—	60
HUMBOLDT.		
De Soto	25	29
WASHOE.		
Ophir, ₰ foot	1570	1575
Gould & Curry	—	5050
Savage	—	2750
Chollar	625	620
Hale & Norcross	850	950
Sierra Nevada	89	90
Daney	60	65
Burning Moscow	117½	120
North Potosi	48	50
Charles Cany	8½	11
Iowa	—	50
El Dorado	45	55
Norton	6	8
Burnside	10	12
Adriatic	10½	12
G. H. Quartz Mill	75	80
Imperial	123	—
Mt. Davidson tl ₰ s	2	3
Hudson	—	8
Seneca	—	10

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Thursday, January 7th—quoted at $151⅛.

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A COURSE OF THREE LECTURES WILL BE DELIVERED before the Mechanics' Institute at Music Hall, by the following named gentlemen, who have kindly volunteered their services:—

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The Lectures will be delivered as follows:—

THURSDAY EVENING, January 14th, 1864, by Professor Brewer. Subject: Mountain Scenery of California.

THURSDAY EVENING, January 28th, 1864, by Professor Whitney. Subject: ——

THURSDAY EVENING, February 11th, 1864, by Rev. T. Starr King. Subject: ——

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Copper Mining in Canada.

The Stockton *Independent* contains the following very interesting letter from an old Californian who spent several months last summer visiting the Copper Mines of Canada :—

There appears to be three great copper bearing belts running through Canada East, parallel to the St. Lawrence, on the first of which is the Acton, Wiekham and Durham. The ore is chiefly in limestone. On the second is the Harvey Hill, Halifax and Sutton. The ore here is found in slate. The third includes the Ascot, the Ham and the Garthby mines. The ore is in slate, and much mixed with calespar. There are many others not so well known and developed, but to all appearances just as rich and extensive.

There are no true veins discovered in this region. Faom the surface indications tbe first prospectors were led to suppose that they were the "outcrop" of what would be at a requisite depth, a regular well defined lode. But they have always proved "lenticular masses" or interstratified beds." The lenticular masses are detached masses of very rich ore, having nearly the form of double convex lenses; they are supposed to occupy what were once fissures in the rocks, and to be the product of seggregation. They are often quite large. 100 tons of 40 per eent ore have been taken from one of them. It is from the interstratified beds that the majority of the ore is taken. The ore exists as the name denotes, in thin laminæ, or in grains diffused through the rock. It is worked when it is only two per cent., but it generally is from three to three and a half. The ore is principally tbe purple sulphuret, although almost all kinds exist in some mines. I spent two days at the famous Acton mine, and through tbe kindness of the agent and Captain Williams, I had a good opportunity of seeing it. The large amounts of rich ore which was taken out by the first owners, gave an impetus to mining, and was the cause of the discovery and development of many new ones. It is situated on the Grand Trunk Railroad, 50 miles from Montreal, and 240 from Portland, and is one of the largest and most productive mines in this region, giving employment to 500 men. It is owned by the South Eastern Mining Company, which was organized October 28th, 1862. The capital stock of the corporation is one million dollars, divided into two hundred thousand shares of five dollars each The stock is mostly owned in Boston and New York, as is most of the other stock. The operations at this mine previous to the purchase by the present company were not of a scientific nature. Large masses of rich ore were found near the surface, which was dug out without regard to the manner of leaving the ground, and when the debris had collected to an inconvenient extent, new openings were made, so that tbe older parts of the mine resemble n quarry rather than a mine. The present company have expended, and still are expending, large sums in prospecting the grounds, sinking shafts, and in machinery and buildings; and, although they put into market a large amount of ore, (from 300 to 350 tons per month, averaging fourteen per cent.,) their outlay is equal to their income. Much of this is for dead work. In the future the amounts spent now will yield a return. The mine may be said to be in a prosperous condition. The total sales of copper for the year ending Sept. 30th, 1863, amounted to $230,629.

It may be a proper question to ask how will these mines compare with those of California, as the ores will be in competition with your products. They have many advantages. Labor is quite cheap—mechanics from $1 to $1 50 per day; miners, 75 to 80 cents per day; boys, 30 to 50 cents, exclusive of board. Machinery is less expensive. And lastly, but by no means least, capital is abundant, the wealthy men of Boston and New York have taken hold of these mines. To counterbalance these, their ores are of a low per cent., and require much labor in dressing them up to a profitable per cent., to smelt. The veins are not true veins and consequently more uncertain.

Another important mine is the Harvey Hill, situated about 46 miles south of Quebec, and about 31 miles from the Station, on the Richmond and Quebec Railroad. This mine was opened in 1858, and has been worked in a very scientific manner up to tbe present time. The object kept in view being to explore and prove tbe mine. Rather than to take out ore. Sixty men have been employed, on an average, since the commencement. They have five shafts, and an adit 248 fathoms into the hill. The expenditure upon this mine has been $200,000 while the ore sent to market has been $50,000. The following estimate of the cost of ore from this mine, delivered in Boston is, I think, correct. Cost of getting out and placing on dressing floor, including a proper portion of the expense of drifting and exploring necessary to reach the ore, $4 per ton; dressing, $2 to $3 per ton; barrels holding 500 pounds, 30 cents; $1 41 per miner's ton, 2,352 pounds; freight to Railroad, $9; to Boston, $6. This estimate will do for the Acton mine, deducting the freight to the road.

The Ascot is in the town of Lennoxville, three miles from the station and 190 miles from Portland. The ore is mostly yellow Sulphuret of a rather low grade, about 3½ per cent. The company have established smelting works near the railroad. The chief advantage they have is in the good fluxing qualities of their ore, carbonate of lime being combined with it in the form of calc spar. They have made arrangements with the Acton and other mines to purchase their ores. They reduce them to 40 or 50 per cent regulus and ship it to the Bergen Port Copper Company, near New York, thus making a great saving in freight. They are building large smelting works, and will probably be able to reduce all the ores produced in this part of Canada.

Short Paragraphs.

—The winter has thus far proved exceedingly mild throughout California and its neighboring territory.

—Upwards of thirty-five babies were born in the small mining town of Port Wine last year.

—The Sacramento *Bee* has commenced its eleventh volume.

—F. E. R. Whitney has again been elected President of the S. F. Dashaway Association.

—$200,000 in bullion was received in this city from the mines, last Saturday.

—Mr. Samuel Brannan is preparing a grand summer resort at Calistoga Springs, Napa Valley.

—Kamehamaha, King of the Sandwich Islands, died on the 10th of December. He was 27 years of age. An elder brother succeeds his reign.

—No less than eight editors and publishers of newspapers have died in this State and Nevada Territory during the past twelve months.

—Mons. H. Zeeck, formerly of Gilroy, died in Virginia City on Sunday, after an illness of a few hours only.

—It is said the Baker & Crosby Copper claim at Whisky Diggings, Placer county, is now selling at $100 a foot.

—A man named Hickman, from Yreka, was lately killed by Indians near Washoe Ferry, on his way to the Owyhee mines.

—The corner stone of the new Masonic hall in Marysville was laid with due ceremonies on New Years Day.

—A man who registered his name as C. Kennett, was found dead in his bed at the What Cheer House, in this city, on Sunday morning last.

—Geo. Berge was killed by falling into a mining shaft, at French Bar, East Branch of Feather river, Dec. 7th.

—One of the largest barns in the State, belonging to Mr. Hoag, of Mayfield, Santa Clara county, was destroyed by fire on the night of the 3d.

—Copper was quoted in New York on the 8th of Dec. at 30 cents. Dec. 9th.—Refined Ingot is in fair demand, and firm at 37½@39c ₱ lb.

—The *Alta* says that bogus twenty-five cent pieces are in circulation in this city. Several bogus silver mines have doubtless reached a dividend.

—Hunter died on the 30th of December in the Virginia hospital, from wounds received in a duel with Capt. Pitcher—his fashionable murderer.

—The Golden Age, on Monday, carried a treasure amounting to $1,797,792,81, an excess of $310,430,-90 over the corresponding shipment of last year. She took about 70 passengers.

—Johnny Hollis and Fillmore Bothell, were drowned at Lancaster, N. T., recently, by breaking through the ice. The Humboldt *Register* says both were favorite lads.

—The French bark Harmonie, for Callao, recently carried from this port 400 flasks Quicksilver, 62 pkgs Tallow, 240 pkgs Fire Crackers, 225 pkgs Tea, valued at $21,200.

—According to the Butte *Record*, the copper mines, the agricultural capabilities, the tanning and turpentine resources, and accessibility to the Humboldt and Boise regions will eventuate in making Butte county the wealthiest in the State.

—The Branch Mint in this city was re-opened for business on Tuesday.

—Petaluma is to be supplied with a Hunneman (Boston) Fire Engine.

—Commodore O. H. Perry's watch has been found in Iowa. It is a heavy, bulbous, English affair, and is inscribed, "Presented to Oliver A. Perry, by his father. 1804."

—The Stockton *Independent* states that sufficient rain has not yet fallen to enable the farmers in San Joaquin county to engage in seeding with full confidence of successful crops. Other counties of the State have been more favored.

—The remains of Peter E. Place, who has been engaged in command of a steamer in the waters of China, were recently brought to this city and interred with Masonic honors. Mr. P. was formerly a machinist at the Vulcan Iron Works.

—The Gregory Gold Mining Company of Colorado has been organized in New York, with a nominal capital of $1,000,000, and a Board of Directors embracing some leading capitalists. The day is not distant when Eastern capital will become largely interested in our mines.

—A writer says—"honest miners were of the past. Those of the present day have not inherited the virtues of the forty-niners." We would remind him there is a vast distinction even at this corrupt period between him who wield the steel pick and those who shuffle stocks and pick and steal.

—The crowning section of the statue of Freedom has been raised to its position on the top of the dome of the Capitol at Washington. The statue is of brouze, weighing more than seven tons, and although colossal in size, being about fifteen feet high, its appearance is only of the ordinary size of the human figure, owing to its altitude from the pavement.

—Some short sighted individuals have given their opinions that mining notices required to be published for 30 days, must be issued 30 successive days. The idea is a preposterous one. It would invalidate all publications made in such dailies as make but six issues per week. Nor is there a general State or Territorial law concerning the publication of mining notices rendering it necessary that they be published in a daily instead of a weekly paper.

Treasure from Virginia City.—The Virginin *Enterprise* of January 3d says: During eleven days three claims in this district shipped $275,000 in bullion. Of this amount $185,000 was from the Gould & Curry, $50,000 from the Opbir, and $40,000 from the Savage.

Proposed Woolen Factory at Napa.—Several prominent citizens of Napa are taking steps to organize a joint stock woolen factory in that town.

The Viceroy of Egypt, who sowed about 4000 acres last year in cotton, is said to have planted 19,000 this year, and to have offered to supply the people gratuitously with seed. He hopes next year to see 70,000 to 100,000 acres under cultivation.

Reading without purpose is sauntering, not exercise. More is got from one book on which the thought settles for n definite end in knowledge, than from libraries skimmed over by a wandering eye. A cottage flower gives honey to the bee; a king's garden none to the butterfly.—*Bulwer.*

Value of Pure Air.—The steamer Londonderry left Liverpool for Sligo on Friday, December 2, 1848, with two hundred passengers, mostly emigrants. A storm soon came on. The captain ordered the passengers into the steerage cabin, which was eighteen feet long, eleven wide, and seven high. The hatches were closed, and a tarpaulin fastened over the only entrance to the cabin. The poor creatures were now condemned to breathe the same air over and over again. Then followed a dreadful scene. The groans of the dying, the curses and shrieks of those not yet in the agonies of death, must have been inconceivably horrible. The struggling mass at length broke open the hatches, and the mate was called to gaze at the fearful scene. Seventy-two were already dead, many were dying, their bodies convulsed, the blood starting from their nostrils, eyes, and ears. It does not appear that the captain designed to suffocate his passengers, but that he was simply ignorant of the fact that air which has passed to and fro through the lungs becomes a deadly poison.

Departure Postponed.—The sailing of the steamer *Sierra Nevada* for Cape St, Lucas, Mazatlan, Guaymas and La Paz, Lower California, has been postponed to Monday, January 11th., 3 P.M.

Miscellaneous Advertisements.

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And SETS AS GOOD A TABLE as any House in the City.

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Steen's Improved Governor

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A PORTION OF THIS STOCK IS NOW OFFERED TO THE PUBlic, and recommended as an investment.

Full Paid and Unassessable Stock,

Also Assessable Stock, can be obtained of A. J. DOWNER & CO., the authorized Agents of the Company,

406 Montgomery Street.

President.....R. S. WHIGHAM.
Secretary.....W. FISK HITCHCOCK.
Treasurer.....MONTGOMERY GODLEY.
Superintendent.....WILLIAM FLEMING.
Engineer.....J. E. CLAYTON.

TRUSTEES:

R. S. WHIGHAM, formerly of Whigham's Mill,.....Nevada City.
WILLIAM FLEMING.....of San Francisco.
SPIER RIDDEL.....Paying Teller of Parrott & Co's.
ISAAC SWAIN.....of A. J. Downer & Co.
WILLIAM P. PRATT.....of Nash & Fogg.

Office of the Company 328 Montgomery Street. jltf

T. C. SANBORN & CO.

Stock Brokers,

No. 630, Montgomery Street,.....San Francisco.

OPHIR SILVER MINING STOCK.
GOULD & CURRY MINING STOCK,
CHOLLAR MINING STOCK,
CALIFORNIA STEAM NAVIGATION COMPANY'S STOCK,

☞ **BOUGHT AND SOLD.** ☜

jltf

Owen's River Canal Company.

FOR SALE, FOR ACCOUNT OF THE COMPANY, 7,000 SHARES of the above stock, at $1 per share. It is confidently presented to the publicas the best investment, for the price, now offered in this market.

Office of the Company No. 328 Montgomery street. tf

Removal.

OFFICE OF THE PACIFIC METALLURGICAL OFFICE IS REmoved to 509 Sacramento street. Having enlarged our works at North Beach, we are now enabled to reduce from 10 to 15 tons of Silver or Gold rock per day.

Gold and Silver ore, and Sulphuret Assayers', or Silversmiths' sweepings reduced or purchased.

COPPER ORES—Highest market rates advanced in cash, for Shipments. S. C. BRADSHAW, Agent,

509 Sacramento street, near Sansome.

HEPBURN & PETERSON'S.
AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION OF THE Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos. 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machines now in use for producing similar results. This fact is attested to by their general adoption and prefcrence at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

nov8 3m* HEPBURN & PETERSON.

The Pacific Mineral Company

MAKE LIBERAL ADVANCES

UPON THE ORES OF

Copper, Silver, Tin, Nickel, Cobalt, Zinc, Lead, and Sulphurets—containing Gold.

DUE ACCOUNT TAKEN OF ALL VALUABLE METALS COMbined with Silver and Copper Ores, and advances made therefor.

Parties owning undeveloped mines and desiring Capital to prospect the same will receive assistance, if, upon examination, such leads are deemed sufficiently valuable to justify such expenditure.

Office, No. I, Odd Fellows' Hall,

jeltf Montgomery Street, San Francisco.

Mining Shares for Sale
— BY —
C. A. CRANE.

Office 28 Government Block.

475 Shares U. S. Mining Company, Virginia City.
910 Shares Granada Gold and Silver Mining Company, Virginia Hill, Virginia City.
168 Shares Evoca Consolidated Copper Mining Company, Crescent City, Cal.
20 Shares Mohava Mining Company, La Paz District, Colorado, N. M.
30 Shares Aspinwall Gold and Silver Mining Company, Devil's Gate District, N. T.
75 Shares Washington Copper Mining Company, Indian Bar, Tuolumne Co.
228 Shares Montezuma Gold and Silver Mining Company, Inyo District, Tulare Co.
90 Shares Owen's County Consolidated Gold and Silver Mining Company. Inyo District, Tulare Co.
50 Shares Crown Point Ravine Gold and Silver Mining Company, Virginia District, N. T.
10 Shares Triunfo Gold and Silver Mining Company, San Antonia District, Lower California. jl tf.

W. W. HANSCOM,

Steam and Mechanical Engineer. Designs furnished, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc., etc. Agent for McKenzie's Patent Cupola and Blower.

At the Golden State Iron Works,

First Street, San Francisco.

tf.

N. LOMBARD INGOLS,
Accountant and Mining Secretary.

NO. 10 GOVERNMENT HOUSE, CORNER OF WASHINGTON AND SANSOME STREETS, SAN FRANCISCO.

OFFICE OF THE
SANTA CRUZ PETROLEUM OIL WORKS,
GEM SILVER MINING CO., (REESE RIVER, N. T.,)
LAUREL G. & S. MINING CO., COPALA, SINALOA, MEX.

N. B. Mr. Ingols will pay particular attention to the adjustment of complicated accounts, Commercial and Incorporated Companies' Books, to drawing up Commercial writings and to Engrossing legal or other documents with neatness and dispatch. An experience of more than twenty-five years in every branch of his profession is a guaranty of his practical and thorough acquaintance with its duties. He has the privilege of referring to some of the leading mercantile houses and legal practitioners on the Atlantic and Pacific sides, for testimony of his business and clerkly abilities. jltf.

MINERS' FOUNDRY
—AND—
MACHINE WORKS,

First street, between Howard and Folsom streets,
SAN FRANCISCO.

EVERY DESCRIPTION OF IRON AND BRASS MACHINERY, the **Best** and **Most Economical**, manufactured in the State of California, will be furnished with dispatch at the Miners' Foundry and Machine Works, as:

Steam Engines and Boilers, Flour, Saw and Quartz mill machinery, Mining Pumps, Amalgamators, Retorts, Etc., Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections, designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities will be afforded ample facilities, free of cost.

All parties desiring accurate and highly finished drawings and Superior Machinery, at most reasonable rates are cordially invited to call before contracting elsewhere.

HOWLAND, ANGEL & KING.

San Francisco, February 23, 1863. tf.

50 lbs. MARINE AND
FIRE-PROOF PAINT,

MANUFACTURED BY THE PACIFIC METALLUROICAL Works in the city, for Hulls and Decks of Vessels, from ground Mineral Rock, contains Arsenic, Copper, Litharge and six other Minerals. When used on the Decks or Bottoms of Ships, it is equal to a coat of Stone, and quite equal to Copper; no worms will ever effect it, and it is cheaper than any other paint.

DIRECTIONS.—For Deck of Ships, use two parts Mineral Paint, one part White Lead, mix with Linseed oil.

For Bottoms of Vessels, use one part ground sulphur, three parts Mineral Paint; mix with Coal Tar and apply it hot.

For sale by all Ship Chandlers and tradesmen, in boxes of fifty pounds each, or by the Pacific Metallurgical Works.

25 lbs. FIRE-PROOF PAINT.

When used on Roofs, Buildings, or Fences it is equal to covering them with a coat of Stone, being perfectly Fire-Proof, and costing less than any paint.

DIRECTIONS.—House—Mix three parts Mineral paint with one part white lead; mix with Linseed oil. If a lighter color is wanted, mix less paint, more lead.

ROOF.—Five parts of Mineral Paint, one part white Lead; mix with Linseed oil. Put it thick on a Tin Roof, as one coat when properly applied will last three years.

S. C. BRADSHAW, AGT.

G. T. FOUQUE, Superintendent.

WORKS, North Beach; Office, 509 Sacramento St., San Francisco. tf.

THE RAILROAD HOUSE.

Nos. 318 & 320 Commercial and Clay Sts,
SAN FRANCISCO.

H. T. FELTON,.....Proprietor.

THE ABOVE HOUSE IS A FIRE-PROOF BUILDING, WITH Granite Front, and kept on the European Plan, with board and lodging by Day or Week to suit the convenience of our Patrons.

The rooms are handsomely Furnished, supplied with Patent Spring Beds, and Hair Mattrasses, affording very superior accommodations for families or single persons.

The Table is supplied with the best the market affords at prices to suit the times.

The Rail Road House Coach is always in attendance at the Steamers to convey passengers and their baggage to the House **Free of Charge.** ☞ **The House is open all Night.** ☜

j2-tf

Mining Notices.

Great Central Mining Company.—Notice is hereby given that by order of the Board of Trustees of the Great Central Mining Company, pursuant to the By-Laws thereof and the laws of the State of California, there will be sold at public auction, on WEDNESDAY, February 10, 1864, to the highest bidder, at the auction rooms of Jerome Rice & Co., 327 Montgomery St., San Francisco, so many shares of said Company standing in the names of the following persons as will pay the amount due for assessments, together with costs of advertising and sale:

Names.	Shares.	No. Assts.	Amount.
Jas S Trimble	100	1 2	$50 00
G W Melone	10	2	2 50
M Devlin	20	2	5 00
W C Smith	5	2	1 25
P H Lovell	25	2	6 25
E H Rockwell	50	2	12 50
Max Strobel	600	1 2	300 00
Jas P Newcomb	100	1 2	50 00

2 1m H. C. KIBBE, Secretary.

Great Central Mining Company, Arizona.—San Francisco, December 24th, 1863.—The first annual meeting of Stockholders in the Great Central Mining Company, will be held on THURSDAY, January 7th, 1864, at the Office of the Company, 542 Sacramento street, at 7 o'clock, P. M. By order of the President.

j1 1t H. C. KIBBE, Secretary.

Enterprise Copper Mining Company.—Office 528 Montgomery street, San Francisco. At a meeting of the Board of Trustees of this company, held December 12th, an assesment of ten cents per share was levied, payable immediately, and another assessment of eight cents per share, payable January 1st, 1864, and another assessment of eight cents per share payable February 1st, 1864, all payable in U. S. gold coin, to Thomas S. Levy, the Treasurer, at Lincoln, Placer county, or to the Secretary, at the office of the Company. By order of the Board of Trustees.

M. G. ELMORE, Secretary.

Occidental Copper Mining Company, Office northeast corner Pine and Montgomery streets, San Francisco, December, 29th, 1863.—An assessment of Thirty Cents per share was this day levied on each and every assessable share of the capital stock of the Occidental Copper Mining Company, payable immediately to the Secretary, in U. S. gold coin. By order of the Board of Trustees

EDW. BARRY, Sec'y.

Fair Haven Gold and Silver Mining Company, Cortes District, Reese River.—At a meeting of the Trustees of the above Company, held Dec. 29th, 1863, an assessment of Seven Cents per share was duly levied and made payable immediately at the Office of the Secretary, 400 Front Street.

W. H. DANIELS, Secretary.

Hudson Gold and Silver Mining Company, (Devil', Oate District,) office No. 804 Montgomery street, San Francisco, December 19th, 1863.—At a meeting of the Board of Trustees of this Hudson Gold and Silver Mining Company, held this day, December 19th, 1863, an assessment of One Dollar per share was duly levied on each and every share of the Capital Stock in said Company, due and payable immediately, in United States gold coin to the Secretary, at the office of the Company, in this City, or to A. W. Hale, Esq., Superintendent, at Virginia City.

j2-1m I. LAWRENCE POOL, Sec'y.

Mohave Mining Company.—A Special meeting of the Stockholders of the above named Company will be held on the 14th day of January, 1864, at 7½ o'clock P. M., at No. 606 Montgomery Street. By order of the President. H. H. LAWRENCE, President;

1 G. J. TURNER, Sec'y.

Sarah Frances Gold and Silver Mining Company, Markleville.—Assessment No. 7. of Fifteen Cents per share, was levied by the Board of Directors, December 28th, 1863 payable to FRANCIS V. SCUDDER, Sec'y.

Rooms of the Company, 9 and 10, northeast corner of Montgomery and Pine streets. j2-1m

Scorpion Silver Mining Company.—Notice is hereby given, that by a resolution adopted by the Board of Trustees of the Scorpion Silver Mining Company, at a meeting held on this day, an assessment of twenty-five (25c.) cents was levied upon every share of the Capital stock of said company, to be paid in gold coin of the United States, on or before the 29th day of January, 1864, at the office of the company, No. 617 Clay street.

W. H. MARTIN, Sec'y.

San Francisco, December 29, 1863. j2-1in

Conqueror Gold and Silver Mining Company.—Office southeast corner of Front and Sacramento streets, San Francisco December 29th 1863—At a meeting of the Trustees of the Conqueror Gold and Silver Mining Company held this day, an assessment of Twenty-five (25c.) Cents per share on each and every share of the capital stock of the said Company was levied, now due and payable immediately in U. S. gold coin, to the Secretary, at the above named office. By order of the Board of Trustees.

j2-1m WM. W. KNIGHT, Sec'y.

Carrie Copper, Gold and Silver Mining Company.— The First Annual Meeting of the Stockholders of the Carrie Copper, Gold and Silver Mining Company, will be held at the Company's office, No. 523 Clay street, on MONDAY, February 1st, 1864, at 3 o'clock, P. M., for the election of officers and the transaction of such other business as may come before it. (1-1m) B. W. MUDGE, Sec'y.

Puritan Gold and Silver Mining Company, (Devil's Gate District, N. T.)—Notice is hereby given that the Trustees of the Puritan Gold and Silver Mining Company have this day levied an assessment of one dollar on each and every share of the capital stock of said company; said assessment payable immediately in gold coin to the Secretary, at the office of the company, No. 623, Washington street. H. B. CONGDON, Secretary.

December 26, 1863. 1-m

Bullion Gold and Silver Mining Company, Van Horn District.—Notice is hereby given that a meeting of the stockholders of the above named company will be held at the office of the Secretary, at 7 o'clock on MONDAY EVENING, the 25th day of January next, for the election of officers, and the transaction of other legal business. By order of the President,

San Francisco, Dec. 19, 1863. (2-m) T. L. BIBBINS, Sec'y.

California State Library.—Rooms corner of J and Second streets, Sacramento. Hours from 9 A. M. to 10 P. M., during the session of the Legislature, and from 9 A. M. to 4 P. M. at other times. Free to all. W. STRATON, State Librarian.

W. P. DENCKLA. A. L. CHAMBERLIN.

DENCKLA & CHAMBERLIN,

Stock and Exchange Brokers,

No. 413 Montgomery Street,

SAN FRANCISCO.

☞ Deeds, etc., for record in Humboldt County, Nevada Territory, received and forwarded. 1-tf

L. B. ADSIT & JOHN J. HALEY,

Stock Brokers,

MEMBERS OF THE STOCK AND EXCHANGE BOARD OF BROKERS and of the PACIFIC BOARD OF BROKERS.

Stocks Bought and Sold only on Commission.

No. 604 MONTGOMERY STREET,

1-tf Between Clay and Merchant, San Francisco.

WM. S. LYON & CO.,

Stock and Exchange Brokers,

308 Montgomery Street, corner of Pine,

SAN FRANCISCO.

QUARTERMASTER'S WARRANTS BOUGHT. THE HIGHEST Price paid for Legal Tender Notes. Open till 9 P. M. 1-3m

H. S. HOMANS,

NOTARY PUBLIC,

And Commissioner of Deeds for Nevada Territory,

MINING SECRETARY, CONVEYANCER, ETC.,

No. 605 Montgomery Street, between Clay and Merchant,

1-1m SAN FRANCISCO.

A. C. MORSE,

Mining and Real Estate Agent,

Office, S. W. corner Pine and Silver Sts., Aurora.

HAVING MADE ARRANGEMENTS WITH MINER S. MARTIN, Esq., one of the principal Stock Brokers of San Francisco, I am prepared to BUY and SELL every description of Mining Stocks in Esmeralda District. tf

ISAAC TABOR. JOHN HILL.

TABOR & HILL

Stock Brokers & Real Estate Agents,

502 Montgomery Street, corner Sacramento,

BUY AND SELL MINING STOCK ON COMMISSION. ARE MEMbers of the San Francisco Stock & Exchange Board, and of the San Francisco Board of Brokers. nov23-tf

ARMES & DALLAM,

IMPORTERS AND JOBBERS OF

WOOD AND WILLOW WARE,

Brushes, Twine, Cordage, Etc.,

And Manufacturers of California Pails, Tubs, Brooms, Etc.,

217 and 219 Sacramento St., between Front and Davis,

2-tf SAN FRANCISCO.

W. H. BAXTER & CO.,

MANUFACTURERS AND IMPORTERS OF

HARNESS AND SADDLES,

BRIDLES, WHIPS, COLLARS, SADDLERY WARE, Etc.,

407 Battery St., between Clay and Merchant, San Francisco.

N. B.—All kinds of Work made to order and Warranted. Jobbing done with neatness and dispatch, and on the most reasonable terms. 2-tf

EDWARD BOSQUI & CO.,

517 Clay Street, San Francisco,

Book-Binders, Paper-Rulers,

And Blank Book Manufacturers.

Blanks of all kinds printed and ruled to any desired pattern. [2-tf

GEO. B. HITCHCOCK & CO.,

Counting-House Stationers,

HAVE ALWAYS IN STORE A WELL-SELECTED STOCK OF

American and Foreign Stationery.

☞ Blank Books of all kinds, manufactured to any desired pattern, and at the shortest notice. Mining Companies supplied in the best manner, and at reasonable rates.

GEO. B. HITCHCOCK & CO.,

2-1m 413 and 415 Sansome St., cor. Commercial, S. F.

E. C. DAKE,

Dealer in Clothing and Gent's

Furnishing Goods,

541 and 543 Washington Street, Montgomery Block,

j2.tf San Francisco.

WM. P. TAAFFEE,

IMPORTER AND JOBBER OF

Staple and Fancy Dry Goods, Carpets, Duck, etc.,

1-tf Corner of Front and Sacramento Streets, San Francisco.

NATHANIEL GRAY,

General Furnishing Undertaker,

641 Sacramento St., corner of Webb, San Francisco.

DESKS AND OFFICE FURNITURE OF ALL KINDS, FOR SALE BY

JOHN WIGMORE,

No. 423 California St., San Francisco.

OFFICE JOBBING, of all kinds, promptly attended to.

j2-tf

San Francisco Silver Mining Company, Lower California, Office 542 Sacramento street, San Francisco, December 24th, 1863—Notice is hereby given that in accordance with the laws of the State of California, and the By-laws of the Company, and an order duly made by the Board of Trustees of the San Francisco Silver Mining Company, there will be sold at public auction, at the sales-room of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on MONDAY, January 25th, 1864, to the highest bidder for cash, in U. S. gold coin, so many shares of the capital stock of said Company, standing in the names of the following persons, as will be sufficient to pay the assessments heretofore levied and past due, together with the cost of advertisements and expenses of sale, unless said assessments and charges are sooner paid.

Names.	Shares.	Amount.
S. C. Bradshaw	430	$304 05
S. C. Bradshaw, Jr.	20	7 12
Geo. B. Reeves	25	8 12
E. T. Peck	50	17 50
J. R. Stewart	25	17 50
C. H. Parker	75	15 00
G. H. Ames	5	1 00
Wm. H. Buffington	6	1 20
C. Boardman	25	8 12
J. M. Cummings	90	18 00
H. W. Chesney	10	1 00
Francis Cutting	5	1 63
H. Kimball	10	1 00
Mrs. C. Smith	8	80
E. Sammis	10	1 00
C. Lasselle Taylor	125	12 50
J. R. Warren	10	1 00
Geo. O. Whitney	75	15 00
J. B. Ryder	75	15 00
Robet. C. Bartlett	20	2 00
Martin P. Townsend	10	2 00
John Pinkhaber	5	1 00
Mrs. C. S. Brownell	7	70
John Perry	5	50
Simon Strahan	5	50
W. T. James	5	1 62
Henry S. Smith	20	2 00
W. L. Anderson	25	2 50
Chas. M. Cornell	10	1 00
P. J. Wood	25	6 00
John A. Lundquist	5	50
Thos. Pike	25	2 50
G. W. Smith	10	1 00

By order of the Board of Trustees.

dec23-4t H. C. KIBBE, Secretary.

Enterprise Copper Mining Co.—Office, 528 Montgomery St., San Francisco. Notice is hereby given that there will be sold at the office of the Enterprise Copper Mining Company, on SATURDAY, January 30th., 1864, at 10 o'clock, A. M., so many shares of the Capital Stock of said Company as will be necessary to pay all assessments due and delinquent, December 10th., 1863, standing in the names of the following parties:

	Share.	Am't. due.
William Harris	400	$100 00
J. P. Sumeron	100	20 00
John M. Cannon	25	7 50
Thomas Donahoe	15	4 50
John Cochran	25	7 50
G. W. Melone	01	3 00

By order of the Board of Trustees. M. J. ELMORE, Sec.

1m

El Tesoro Silver Mining Company, December 17th, 1863.—Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Tesoro Silver Mining Company, December 14th, 1863, there will be sold at public Auction, by Jerome Rice & Co., 327 Montgomery St., San Francisco, on MONDAY, January 18th, 1864, at Eleven o'clock, A. M., so many of the Shares of the Capital Stock of the Company, standing in the names of the following persons or shareholders, as will be necessary for the payment of assessments duly levied thereon, together with the expenses of advertisement, and all other expenses of sale, to wit:

Shareholders.	No. Ass't.	No.	Shares.	Amount.
Samuel B. Dean	1 2 3	4	112½	$0,337½
G. W. Johnson	1 2 3	4	150	450
Mateo Musick	1 2 3	4	337½	1,012½
T. T. Bradshaw	1	4	512	1,156
S. C. Bradshaw	1 2 3	4	1241½	1,110½
S. C. Bradshaw, Jr.	1	3 4	15	29¾
Geo. H. Bradshaw	1	3 4	53	236¾
P. Kalkman		4	15	7½

By order of the Board of Trustees.

dec28 3t H. C. KIBBE, Sec'y.

Mammoth Consolidated Gold & Silver Mining Co., Excelsior District, N. T.—Office 528 Montgomery St., San Francisco, Nov. 18, 1863; Notice is hereby given that there will be sold at Public Auction, at the office of the Company, in San Francisco, on Saturday January 9th., 1864 at 12 o'clock, M., of that day, to the highest bidder, for cash in U. S. gold coin, so many Shares of the Capital Stock of said Company standing in the names of the following shareholders as will be necessary to pay assessment No. 1., of ten (10) cents per share, duly levied thereon by the Board of Trustees on the 9th. of May, 1863; also assessment No. 2., of thirty (30) cents per share, duly levied thereon by the Board of Trustees on the 27th of June, 1863, together with all the expenses of advertising and sale, unless said assessments are previously paid to M. G. Elmore, Sec., San Francisco, or to W. H. Dalrymple, Financial Sec., Aurora.

Names	No. Cer't.,	No. Ass't.,	Shares,	Am't.
J B Best	74 343	1 2	300	115 00
G W Baily	344	1 2	200	80 00
J J Coddington	358	1 2	56¼	22 50
D C Crooker	334	1 2	250	100 00
T A Cutter	25 393 to 403 incl'	2	125	37 50
J R Dudleston	27 28	1 2	50	20 00
WD Garland	437 442, 450 451, 508	2	275	82 50
D H Haskell	65 to 69 incl'	1 2	50	20 00
James Jaques	333	1 2	250	100 00
R P Johnson	443	2	100	30 00
J H Latcham	283 284 285 to 291 incl'	2	60	16 93
E J Mathews	34	2	200	60 00
W Mason	92 462	2	13	3 90
John Patten	418 417	2	15	4 50
Geo Raymaud	126 to 131 incl', 136 to 142 incl'	2	125	37 50
G H Rogers	143 to 151 incl'	2	200	60 00
J S Shultz	361 487	1 2	95	38 00
G D Myers	360	1 2	5	2 00
A J Severe	170 to 189 incl'	2	200	60 00
N Steiner	118 to 124 incl'	1 2	100	40 00
H S Van Dine	218 338	1 2	175	68 75
H Watson	263 to 267 incl'	2	25	7 50
J C Durragh	268 to 274 incl.	2	50	15 00
J M Meredith	77, 446, 447	2	100	25 00
J Hawkins	73, 452, 456, 455, 454	1 2	175	70 00
C E H Wheaton	570	1 2	25	10 00

By order of Board of Trustees.

M. G. ELMORE, Secretary.

The above sale is postponed until Saturday, January 30th. 1864, at the same place and hour. By order of the Board of Trustees.

2 M. G. ELMORE, Secretary.

Mining and Scientific Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

VOLUME VIII. SAN FRANCISCO, SATURDAY, JANUARY 16, 1864. NUMBER 3.

A PATENT STONE BREAKER.

The machine illustrated by the annexed cuts is known as "Blake's Stone Breaker," and has recently been patented in the United States and several foreign countries. It is designed to break stones into small fragments, without pulverizing them to any considerable extent. It is powerful yet simple and compact, not liable to get out of order, and a most efficient machine for the purpose for which it is designed. Although intended chiefly for crushing rock for road making, it is most admirably adapted for crushing the poorer class of copper ores previous to the process of assorting.

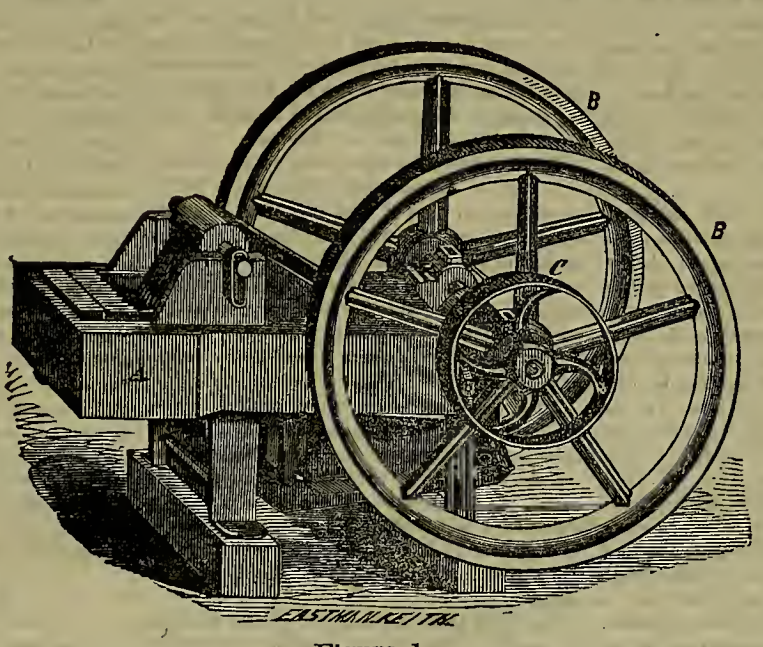

Figure 1.

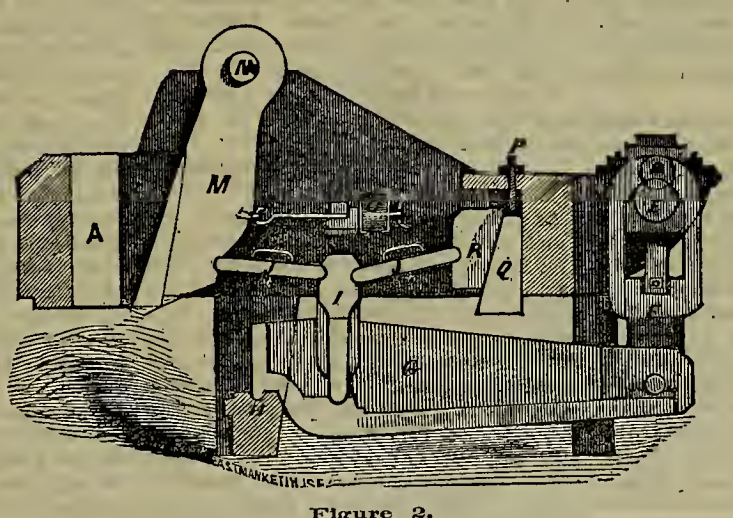

Figure 2.

Figure 1 is a perspective view of the machine entire. Figure 2 shows a side view, or elevation of the effective portions of the machine.—M is a moveable jaw which is made to move forward and back by the working of the toggle joints J J. Every revolution of the crank causes the lower end of this jaw to advance toward the fixed jaw about ¼ of an inch. Hence if a piece o rock is dropped between the convergent faces of the jaws it will be generally reduced to the size at which they are set at their lower extremity. The distance between the jaws at that point, limits the size of the fragments, and this limit, and consequently the size of the fragment may be regulated at pleasure.

From the above description, the peculiar adaptability of this machine to the reduction of refuse copper ore to the size required for ready concentration, must be apparent to all copper miners. Mr. Lemuel Hubbard, of this city, is agent for California and the Pacific coast.

California Agricultural Society.—The General State Agricultural Convention for the election of officers, for the ensuing year, and for the consideration of subjects connected with the objects of the society and the advancement of the material interests of the State, will be held at the Pavilion in Sacramento, to commence on *Tuesday, the 26th inst.* We are pleased to observe, from the circular of the Secretary, Mr. Hoag, that the prospects of the society are in a most flattering condition. The debt has been reduced the past year over seven thousand dollars, with an appropriation from the State of less than half that received in each of the two preceeding years. We trust a full delegation will be in attendance upon the day of election.

THE MECHANICS' INSTITUTE LECTURES.

The first of the present series of lectures announced by the San Francisco Mechanics' Institute, was delivered on Thursday evening last at Platt's Hall, by Professor Brewer, of the State Geological Survey. The Professor selected for his theme "The Mountain Scenery of California," a subject with which the lecturer was perfectly at home; his connection with the survey having rendered him familiar with much of the grandest and most picturesque scenery of the State. The speaker made numerous and very happy points, which were appropriate and well received by the audience. He contrasted the scenery of the Sierra with that of the Alps, and drew comparisons highly advantageous to California. He said that thousands would cross the Atlantic in search of scenery and climate that is far excelled upon our own shores. The attendance at the lecture was very fair, and the audience evinced much interest throughout the evening. The number of tickets sold for this lecture alone was about 700, in addition to which about four hundred dollars has already been realized from season tickets. The series of lectures has been fairly and favorably inaugurated, and may be looked upon as a decided success. The receipts in excess of printing and hall expenses are to go towards liquidating the indebtedness of the Institute. The services of the Secretary are gratuitous. The object, aside from the literary treat presented, is well worthy the patronage of our citizens.

The Mechanics' Institute is one of the most important associations connected with the progress of this city.

The Colorado.—Articles of incorporation were filed on Wednesday last by the "Colorado Steam Navigation Company," with a capital of $500,000.

Communications.

[Written for the Mining and Scientific Press.]

Copper Districts of the Colorado.

Editor Press:—As copper mines and Copper mining have assumed such large proportions on this coast within the last two or three years, it is very natural for the public to desire all the information relating to copper mines that can be obtained. Having spent several months on the Colorado, exploring the mineral ranges near that river from the head of navigation, down to La Paz, (a distance of about two hundred miles,) I will give such facts in connection with copper mines as came under my personal observation.

There are three facts upon which the value of copper mines depend; first, the *quality* of the ore; second, the *quantity;* and third, the *location* of the mine in relation to navigable waters. With these facts in view I confined myself to the neighborhood of the river, including the slope of the mountains on each side for a distance of fifteen to twenty miles, well knowing that a rich mine located in a desert remote from water transportation could be of no practical value. In ascending the river from El Dorado cañon the first place that copper has been found in workable quantity is the Erataha District, situated about twenty-five miles south-west of Fort Mojave, and varying from six to fifteen miles west of the river.

This district is well situated for work and transportation, having easy grades from the mines to the river bank. The quality of the ore is good; the carbonates, oxides and gray sulphurets are the predominating varieties. The quantity of ore cannot yet be approximated, but from the appearance of the croppings, I should judge that quite a number of veins will yield good ore in sufficient quantity to make them very profitable to the lucky owners. The majority of the claims are located by the officers and men composing the command of Capt. J. Ives Fitch, stationed at Fort Mojave. Gen. Winn, Mr. Poindexter and some other citizens have also some good claims located here. The district, taken as a whole, is a valuable one and well worth the attention of those seeking investments in copper mines. The geological structure of the district is nearly the same as that of the Williams' Fork and Freeman Districts.

After leaving the Eretaba District there is but little appearance of copper ore until you get to the Freeman District, some sixty miles south or southeasterly, and nearly opposite the mouth of Williams' Fork, which is a small stream that enters the Colorada from the east side.

At this point the Colorado cuts through a broad range of black and redish brown hills or low range of mountains, composed of porphyry, conglomerate, redish brown sandstone, granular trap and many varieties of metamorphic rocks, of every color, making altogether a very striking and singular appearance. This belt of mountains is from thirty to forty miles wide, and is much divided by cañons and segregated ridges. I think this range of mineral country belongs to the triasic series of rocks, so famous in other parts of the world for their rich deposits of copper. The Freeman District on the west side, and the Williams' Fork District on the east side of the river covers the available portions of this mineral belt, a distance of twenty miles back from its banks. The general course of these copper ranges appear to run in a N. W. and S. E. direction, and are distinguished by their black and redish brown colors, called by the miners "burnt ranges." In fact the mountains, in many cases, are capped over with lava and volcanic scoria, which would seem to favor the idea that the country has been burnt to the extent of desolation.

The veinstone or guangue containing the ore is generally composed of spathic iron, heavy spar and quartz; it is very rare that you see a vein in which quartz predominates. The ore exists in almost every variety from the carbonate stain, to copper glance. The gray sulphurets will probably be found in excess when the mines are opened near the water line, but the oxides and carbonates are the predominating ores on the surface.

The navigation, to this point, is good and the landings are better than on any other portion of the river that I saw; the narrow bottoms along the banks give sufficient room for towns and residences to supply the demands of the mining interest. I shall not attempt to give anything like a definite opinion of the comparative value of different leads or veins, my object is to give general facts relating to the character and position of the copper ranges on the line of the Colorado. In the last named districts there are hundreds of small veins or stratas of copper ore of great richness that will never be of any permanent value; the quantity of ore being too small to pay for the cost of working them. From these small veins come most of the very rich specimens that you see exhibited in the hands of parties from the Colorado country.

The Chimewawa District, still further down the river, on the west side, and nearly opposite La Paz, shows some good ore, but I should judge the veins to be somewhat uncertain in extent. They have the appearance of being segregated or lenticular veins, giving small quantities of very rich ore.

The Weaver district some twenty miles southeast of La Paz, on the east side of the river, is full of small lenticular veins of very rich ore. The veins are also 'pockety,' and associated with a glassy quartz gangue in which the ore is found in lumps and bunches from the size of a walnut to that of a flour barrel. I am inclined to the belief that the surface working of some of these veins will be very profitable, but for permanent mining I think they are somewhat hazardous.

A fine vein of copper ore, of good quality, has been opened in Salaza or La Paz district, some thirty-five miles east or perhaps northeast of La Paz, called the Apache Chief. Gold, silver and lead are found in the same neighborhood, and a large number of claims have been located. The records of this district are kept at La Paz. The objection to this is its distance from the river and the scarcity of water and grass.

The Castle Dome district is still further south, on the east side of the river, its location is twenty-five or thirty miles north of the Gila, and about the same distance east of the Colorado. I did not visit it, but samples of ore that I saw looked well. It also contains veins of argentiferous galena.

So much for the copper mines. In a subsequent article I will speak of other features of the country that may be of interest.

Investigator.

An Extraordinary Mental Development.—An Eastern correspondent of the *Boston Commonwealth* gives the following account of a wonderful mental development which has recently been noticed in a person lately arrived at Bombay from Madras. He is known more particularly from his skill as a chess player. He is between 45 and 50 years of age. He plays several games—three, if I remember—blindfolded, and wins them. At the same time plays a game of cards—there are 120 different cards in a Hindoo pack—and wins. At the same time when these games are going on, he is given "orally" sums of multiplication to the extent of four figures (e. g. 9,397 by 8,999) and gives the correct result. At the same time a sentence of about 100 words, each word being numbered, is given to him irregularly (35 if, 92 but, 61 pitcher, etc.) and he gives the whole sentence. During the game a bell is touched every one or two seconds, and he gives the number of times it has been touched. A man stands behind and throws little pebbles, one by one, against his back; these too he counts. And after the games are over, and all these told, he recites a poem in perfect rhyme, which he had composed during the sitting! [?]

Reese River Letters.

We are permitted to take the following extracts from a private letter, dated Austin, (Reese River,) Jan. 2nd, 1864:—

SMOKY VALLEY.

This valley is about ninety miles long, reaching from the neighborhood of Simpson's Park, on the north, to a cross valley at the edge of the Colorado desert on the south, with an average width of about fifteen miles. The first district, beginning north, is the Mountain district, containing a number of good ledges; among which may be enumerated the Mountain, Croesus, and Clifton. Going south we next come to the Smoky Valley district, in which are the Keystone, Olive Branch, Mount Vernon, Smoky Valley, Mammoth, Hope, Gen. Shields, Yellow Jacket, Indian Queen, Union, Diamond, Antiquarian, Comstock, Clinton, Jupiter, Gibson, Masonic Tunnel Company, Chieftan, Occidental, Webb and Canon, Ne Plus Ultra, Napoleon, Globe, and many others, all large and I think rich. Still going south we come to the Santa Fe district, where we find the Robespiere, Otho, Boston, Henry Clay, Southern Rights, and I could mention others, but the list is already getting too long. Going still farther south, we find the Bunker Hill district. Here we have the Blue, Morning Star, Real del Monte and others. South of this is La Plata district, where we find the Mammoth, Desert, La Plata, and a few more; then comes the Marysville district and King district, with lots of ledges; but I will not trouble you with a list of their names. South of this are the Hot Springs.

Going still south we find that Smoky Valley opens into another valley running east and west. Crossing this we find, on what I should call an oasis in the Colorado Desert, the San Antonio district. This is a new location and I did not learn much about it, but will give you a description of it soon. They have a number of fine ledges and there are now about two hundred men in thedistrict. I stopped at the town of Clinton with Mr. Ellery, our old acquaintance, the gentlemanly superintendent of the Antiquarian, Comstock and Ellery Company's mines, and had a fine time. I think the Ellery and Antiquarian Companies have the best thing I saw during my tour.

[Extracts from a second letter.]

THE WINTER AT REESE RIVER.

As you have not been here at this time of the year, I suppose you would like to know something about our winter season and how much snow we have to shovel before getting out of our cabins. So far we have seen but little snow, and the Winter has been pleasant the greater part of the time; indeed I doubt if you could improve it any by exchanging your climate at the Bay with theone we have here. It is true that there are sudden changes in the atmosphere of this region, and sometimes they are rather peculiar, not to say eccentric. Some mornings the sun will be seen rising up from the east, over the hills and mountains in all its glory and splendor, and as you take a look at Nature you will come to the conclusion that there is a bright and beautiful day in prospect; but about ten o'clock, perhaps you will observe great black clouds looming up, which you set down at once as the barbinger of some terrible storm, and by noon those clouds will be over our heads and for two or three hours it will hail, snow, and blow a hurricane; then suddenly, as if by magic, the storm ceases, the clouds break away, and the sun is seen shining as bright and clear as though there had been nothing to ruffle the face of Nature. Such has been the weather that we have had so far, though it is as shifting as the changes of the moon and about as regular. Still we could not wish for anything better, and we are all so well satisfied, that we choose to rough it out until Spring, instead of going to California.

IMPROVEMENTS.

You know that I have not been out in this section

since last July, and can imagine that I was much surprised at the improvements that have been made since that time. Clinton is a very well laid out town, and in a few years I think it will be one of the most prominent around here. To say nothing of the extensive mines around it, it has natural advantages which can not be found at any other place in this part of the Territory. It is located upon a very level piece of ground, and requires but very little grading for buildings or for streets. It will be not only a desirable place for residences, but also a good location for business; as it is central to the other districts, and only a few miles from the great overland road. There is a good road to Austin, and in the Spring they intend having a road to connect with the overlandline. Water and wood is plenty; the water being as good as any in the mountains of California.

THE MINES.

I did not have much chance toex amine the mines. They have run quite a tunnel into the Antiquarian and have already taken out some good rock. I examined the Chieftain as well as I could, and as I looked at the huge croppings of this ledge, which seemed to tower above all the rest, I felt as though I should like to walk right up to it and open the door of what I am confident wi l prove to be as good as another Aladdin's Palace. The boys are taking things easy now, but will soon be ready to open the spring campaign. They know very well what they have got hold of, and are not in the least worried about the excitement in other districts. I hope that the rest of the boys will he up from the Bay soon, so as to have a hand in taking out some of the good things. I intend going over again in a short time and perhaps then I shall have a better opportunity to observe what is to be seen. Wages here are generally four dollars a day and board. B.

SANITARY REMARKS.

FEVER.—What is fever? Simply a process of purification. Fevers are not intrinsically dangerous. Nearly all the danger results from the erroneous manner in which they are ordinarily medicated. The terrible typhus or typhoid fever, of which so many people are said to be dying continually, is not in itself dangerous. No person can have a fever, unless there are obstructions in his system which ought to be removed; and the fever is the attempt to remove them. So far, therefore, it is dangerous not to have a fever, provided the causes exist. There may be circumstances or complications which w ll render the remedial struggle unsuccessful; but the disease is a remedial effort nevertheless. No one should allow himself to be stimulated in a fever.

A fever is a process of purification; it should be neither subdued nor suppressed. It should be rather aided, assisted and regulated. A fever is not a *substance* but an *action*—a disturbance. It is not an enemy, but rather a friendly defender—a something to be directed rather than destroyed. We sometimes hear that a person has had an "attack" of fever. The expression is absurd.

SAVE THE INNOCENTS.—Starchy food for infants, such as arrow-root, sago, tapioca, corn-starch, etc., is commonly held to be not only very digestible, but highly nutritious; and yet it is a very common experience with medical men to find children so fed to be feeble, sickly and poorly nourished. Professor Rolleston of Oxford, has shown the reason of this, and in an interesting paper recently read by him before the British Association, has demonstrated, by the record of a series of experiments, that the digestive organs of infants are powerless to convert and digest starch in any degree whatever. The practical value of this important discovery is immense. Children are daily being starved to death, while apparently abundantly fed, through the ignorance of this fact; the only real nourishment received by them being the sugar, milk, eggs, etc., which are combined with their arrowroot diet.

COLDS—HOW CAUSED AND HOW TO BE AVOIDED.—Winter is especially the season for *colds*. Most people entertain the idea that colds are a necessary accompaniment of cold weather, but such is not the fact. A great many more *colds* are brought on by exposure to the heated and vitiated air of warm, close rooms, than by exposure to cold, and, perhaps, a still greater number, are induced by exposure to small currents of cold air in rooms that might otherwise be comfortable and healthful.

Persons who are habitually exposed to cold, in the open air all day, or nearly so, are very seldom troubled with *colds;* it is only those whose skin is feeble from a continued and intimate connection with warm, stifling, enervating air, and whose cuticle is almost or entirely unacquainted with water, soap, and towels, who live in daily fear of this unpleasant condition—not to say disease. Apartments which are not ventilated in the best manner, by means of warmed air, or a large open fire-place, should be frequently aired. The best way to do this, and which will occasion the least possible danger of being affected by streams of cold air, is to open, occasionally, a large window, or door, and give the room a full and perfect airing at once. This process should be frequently repeated during the day. This plan is especially adapted to school-rooms and shops, where a great number of persons are present during the day.

IMPORTANCE OF LIGHT.—A tadpole confined in darkness would never become a frog; and an infant being deprived of heaven's free light will only grow into a shapeless idiot, instead of a responsible and beautiful being. Hence, in the deep, dark gorges and ravines of Swiss Valais, where the direct sunshine never reaches, the hideous prevalence of idiocy startles the traveler. There is in all places a marked difference in the healthiness of houses according to their aspect with regard to the sun, and those are decidedly the healthiest, other things being equal, in which all the rooms are, during some parts of the day, fully exposed to the light.

EPIDEMICS attack inhabitants on the shady side of the street and exempt those on the other side, and even in epidemics, such as ague, the morbid influence is often partial in its labors.

STOP COUGHING.—Slight irritation of the throat may be relieved by sipping a little thick slippery elm tea, or by sucking a piece of gum arabic. These articles coat over the mucous membrane, and prevent the irritation of the air. A few drops of paregoric held in the mouth, and allowed to trickle down the throat, will allay coughing.

GERANIUM LEAVES are an excellent application for cuts, where the skin is rubbed off, and other wounds of that kind. One or two leaves must be bruised, and applied on linen to the part, and the wound will become cicatrized in a very short time.

TAKE CARE OF THE SKIN.—Most animals have numerous little oil glands, of microscopic dimensions, deeply imbedded in the skins. These glands, or oil-bags, are constantly throwing out small quantities of oil. This oil must be frequently worked off or it engenders disease. In addition to these glands, the skin is pierced with innumerable little openings called pores. It is through these pores that, during violent exercise, accumulated perspiration, or "sweat," escapes. There is at all times, what is called "insensible perspiration" escaping through them, in the shape of a thick mist or fog. This may be proven by holding a bright mirror close to any portion of the body, when the perspiration will immediately become condensed upon its surface. Or if we sit when the sun shines across us upon a wall, we can see the shadow of this mist on the wall as it ascends from us.

If this perspiration is checked for any considerable time, mischief in the form of colds, fevers, rheumatisms, and consumptions may ensue. Great mischief may also follow, if this perspiration is checked by neglect of cleanliness. The better we understand this part of the human system, the more we shall realize how important it is that we should employ daily ablutions. And yet how many there are, who hardly wash at all, except perhaps their faces and hands! Such persons are scarcely fit to be entrusted with a habitation so fearfully and wonderfully made as is the human body. In truth, they are not usually so long entrusted to it as others. The Great Architect usually turns them out many years earlier than he would, if they took care of it; and in the case of malignant fever, sometimes thrusts them out with apparent, though deserved violence.

[The above facts are condensed chiefly from the *Herald of Health*. We shall continue this chapter, from time to time, as space in our columns may present. Our aim is to make the PRESS useful in every department of human knowledge.]

[Written for the Mining and Scientific Press.]

Hints to Prospectors.

BY J. H. CHURCHILL, A. M.

[CONTINUED FROM PAGE EIGHT.]

IV. The net value of the ore, i. e., its yield less its own cost of mining, raising and selling, relatively to the surplus yield of similar ores. The determination of the ore must depend on the mode of sampling in all cases where long work has not supplied data for a correct average. Dishonesty in the selection of ore is more dangerous and almost as easy on a working scale as with a pocket specimen—it is no novelty. The cost of mining, i. e. underground labor, in the tin, lead, and copper mines of England may be estimated as between .4 and .5 of the total cost of the ores when rendered marketable. The tin involve the lowest proportion, partly in consequence of the additional labor in dressing them at the surface.

The cost of renching a given depth in a mine, will be considerably less by means of an incline than by a shaft—it is estimated as being quite as cheap for raising ore, it is more convenient for the ascent of the hands, it prospects more ground, and it must be borne in mind that an incline can be laid out within the lode, if wide enough, along its length where the dip is too great for it to follow the latter. On the other hand, where the lode is only wide enough for a gallery, an incline cannot he enlarged with the same proportion of cost, and it entails extra expense for pipes where pumps are necessary.

Some provision for removing water at low depths must he estimated for. The quantity of water will, in some cases, depend on the rainfall or snow. In Cornwall it varies from 10,000 ot 20,000 gallons per minute. The average cost is between two and three cents per 1000 gallons for every 100 fathoms of lift.

The average yield of the ores, when cleared from veinstone and clay, forms the criterion in Europe, and as our methods of working become economical we shall approach this standard:

Silver Ores:—	Average in five tons.	
Of Jonchimsthal	200 to 300 lbs.	[A]
Of Zacatecas	50 lbs.	[B]
Other Mexican ores	25 lbs.	
Of Audreasbero	36 lbs.	
Near Clausthal	10 lbs.	
At Freiburg, (concentrated,)	42 lbs.	
Minimum	5 to 1 lbs.	[C]
In South Wales	10 to 15 lbs.	[D]

Lead Ores.—Of Germany: from 35 per cent. at Frieburg up to an average of 68 to 72 per cent. at Blerburg. In North Wales: concentrated ores from 70 to 78 per cent—the loss in smelting nearly 10 per cent.

Copper Ores.—In Cornwall average from 7 to 8 per cent.

Tin Ores.—In Cornwall 0.9 per cent, which are concentrated to 60-70 per cent.

[A.] Very impure ores, worked by precipitation, at a saving of two-fifth of the cost of smelting. The loss less than 10 per cent.
[B.] Stephanite and bromide of silver.
[C.] The poorest ores worked also for copper and lead.
[D.] Argentiferous lead smelted with a loss of 24 per cent. of silver.

[To be continued.]

WHO IS OLD.—A wise man never will rust out. As long as he can move and breathe he will do something for himself, his neighbor, or for posterity. Almost to the last hour of his life, Wellington was at work. So were Newton, Bacon, Milton and Franklin. The vigor of their lives never decayed. No rust marred their spirits. It is a foolish idea to suppose we must lie down and die because we are old—who is old? Not the man of energy, not the day laborer in science, art or benevolence, but he only who suffers his energies to waste time, and the springs of life to become motionless, on whose hands the hours drag heavily; to whom all things wear the garb of glory.

DISCRETION.—There are more shining qualities in minds of men, but there is none so useful as discretion; it is this, indeed, which gives a value to all the rest, which sets them at work in their proper times and places, and turns them to the advantage of the persons who possesses them. Without it, learning is pedantry, and wit is impertinence; virtue itself looks like weakness; the best parts only qualify a man to be more sprightly in errors, and active to his own prejudice.

Summary of Mining News.

GLEANED FROM VARIOUS SOURCES.

Placer County.—Encouraging reports continue to reach us from the neighborhood of Placerville. The Harmon Company is said to be doing well, while the mine is rapidly developing into a valuable property. A shaft is being sunk in the tunnel which will soon demonstrate what kind of rock this ledge is composed of. A correspondent of the *Alta* writes that a corps of men, with hand mortars, make a one per cent. per month dividend with the rock in sight.

The New York Mining Company, which is chiefly composed of San Franciscans, have now one of the best mills in the State which runs like "clock work." The company have spared no needed expense upon it. Their ledge is not yet fairly opened, but they are vigorously driving a tunnel to strike the vein; in the mean time there is a sufficiency of rock out to keep the mill running. The mine is under the superintendence of W. T. Henson, Esq., an experienced and practical man.

The Hinchman is attracting considerable attention at the present time. They have about two hundred tons of rock ready for crushing. Their building is all ready for their machinery, which is probably on the ground by this time. The location of this mine is about six miles from Placerville.

Sierra County.—It is said that from $150,000 to $200,000 will be taken out from the mines of St. Louis, Pine Grove, and Howland Flat, the present winter and coming spring. The Hiberuia Co. will clean up $40,000 from the dirt they have ready to wash. The Union Company, at Wet Ravine, have just taken out one ton of rock, which, it is estimated, will yield $15,000. The *Democrat*, says that the new mill, belonging to the San Francisco company, at Nebraska, started up last week for the first time. As the ledge is one of the best in the State no doubts are entertained of its success We gather the following from the *Messenger*: The St. Louis, company at Howland Flat, have commenced drifting again, having washed up all the dirt they had out, which paid handsomely. The French Co., on the Middle Yuba, near Minnesota, have struck a pocket from which they estimate a yield of about $75,000 bullion in gold. The Golden Gate, Monte Cristo and Erie companies at Port Wine are also doing a good business. We are told that the Monte Cristo company are cleaning up $3,000 per week. The Union company have taken out about $5,000 worth of very good rock, with plenty more in sight. Adjoining is the Fac-simile company, which is incorporated; they have a very rich ledge, and are now taking out rock that will pay one thousand dollars per ton. The Sierra Nevada company, also incorporated, is said to be good, and others too numerous to mention.—The Red Star company, (gravel diggings,) are making eight dollars a day to the hand. At Smiths Flat the hydraulic claims are paying well. At Chips' Flat the Rainbow Quartz Mill is being repaired, preparatory to crushing some good rock which they are now getting out. The Lone Star company at Pine Grove, made a big clean up lately, which made the boy's feel as though they could afford to make another run on the bank. The Potosi company, at Pittsburg, are making a good thing this winter; they are declaring a dividend of one thousand dollars a share per month. This is one among the many of the rich claims, in that quarter. The Junction Quartz Co., at Mount Vernon, according to the *Democrat*, has been quietly but diligently, for the past two months, prospecting their mine by means of a tunnel, are now nearly 100 feet beneath the surface, where paying ore equal in richness to any heretofore discovered is found in quantities to warrant the construction of machinery for crushing, which will be consumated at an early day. The ledge is now from 6 to 10 feet wide, and shows good indications of growing stronger the deeper penetrated.—Sierra will hold her own with any county in the State in respect to rich diggings.

Brown's Valley, Yuba county, still continues to attract much attention. The town is improving, new buildings are going up, and the population increasing every day. The new mill of the Jefferson company has been started again. Mr. Snyder is superintending the mills in person, Mr. Harrison having retired.

The Monterey Mines.—Advices from the Soberana, Maria and Buenaventura mines in the San Antonio District are very flattering indeed. Very rich ore is now being taken out by the operators, who are steadfastly pursuing their labors. According to the Monterey *Gazette*, there is no doubt of the exceeding richness and great extent of these mines, and their steady development will very soon demonstrate the fact.

Reese River.—We would call the especial attention of our readers to the extracts from Reese River letters found on another page. Favorable reports still reach us from this locality. The *Reveille* has seen a good sized silver brick obtained from the rocks from the Warner & Wells, a ledge on Lander Hill, discovered a few weeks since. The brick weighed 512 ounces, and was worth $719 96, all the yield of 2,160 pounds of rock. A ledge that yields so well within a few feet of the surface, must promise rich returns at a greater depth.

The *Reveille* states that fifty dollars has been offered and refused, for a rich specimen of silver ore recently brought in from Union district. It would be a magnificent ornament for any cabinet of minerals.

A Reese River mining decision was recently rendered by Judge Lake at Carson City, in the case of the Mills & Post vs. the Black Swan. The Mills & Post applied for an injunction on the ground that the Black Swan is a parallel ledge lying within a hundred feet of the Mills & Post ledge. The mining laws of the district allow each company that number of feet on each side of their claim. The Judge denied the motion, holding that the breadth was for working purposes, and not for discovery. Most of the mining laws of the various districts both in that Territory and in this State contain similar provisions, and to which this decision is not inapplicable.

The Young American ledge, at Yankee Blade, prospects so well that the company are going to incorporate. According to the *Reveille*, the mines in Austin district, as well as the mills are contantly at work. A prospect from a few pounds of rock from the Batburst ledge yielded $4 47 in silver. An assay from the Sedgwick yielded at the rate of over $3000 to the ton. Fifty pounds of top rock from the Tippecanoe ledge yielded at the rate of $75 80 to the ton.

The Whitlach ledge was located last Spring, and contains 600 feet. It paid well at the surface and improves as they go down. A shaft has been sunk fifty feet and a drift run north and south. The ledge is eight feet wide and looks "magnificent." Over 100 tons of rock is piled up at the mouth of the shaft, from which ten tons of very superior looking ore has been selected. This latter will soon be crushed. The Union No. 2 is the first extension.

The Oregon continues to work admirably. It is engaged upon rock from the North Star ledge. Work is being vigorously prosecuted upon the Lighthouse ledge. The rock is hard and much blasting is required. It is improving. The Indus tunnel is in about 100 feet—whole length, prodoseds about 1000 feet. It is progressing rapidly.

Work upon the Amador is progressing with much energy under the superintendence of Mr. Bennett. Two tunnels are being run into the company's ground. The company claims three principal parallel ledges, upon each of which three shifts are employed. An incline is being run on the main, or Amador ledge, which will connect with the tunnel for ventilation, etc. Rich developments are confidently anticipated when the workmen reach any considerable depth.

The *Reveille* of January 9th, says that Mr. T. J. Barnes has just returned from an extended tour through the Smoky Valley region, and reports many new and most important discoveries, consisting of extensive mining and timber lands, with valuable water privileges, etc. In this connection we would again call the attention of our readers to the letters from this region elsewhere published.

Humboldt—We have but little of special interest from Humboldt this week. Notwithstanding the region of country now comprised in what may properly be called the Humboldt district, already covers an area more than twice as large as the entire State of Massachusetts, new discoveries are still being made, and new districts added from time to time. The Humboldt ledges are generally wide on the surface and unless they prospect well they are not considered worth prosecuting. The greatest draw back to the development of the Humboldt mines heretofore has been a want of capital and an imperfect system of mining laws. Another season, it is confidently expected, will bring out most satisfactory and important developments for this interesting mining region.

Virginia City and Vicinity.—The important developments recently made in the Lady Bryan, seems to have given a new impetus to mining operations in that vicinity. Rock richer than ever, it is said is now being taken out from that portion of the mine where the late strike was made. Of course little is known about the extent of the deposit, but there is certainly a large amount of good ore in this part of the lead. They have also struck very promising ore in the main shaft, now 180 feet deep, being about 80 feet lower on the vein, and a considerable further east than where the ore was first found. The prospects of the company are now certainly exceedingly flattering. These developments, says the *Enterprise*, are cheering to all, whether miners, merchants, or mechanics. We clip from the Virginia and Gold Hill papers, the following items with regard to some of the progressive mines in that region. The Hearlem company is doing a large amount of work, and have struck some very rich looking rock. They have a shaft 150 feet deep and a tunnel 500 feet long.

Ore of a good quality has been struck in the Indiana claim, on the Eliza Waldo lead. This success is a very encouraging fact to several other companies in that vicinity.

The Crown Point tunnel is now in 800 feet, but the lead which is at present attracting much attention, was struck and passed by without proper examination, at 600 feet. The company, since, learning its value, have commenced drifting upon it, and will soon commence working from this drift. The lead is about 30 feet thick, carrying scattered patches of sulphurets; it is very much decomposed and easily worked. Mr. D. Lachmeu is Superintendent, The Justis has just had its first crushing of 100 tons which resulted in a yield of $55 to the ton. They are down about 100 feet on the vein.

The Tri-Union. first located in '59 as the Cherokee, changed to its present designation in 1862. After a long cessation of work, the company has now recommenced with most encouraging prospects of success. The lead is located in the immediate vicinity of the Lady Bryan, is about 12 feet wide and well defined. This is one of the many results of the renewed activity which has been caused by late success of the "Lady."

The Gold Cañon Consolidated, is just now attracting considerable attention. It is one of the oldest claims in Gold Hill district, having been located in '59. Its past lack of success is attributed to bad management. A change in that respect has recently been made and the work of development is now being energetically prosecuted with encouraging indications.

The Midas has just produced its first "brick" from 2,100 lbs of rock, almost exactly equally divided in value between silver and gold, and weighing 25 ounces, worth a little over $50. It is a segregation from the Belcher.

The Clinton and Watts Co., are sinking a new shaft upon their lead which is now about 8 feet thick and of promising appearance. It is located just north of the Justis ground.

The Homestead claim consists of only 200 feet, on which a shaft has been sunk to the depth of 102 feet with a drift 150 feet long, developing a well defined ledge 15 feet wide.

The Knickerbocker claim lies immediately west of the Baltimore American, and in line with the Uncle Sam. A tunnel having been run a distance of 100 feet, without any important development, the old proprietors became discouraged and the ground finally passed into the hands of a new company which has re-commenced work. The new proprietors feel very confident that they are on the same lead with the Uncle Sam, and other rich claims in that line. The rock already taken out looks very promising, and gives a handsome prospect in gold, on being pounded up and washed in a pan.

The Monitor claim is a comparatively new location, upon which work has been commenced with encouraging prospects. It is located in Crown Point ravine.

Late developments are making it very plain that there are good mines to be found outside of the regular Comstock lead.

Bullion from Nevada.—The total amount of treasure shipped to California, during the past year, from Nevada Territory, as obtained from the books of Wells, Fargo & Co., foots up at $11,043,455, this does not include the shipments from Reese River or Humboldt. Wells, Fargo & Co's. agents express the opinion, founded on the late rapidly increasing rates of shipments, that the yield of the Territory for another year will not be less than $23,000,000, and may reach $30,000,000.

The monthly shipments from Esmeralda, which are included in the above is given in the Aurora *Times*, upon the authority of Wells, Fargo & Co., as follows :—

January	$12,626
February	12,798
March	15,597
April	30,385
May	33,397
June	33,037
July	48,000
August	69,758
September	30,328
October	104,519
November	122,874
December	92,346
Total	$625,151

This exhibit, all things considered, speaks well for the mines of that region. It is safe to set down Esmeralda as good for $2,000,000 the present year.

The splendid new Engine of the Del Norte Mill, which was fully described in our columns some three months since has had a trial start, and, according to the Aurora *Times* "worked beautifully."

The Davenport Company has taken out some rich rock.

The *Times* has seen some fine looking rock from the Cortez claim which looks as if it would pay $100 to the ton.

The Monroe & Fletcher Tunnel, and Alturas, are both thought to be valuable claims, with good prospects. Work is progressing finely on the Haulet and Wonder tunnels. The Enterprise, Pennsylvania, and Unadilla Companies, penetrating Last Chance, are pushing along vigorously. They have already cut through several rich ledges, and will no doubt strike other and richer ones before getting in much further.

Antelope Mill.—This large and beautiful structure will soon be completed. The Antelope mill resembles the Del Monte very much. It runs ten stamps less. The splendid machinery for both mills was furnished by the Miner's Foundry, of this city.

Last Chance.—Operations continue with unabated vigor in this famous mining locality. According to the *Times*, the Pond, Moseow, Jennie Johnson, Crockett, Wide West and many other claims are taking out as fine looking rock as one would wish to see.

Difference of Assay.—A very marked difference exists in the fineness of the bullion taken from claims, on the Comstock lead in Virginia City.—That taken out from the mines north of Gold Hill, assay about 20 parts of gold in 1,000 ; while the bullion from near the hill itself and from below, generally runs as high as 125 parts of gold to 1,000 ; or 125 gold and 875 silver.

Another Extensive Salt Bed Discovered in Nevada Territory.—The Virginia City *Union* of January 7th says :

"Mr. Gartrell, of this city, informs us of a most important discovery—one of which is worth millions of money and of incalculable value to the silver mining interests of this Territory. It is no less than the discovery, near Sand Springs, on the overland wagon road, of a salt bed five miles square. About 30 owners altogether, have located the whole basin in which the salt is found. This basin appears to have once been the bottom of a lake, and the salt is found good even on the surface. A covering of about three inches is loose and indifferent; but beneath this, for a depth of fourteen feet, pure rock salt is found as clear as ice and as white 'as the driven snow.' Beneath there is water, which seems to be filtered through salt for an unknown depth. The whole of this fourteen feet in thickness does not contain a single streak of any deleterious matter or rubbish, and is ready for quarrying and sending to market. Great blocks of the pure stuff can be raised the same as if it were ice or stone; on exposure, however, it crumbles sufficient to admit of being closely packed in sacks or wagon boxes. Once loose salt on top is removed, one man can quarry and wheel out five tons each day, ready for mill use or to offer on sale in the store. This salt is so convenient to get at, and so near the great overland road, that the proprietors are confident they can sell it in this market at 5 to 6 cents the pound, or half the present price of the article. Mill men will rejoice at this fact, as some 300 tons are required for the mills in this and adjacent counties.

The Colorado River Mines.—Recent arrivals from the Colorado river mining country, all furnish corroborating testimony of the great extent and richness of these mines. The river is unusually low, and navigation almost or entirely suspended ; provisions scarce and dear in the mines at La Paz. In some instances, work has been suspended on account of the scarcity of food. The El Dorado Cañon and the Chimawawa Districts are furnishing more flattering indications.

In this connection we would call the especial attention of our readers to an interesting communication with regard to these mines. The article is from a very intelligent gentleman, who has recently returned from that portion of the State, and has promised us further information from the same quarter.

Lower California.—From the Peninsula of Lower California we learn that work on the Triunfo mine is being prosecuted with vigor. The main tunnel has been run a distance of 450 feet, cutting the Carmen vein at a distance of 330 feet, and intersecting the old working shaft, (from which their rich ore has been taken,) at 400 feet. A shaft has been commenced in the tunnel and the vein has widened from four to seven feet. Fifty tons of ore are ready for crushing, an average assay of which yielded $1,200 to the ton. Their mill (ten stamp) is nearly completed, and will be in working order on the first of February. Negotiations are now pending for the shipment of ores to Frieburg, as the capacity of the company's mill is not sufficient for the reductions of ores.

No delinquent assessment has ever been advertised by this company, a fact which speaks most encouragingly for the confidence with which stockholders regard their interest in this mine.

Quicksilver Discovery.—The Mariposa *Free Press* says : "A new and valuable discovery of a cinnabar vein was made near Sherlock's and Mullen's gulch. Considerable excitement exists and numerous "feet" have been taken up. If it turns out equal to the representations made, it will give a fresh start to a region of country favorably known in the days of rich diggings, but latterly supposed to be about "played out."

Notice to Quit.—The Potosi company at Virginia City, has given notice to all the house and land owners on B, C and D streets, beginning at the junction and extending several blocks northerly, to clear out, as they claim the ground. The property owners have allied for mutual protection, and employed Tod Robinson to defend them.

Owen's River Express.—Messrs DeKay and Hutchinson have just completed their arrangements for running an express between Aurora and Bead City, and all intermediate points, carrying and delivering promptly, letters, packages and parcels.

A Dual System.—The opinion appears to be taking root in Virginia city, since the late remarkable developments in the Lady Bryan mine, that they have a double system of mines in that region, made up of the Comstock on the one side, and the Lady Bryan on the opposite side of the city. Both are mammoth ledges, the latter fully as heavy or heavier than the former. Lady Bryan is located about three miles East of the Comstock, and certainly presents at the present time, every indication of being developed into a most valuable mine. Its consort and Northern extension, the Desert, is already attracting considerable attention, and arrangements are being made to have it thoroughly opened. Further developments in this direction will be looked for with much interest as well as curiosity.

Exchanges.—We have welcomed upon our table, during the past week, quite a number of new acquaintances in the shape of newspaper exchanges. No other State in the Union, of the population of California, boasts of an equally large, handsome and healthy appearing list of newspapers. To our neighbors who have spoken highly of our enterprise, we return our best compliments, and we will next week give our readers the benefit of some of their liberally expressed opinions.

Treasure Receipts from 1861 to 1864.—The following is a careful statement of treasure receipts in San Francisco during the past three years :

	Uncoined.	Coined.	Total.
From the Northern Mines, 1861....	$28,621,687	$3,701,076	$32,325,863
From the Northern Mines, 1862....	30,948,369	3,436,728	34,385,097
From the Northern Mines. 1863....	33,936,771	3,978,624	37,915,395
From the Southern Mines, 1861....	7,257,545	2,105,669	9,363,214
From the Southern Mines, 1862....	6,601,509	1,553,193	8,154,702
From the Southern Mines, 1863....	5,610,094	1,801,837	7,411,981
Coastwise receipts, 1863.....	4,366,510	603,513	4,970,023

Not to be Disturbed.—Gen. Wright authorizes incorporated mining companies to continue work on their mines on Santa Catalina Island until further orders relative to its occupation are received from Washington. Valuable discoveries of rich silver and lead ore have been made on this island, which is situated about twenty miles off the coast from San Pedro. The locality of these mines is said to be easy of access, so that vessels can readily load and take the ore thence at a merely nominal price for freight.

Improved Baling Press.—D. L Miller, of Madison, N. J., is the inventor of what appears to be an important improvement in Baling Presses. Improvements in this direction are quite important in preparing certain articles of merchandise for market, as hay, moss, hops, pulu, etc. The inventor claims that it has been satisfactorily tested.

The New Opposition Steamer, the "America," is advertised to take her place in the line. She will leave Mission street wharf, in this city, on the 3d of February next. See advertisement in another column.

The Citizens of San Jose are to hold a grand jubilee to-day over the completion of the Railroad to their city. A train of excursionists leaves San Francisco this morning to participate in the happy occasion.

"Masonic Temple March," is the title of a handsomely printed piece of sheet music published by Wm. P. Harrison, of this city.

The Sierra Nevada, which left this port for ports in Mexico, on Monday last, took away $12,523 in treasure and $94,571 in merchandise.

The Pacific, from the north, brought down $100,000 in treasure from Portland and $25,000, from Victoria.

Treasure by the Orizaba.—The Orizaba, which left this babor on Wednesday last, took away 80 passengers, and the sum of $1,140,087 67 in treasure.

The California Wine, Wool and Stock Journal, for January, is filled with interesting contents for farmers and stock growers.

Miscellaneous Information.

Gunpowder.—The amount of gunpowder imported into California in 1862, was 36,860 kegs and 10,807 cases, in 1863, 38,084 kegs and 2,829 cases. The California Powder Works Company, situated at San Lorenzo, according to the *Mercantile Gazette*, expect to begin their operations in March next, by manufacturing 200 kegs per day. At present and for a series of years past, the Hazard and Dupont Powder Companies have measurably controlled this market through their respective agents; and, during the early part of 1863, met all the demands made upon them at the uniform price of $4 50 per keg for blasting. This rate continued until September, when the agents put up their prices to $5; this latter rate continued until November, when it advanced to $6, and so continued for about 30 days, when stocks becoming exhausted, owing to the non arrival of various clipper ships with heavy supplies on board, agents were forced to restrict their sales, giving no one buyer over 5 or 10 kegs or thereabouts, at $8. At this juncture outsiders stepped in and began to feed the market at $10 and upwards, though the largest speculative holders are now asking much higher rates. The impression had long been current by many that the aforsaid agents held very large supplies, and relying upon that. dealers and others neglected to order supplies from the East; consequently we Californians are left without needed supplies of this important article for the use of our extensive mining and other enterprises requiring large quantities of blasting powder. All interests of this nature are checked or stopped for the want of needed supplies. This state of things must continue until the Undaunted and others arrive, in the spring, when we are promised full supplies; and which, the agents before referred to say it is not their fault—being well posted as to the increasing consumptive wants of the country, and proper representations made to their manufacturing principals at the East—but is chargable to Government wants at home for the prosecution of the civil war now being carried on and to Government interfereuce with shipments California bouud. Besides, none but the best brands and best quality of Powder will staud a voyage around the Horn.

Coal.—Various fluctuations in the price of coal have occurred in this market during the past year, owing chiefly to the large demand for Government purposes, causing high prices at the East, and to high freights. The average price of Anthracite says the S. F. *M. Gazette* was about $19 per ton. The extremes of the market being $13 in April and $27 in December, the year closing at about $24. Cumberland in bulk has been in large supply, and sold at $25 per ton, ex-Deacon. In casks the price has ruled from $26 in March up to $35@40 in September, then declining and closing at about $26 per ton. Sydney sold in the spring and early summer at $10 @11; in August, September, October and November at $12@13 50; in December, a single cargo arriving here upon a hare market was promptly sold at $20@22 for the bulk, closing out at $18, and at this writing we quote cargo sales at 15 50 per ton. West Hartley coal in June sold at $16 50. A cargo in Bymbo sold in August at $16 per ton, and since the beginning of the present year (1864) a large cargo sale of Liverpool, ex Enoch Train, is reported at $17. The California supply, chiefly from the Mount Diablo mines, has been constantly on the increase—not less than 37,000 tons were produced at these mines in 1863. This large yield tended greatly to check the price of all other coals, both hard and soft. The monthly consumption of Mount Diablo the last three months of the year is estimated at 6,000 tons per month. It is used chiefly for steamboats in the interior waters and for mill purposes. The average price of this description during the year has been $9 35 per ton. The Bellingham Bay mines have marketed over 9,000 tons during 1863; and now furnish increased supplies chiefly for city trade. Their product the ensuing year is estimated by the proprietors at 2,000 tons per month. This coal is now selling at $15. The Nanaimo mines at Vancouver Island furnish fair supplies for steam purposes, which will doubtless be increased the present year. Stocks of all kinds are light. The cargo of Sydney coal referred to recently, was closed out at $15 50. We record sales of 2,300 tons Liverpool at $17; 500 tons Sydney at $15 50; 800 tons Bellingham Bay at $15.

A solution of caustic, soda and sulphur, poured nto a lead pipe, and left there for fifteen minutes, iconverts the interior surface of the pipe into an insoluble sulphide, rendering the contamination of water by the lead impossiple.

A California-Made Cotton Press.—Those who chanced last week to pass along Fremont street, near Mission, must have noticed a large frame structure which has recently been erected on a vacant lot on the first-named street. The structure is a Cotton Press—the first ever manufactured on the Pacific coast. It was shipped on the steamer Sierra Nevada, on Monday last, for Mazatlan, and is to be put up on a plantation near that city. This machine is described as follows in the local column of the *Alta:* 'It is to be worked by horses or mules, and is said to have power to compress at one operation cotton into bales in shipping order for foreign markets. It is known as McComb's Patent Cotton Press, and for simplicity of machinery and speed of working, is said to be unrivalled, while its power is only equalled or surpassed by hydraulic pressure. The compressing power is applied from a capstan by a 4-fold rope purchase to a double or jointed lever on each side of the press. These jointed or double levers resemble a man's arm, the shoulder parts being secured to sockets in each side of the frame of the press, while the wrist portions meet in a socket or journal under the bottom press block, the pressure being upward. The 4-fold purchase is applied to large iron sheaves, which are fastened upon a small shaft, which runs through the casting forming the elbow joint. The lever when not used looks like one's arm half crooked, and when the total force is applied becomes almost straight. One great merit claimed for this press besides its power over any other is the speed with which it can be worked, it being capable of compressing 40 bales of cotton per day, when worked on a plantation, from loose cotton."

Climatology, Etc.—Dr. T. M. Logan, in making his report of Climatology, etc., of Sacramento for December last, remarks as follows under the head of "thermometrograph:" A remarkable steady and high range of the barometer, has accompanied the fine weather experienced during the month—unsurpassed by that of any past December of our register. Just rain enough fell to prepare the earth for agricultural purposes, without any of the vicissitudes of heat and cold which usually attend the storms of this season. The heaviest fall of rain occurred on the 23d, which measured more than two thirds of an inch. But little effect, however, was produced upon the river, which varied in hight during the month from about three to four feet above zero.

Under the head of "Necrology" he adds: The influenza continues to show its effect upon those of feeble constitutions and laboring under chronic affections, especially of the lungs. Our mortality table exceeds that of the corresponding month last year to the number of twenty. The diminished ratio of deaths among children, observable last month as well as this, is, however, worthy of special remark, and affords some compensation for the increased mortality among adults.

The rain, of the present season, to Jan. 1st, according to the Doctor's record, is: November, 1.490 inches; December, 1.815 inches; total, 3.305 inches. The last rains have rendered all kinds of land in the vicinity of Sacramento susceptible of being plowed with ease.

A New Ferry Boat called the *Cheshire*, has commenced plying on the Mersey, between Liverpool and Birkenhead. She is constructed on the American plan, has a rudder at each end. and the stearsman is placed in a small round house on the upper deck. She easily accommodates 2,000 passengerf.

A Steel Cannon of the same calibre is about one-third lighter than a brass gun. The artillery force of Russia is adopting the former into the service, by reason of this important advantage of lightness and facility of transportation.

Taxes.—Dispatches from Washington state that the tax on whisky will be increased to 70 cents; that on tobacco and petroleum doubled. Licenses will be increased considerably. On banks, insurance companies, and mercantile ageucies, $100 each; on boarding houses, $10 or $20, according to rental. On draymen and handcartmen, three dollars each. On several other articles the tax will also be considerably increasod.

California and her Destiny.—The new State of California has already become "the pride of the Nation." Its rapid growth and development have been alike a matter of wonder and astonishment to the whole world. The London *Times*, through a correspondent, says:

"California may be reported with confidence to be in a most thriving condition. Industry of every kind is active, manufactures growing, land raising in value, agriculture improving, mineral wealth continually augmenting by the development of the Washoe silver mines and the increased workings of the older gold, quartz mines, while the general wealth of the country is fast accumulating. No country is more prosperous."

The mineral wealth of California is beyond human computation. When all the vast territory of that golden empire of the Pacific shall be peopled and its marvelous resources developed, it will from its very position, we predict, stand and flourish as the great commercial and financial centre of the nation. San Francisco will then rival New York in population, in wealth, in trade, and in power. To us this seems an inevitable, foreseen fact. All that California now asks is railroads to connect her with the East, and then she will begin her brilliant career of greatness, to astonish even herself. European rulers have for years past been watching the progress of this country with the most intense interest—bordering on fear. Hence the very particular satisfaction of John Bull at our present troubles. Now, John, in his *political* creed, hates slavery, and he hates freedom too—that sort of freedom which he knows is tropical only on American soil.

While we are finishing up the job commenced at Bunker Hill and Yorktown—having in prospect other heroic business—we wish simply to hold up to the gaze of our "non-intervention" friends, the other side of the water, the single State of California, and tell them that commonwealth alone *can* if necessary—and at no distance day—shoulder the entire burdens of this pro-slavery rebellion, leaving us in other quarters all the pecuniary strength that will be required to attend to some future holiday duty.—*N. Y. Independent.*

A Submarine Boat of colossal dimensions is now in process of construction in the harbor of Cronstadt, Russia, in which about 200 tons of iron and steel are to be used. It is rapidly progressing towards completion. Great secrecy is being used about this boat. It is known, however, that it will have engines to be worked by compressed air, to have a very strong beak, with provision for attaching large cylinders charged with powder to the bottoms of vessels, to be fired by electricity. Parties navigating the vessel will see what they are doing by means of bull's eyes, and they will be able to regulate the depth at which they swim, generally keeping quite close to the surface.

High Wages.—A correspondent of the Portland *Press*, writing from the Pennsylvania coal region, says he has seen a pay roll belonging to a small operator, showing that most of the common miners are receiving from $100 to $150 per month of 24 days, and they do not work more than six hours per day generally. Boys only twelve years of age make $25 and $30 per month at present rates.

An effort is being made in Boston to establish a line of first class steamers between that port and Liverpool. The prospect of a favorable issue to this attempt is said to be very strong.

An Army officer writes from Arizona that the mineral resources of the Rio Gila have been under estimated, that they are as rich in gold as California, and that the Government should devote itself more to the development of the mineral resources of New Mexico and Arizona.

Paper in Silver Mountain.—We learn that parties, who are practical printers, will start a newspaper in Silver Mountain as soon as they are able to get their material (which is already purchased,) into that new silver region.

Leakage of Gas Mains.—It is estimated that in the city of London one-sixth of the gas made escapes from the mains, a dead loss to the gas companies. This clearly shows the defects of the old system of joiuing mains, for it is wholly at the joints that the leak occurs.

The machinists' strike in New York continues. The employers have proposed a compromise, but the workmen refuse to accept any reduction from their original demands.

Patent Department.

COLBURN'S LAMP FILLER is one of the many useful inventions which have been brought out since the introduction of Kerosene as a burning fluid. It may be applied to every lamp now in use, at a trifling cost. It is a very neat and convenient arrangement for obviating the disagreeable necessity of unscrewing and taking off the top of the lamp to fill it. This "filler" is placed between the burner and the collar of the lamp, and consists of a hinged apparatas, by which on touching a spring, the chimney and burner is made to turn down in such a manner as to allow the nozzle of an ordinary lamp filler to be inserted into the oil chamber of the lamp, which is then readily filled. The invention has already been introduced into this city and is both neat and convenient.

PRESERVING IRON FROM CORROSION.—G. W. Holley of Niagara, N. Y., has secured letters patent for a peculiar composition for protecting iron from corrosion.

FRUIT PRESS—A CALIFORNIA INVENTION.—John Manrow, of Sacramento, has patented and improved Fruit Press, the peculiar combination and working of which we should be happy to describe if the inventor would furnish us with the data.

WOODEN PAVEMENT, by Samuel Nicholson, of Boston, Mass., originally patented, August 8, 1854. We have recently given a full description of this improved wood pavement, together with certain facts in relation to its successful introduction into several cities. We notice that a *re-issue* of this patent has recently been granted.

THE MANUFACTURE OF STEEL.—Messrs Brant & McElroy, of Pittsburg, Penn., have recently discovered and patented a process for manufacturing steel direct from pig iron, in an ordinary puddling furnace. They throw into the furnace pulverized charcoal, or other carbon, when the iron begins to granulate, and close up the furnace so as to retain the gases evolved therein, as described in their specification.

SPIRITS OF TURPENTINE.—Mr. L. S. Cole, of Burlington, Vt., has secured a patent for a new process for producing Spirits of Turpentine and other analegous oils directly from the wood, using for that purpose machinery as described in his application. A caveat for accomplishing similar results has also been recently taken out by a party resident in this State, through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. [The party in whose favor said caveat has been secured is requested to communicate with this office.]

KRUPP, the great steel manufacturer of Germany, is manufacturing cannon of immense power. They are 9-inch bore, made of cast steel, and throw a 300-pound shell of 22 inches in length, or a 450-pound shot, with a 50-pound charge.

STOVES made of soapstone have been introduced at Quebec. They are said to throw out mellower and more uniform heat than iron; the material of which they are made is very abundant in the mineral region south of the St. Lawrence.

The Mining and Scientific Press Patent Agency.

OFFICE, 57, GOVERNMENT HOUSE, SAN FRANCISCO.

Information About Obtaining Patents.

The Patent Law Amendment Act, of March 4th 1861, and March 3d 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent, And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent? A positive answer to this question is only to be had by presenting a formal application for patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the MINING AND SCIENTIFIC PRESS. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Preliminary Examinations.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search, made at the U. S. Patent Office, Washington, through the medium of our associate in that city, to ascertain whether among all the patents and models there stored, any invention can be found which is similar in character to that of the applicant. On the completion of this special search we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollars. This search, though it involves the expense just named, will usually prove satisfactory. If the same device has been before patented, the time and expense of constructing models, preparing documents, etc., will in most cases be saved; if the invention has been in part patented, the applicant will be enable to modify his claims and expectations accordingly. Many other obvious advantages attending the Preliminary Examination; although the strictest search does not always enable the applicant to know positively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publication; or some other person has been previously rejected on an analagous device; or some other invention for a similar purpose, but partially resembles the applicant's in its construction; or the Government makes an unjust or uncommon decision. Against none of these contingencies does the Preliminary Examination provide; it will, however, generally inform the applicant whether an improvement similar to his and used for the same purpose has ever been patented or not in this country.

Persons desiring the Preliminary examination are requested to remit the fee ($10), and furnish us with a sketch and description of the invention.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian, Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of governments that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues.—If the application is rejected we cause a thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have access to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client. For this service we make no charge. If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction, and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The laws requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both varnished or painted; the name of the inventor should be engraved, or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: DEWEY & Co., Mining and Scientific Press, rooms 56 and 57, Government House, corner of Sansome and Washington Streets, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail.—The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due, and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued, the applicant will be notified to remit the last installment of the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Return of Models.

Under the new law, if the applicants case has been rejected he is entitled to withdraw his model from the Patent Office.

This law applies to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expense

Application for Patents, Designs, Trade-Marks, Labells, etc.

Under the new law patents may be taken out for any new form of any article, also for tools, patterns, castings, machine-frames, stove-plates, borders, fringes, all new designs for printing, weaving or stamping upon silks, calicoes, carpets, oil-cloth, prints, paper-hangings, and other articles. Trade-marks, labels, envelopes, boxes and bottles for goods, may also be patented; likewise all works of art, including prints, paintings, busts, statues, bas-relief, or compositions in alto, or basso relievo, new dies, impressions, ornaments to be placed upon any article of manufacture, architectural work, etc.

Our facilities for the prompt preparation and securing of patents are of the most extensive character and our charges are very moderate.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the tariff of fees established by law:

On every application for a design, for 3 years and six months	$10 00
On every application for a design, for seven years	15 00
On every application for a design, for fourteen years	30 00
On every caveat	10 00
On every application for a patent	15 00
On issuing each original patent	20 00
On filing a disclaimer	10 00
On every application for a re-issue	30 00
On every additional patent granted on a re-issue	30 00
On every application for an extension	50 00
On the grant of every extension	50 00
On appeal to the Commissioner from Examiners-in-chief	20 00
On every appeal to the Judges of Circuit Court, D. C.	25 00

Infringements.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunction from the Court, to an arrest of or prohibition from the employment of his machinery, shop, works, factory and men in production of the article.

In addition to injunction the infringer is liable to be mulcted in treble the amount of damages awarded by the jury. The maker, the workman, the seller, and the purchaser, if a user, are all liable either collectively or individually.

Having access to all the patents, models, public records, drawings and other documents pertaining to the Patent Office, we are prepared to make examinations and give opinions upon all infringement questions, advise as to the scope and ground covered by patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Appeals.

In rejected and other cases, the new law provides for an appeal from the Examiner-in-chief to the Commissioner in person, on the payment of a fee of twenty dollars. A further appeal may be taken from the decision of the Commissioner to the U. S. Court, of the District of Columbia. These appeals are heard by any of the Judges before whom the applicant elects to bring the case. No Jury. All the papers, models, etc., are sent by the Commissioner to the Judge, who then reviews the case, and either sustains or reverses the Commissioner's decision.

The party taking the appeal pays an additional fee of twenty-five dollars. The Judge appoints a day of hearing. The applicant can appear in person or by counsel to state his case and file a written argument. Five days are allowed the opponent to put in an answer, and a similar period to the appelant for a closing reply.

Many important cases are brought before the Judges on appeal, and the decisions of the Commissioner are not unfrequently reversed.

We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, Government House, corner Sansome and Washington streets, San Francisco.

Patent Claims.—We will furnish, on application, the claim of any invention that has been patented within the last fourteen years. The name of the patentee, date of patent, when known, and two dollars for copying, should be sent.

Back Numbers.—We have a limited number of past volumes of the PRESS on hand, which will be sold, neatly bound, at reasonable rates. A portion of the back numbers of the paper can be had by the single copy.

Mining and Scientific Press.

W. B. EWER,.....Senior Editor.

C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

DEWEY & CO., Publishers.

Office in the Government House building, Northwest corner of Washington and Sansome streets, rooms No. 56 and 57, up stairs.

San Francisco:

Saturday Morning, January 16, 1864.

THE LOST ARTS.

We bear a great deal about "The Lost Arts," and more about the "progressiveness" of the present age; but if we carefully look back upon the past we shall find abundant evidence that there is little, at the present day, that is new upon the earth. Where shall we find the Phoidias of modern days? How eagerly, and at what immense cost do we look for the paintings of the "Ancient Masters." Although our forefathers on the English isle, until within a comparatively recent period, never knew the luxury of window glass, the ancients knew more about it, in many respects than we do at the present day. It is even thought that the early Egyptians understood the uses of the telescope, and that the Pharaohs ogled each other with an instrument similar to what we call an opera glass. At all events, in moulding and coloring glass we are yet but imitators. In the manufactory of metals, for aught that we know, Tubal Cain might have been our superior. At all events in the most essential particulars of the manufacture of swords we are far behind the ancients.—The art of tempering steel, as known to them, has long been "a lost art." In the mixing of paints and colors, who in modern times can prepare a tint that will hold its color like that found upon many relics, which date their origin centuries before the dawn of the Christian Era, or who can rival or even equal the "Tyrian dye?" The idea of the steamboat, is thought to have been not entirely unknown anterior to the foundation of Rome, certainly the steam engine was not. Five thousand years ago the Egyptian Pharaohs' constructed canals, which to this day are without rivals upon the earth; and who at the present day, would take a contract to hew out and transport, overland, granite blocks that would weigh 3000 tons each, as was done by the ancient Thebans. The man that would undertake it certainly ought to be awarded the contract of raising the *Aquila*. Stevens, in his travels, tells us that he found railroads, built thousands of years ago with iron covered grooves. Animal magnetism is no new thing under the sun, and the arts of magic, as practiced by the ancients, must certainly be classed among "the lost arts." We might thus go on and fill a column or more, but enough.

Notwithstanding all this, the present is emphatically an "age of progress." The great distinctive feature between the present and the ages of antiquity is found in the utilitarianism of modern times. Formerly, as we stated last week, all wisdom was hidden in the bosom of the Aristocracy. Thanks to the printing press, which comes nearer to a new idea than any other thing of which moderns can boast, knowledge has come to be popularized. It has been dragged from the *sanctum* of the ancient priest, and alchemist, and been spread broadcast before the people. Christianity has introduced a new religion, a religion of the heart, and consequently a religion for the people, who have been lifted up, by it, from the condition of semi-brutes, and taught to know and respect themselves and to employ knowledge for the common benefit of all, instead of allowing it to be confined to a favored few, as a power to oppress the multitude.

When the modern discovers a principle, his first effort is to turn it to some practical account. When the ancient Egyptian discovered the power of steam his only idea was to make a toy of it. The ancient alchemist sought for principles in his art, merely for the purpose of gaining a new power by which to deceive and oppress his fellows; the modern chemist prosecutes his studies to benefit his race, and add material strength and power to the people. It is the successful effort of the modern to utilitarianize the knowledge that has come down to him, which makes all the difference between him and his progenitor of 3000 years ago. It is this idea that has produced the wonderful development in material progress which we witness to-day. Coupled, with this, as already stated, we have the ennobling tendency of Christianity. The two, guided by wisdom and humanity, may yet once more advance the human race to that proud position, "a little lower than the Angels," in which the Creator placed it, in the day that he looked upon all created things and pronounced them good!

Legal Assessment Notice.—An erroneous impression seems to have obtained, in the minds of a few, that the present law of this State requiring the publication of notices of sale of mining stock to be published thirty days, signifies that such advertisements should receive 30 insertions. This would not only be contrary to justice, but plainly in contradiction of the word and intent of the Act, and the plain and simple interpretation given similar orders requiring the publication of legal notices. Reference to the Statutes, with a careful consideration of the injustice of a law that would require mining companies in the interior to deprive local weeklies of support and patronage and bestow it upon distant city dailies, at double or tripple cost, will illustrate its outrageous character. It would be bad enough to oblige companies having offices in cities to incur unnecessarily heavy expenses for publication. The law is certainly plain enough for any honest minded person, yet to prevent quibbling, there would be no harm in the present legislature defining the manner of publication more extensively, and we shall look some for action in the matter.

Another Coal Discovery in British Columbia.—A new discovery of coal in British Columbia has just been verified. Its importance may be gathered from these facts: The land secured to the fortunate proprietors is not less than 500 acres of mining ground. From several seams in this, the coal, which is of good quality, can be quarried. A water front of ample extent has been also obtained for shipping purposes, and men seem only to be required, tools in hand, to vastly increase our supplies. The value of cheap fuel need not be mentioned in connection with the bulk of our poorer ores; it is the essential.

A Free Stock Board.—A Free Stock and Exchange Salersoom is to be opened in a few days at No. 614, Montgomery street, recently occupied as a German saloon. The saloon was closed out on Thursday for the above purpose. The company leasing the premises will charge no admission or initiation fee, but will collect a certain per centage off all sales effected in the rooms. None but brokers will be allowed to transact business in the room.

Govenor Low has appointeded W. A. Holcomb Commissioner of Deeds for Unionville, Nevada Territory. Mr. Holcomb is now serving a two years, term as Treasurer of Humboldt County; is assistant recorder, secretary of several rich mining companies, writes for the *press*, has a commission as notary public and is with all the rest an uprigbt, good fellow.

Correspondence.—Several of our valuable contributors failed to send their communications in season for the present issue. All correspondence intended for immediate insertion, should reach us early in the week. We desire your favors early and often, gentlemen.

MINING SHARE MARKET.

The mining share market still continues unusually active, Chiefly, however, in speculative shares. Orders for investment from the East have fallen off, of late, in consequence of the stringency of the money market; still, enquiries are now and then made from that direction, and the utmost confidence is expressed by eastern capitalists in the stability of our leading mining shares. Our own capitalists are also beginning to feel renewed confidence in many of our mines, and miss no opportunity to improve the advantages presented by new and important developments.

Ophir shares still remain comparatively quiet.—Nineteen feet have changed hands since our last report. Commencing at $1,585 on Saturday, they advanced to $1,900 at the opening of the Board on Monday, and gradually declined to $1,600, regular way, at yesterday's Board.

Gould & Curry shares have been but little dealt in. We notice but one transaction of four shares at $5,000 per foot, a decline of fifty dollars.

Savage shares still remain uncalled for to any extent. We notice but two transactions of one share each, the first at $2,800; the second, yesterday $2,775, seller 30 days. Holders firm at $2,850. We omitted, in our last, to notice a dividend of $50 per foot declared on the 6th instant.

Challar has been unusually active since our last report. We quote sales of 1060 shares (265 feet) upwards of one fifth of the entire number. Monday's sales opened at $600, b 30; gradually declined to $275 on Wednesday, recovered to $460, b 30, on Thursday, and closed yesterday at $430, with a weak market. Several causes have contributed to the sudden and important depression of this stock. Report says that the ore in the lower part of the mine, is not looking as well as formerly; but the chief cause of the decline is doubtless attributable to the large amount of hypothecation which has been effected in this stock.

The Lady Bryan still continues to form an important feature in the market. Sales of 1409 shares have been reported since our last quotations, at slightly declining rates, against 3723 shares, which found a market last week. It is reported that richer ore than ever, is still being taken from the locality of the recent strike, and furthermore, that rich ore has also been struck in the main shaft, at a considerable distance from the former locality. The prospects of this mine are certainly very flattering.

The Desert, the adjoining claim to the Lady Bryan, has not been so much enquired for as last week.—Considerable business has been done, however, in this stock. We quote sales of 491 shares, against 1163, reported for the week previous to our last issue. The market opened on Monday at $17, speedily advanced to $26, and closing at $24; gradually declined, with decreasing sales, to $20, on Tuesday. No sales on Friday.

Burning Moscow has recovered from its last weeks' decline and is again largely enquired for at an important advance. It opened the market on Saturday at $95, and advanced at the close to $115; gradually advanced to $142½ on Thursday, but yesterday declined to $120 @ 130, b 30 days.

North American has not been so much in demand as last week. The advanced rates of previous quotations, however, have been fully sustained. We understood that this company has struck the lead in their main shaft which is located within 150 feet of the Uncle Sam, and full confidence is entertained by holders that they will eventually find the lead equally valuable.

Adriatic shares are still in favor, and are quoted at from $11 @ $13.

Bullion, Gold Hill, has improved somewhat, and has fluctuated at from $66 @ $80 b 30.

We quote the Melones at from $62½ @ 67½; Baltic has been considerably enquired for, and has fluctuated from $120, to $170.

We quote Norton at $8½; Caledonia tunnel at $31; Michigan at $45, b 30; South Burnside at $64¼; El Dorado at rates fluctuating at from $50 @ $70.

Uncle Sam has found buyers at from $550 @ $575; Baltimore American is quoted at from $35 @ $40; Buckeye $13 @ 16; Daney is inactive; Lucerne $28.

Harmon, El Dorado Co., is inactive. We quote at $15; very encouraging reports are received from this mine, giving ovidcnee that it is ably and judiciously managed.

Real del Monte shares have formed quite a feature in the market the past week, and have changed hands very freely, generally at about last quotations. Nearly 400 feet have changed hands during the week. Sales were made quite freely during the early part of the week at from $320 @ $360, subsequently shares declined to $240 @ $275. We are not advised of any reason for the decline of yesterday. The new mill of this company has been put in operation and works admirably. They have several hundred tons of very rich rock on hand at the mill. A compromise of all adverse claims has been effected without any increase of the capital stock, and it is confidently expected that the company will soon be able to commence declaring dividends.

The Antelope has advanced materially over recent quotations, and is now held firmly at from $250 @ 275. We notice but one transaction the past week, and that at $252½, some $30 over last quotations. Their mill will soon be completed, and will be scarcely inferior to that of the Del Monte. The claim is one of undoubted richness, and further advance in these shares may soon be expected.

The Evangel, devoted to the Baptist interest, is one of the choicest of religious family newspapers published in this city.

Price of Gold in New York.

Saturday, January 9th—quoted at 152.			
Monday	" 11th—	"	at 152¼.
Tuesday	" 12th—	"	at 153¼.
Wednesday	" 13th—	"	at 153½.
Thursday,	" 14th—	"	at 151½.

Legal Tenders, San Francisco, 67 per cent.

Stockton.—Patrons of the *Press* will obtain the paper at the News Store of Kerski Bros, who receive them by Sunday morning's boat.

Our Traveling Agent, J. M. Wolf, contemplates an early visit to Nevada, Placer and El Dorado counties, and Nevada Territory. Mr. W. is an observing and reliable gentleman, and our friends in sections visited by him, will confer mutual favors upon themselves and us, by giving him a cordial reception.

Mr. Jarvis Jewett is our duly authorized advertizing agent and collector in this city.

Zenith Gold and Silver Mining Company.—Office, 528 Montgomery street, San Francisco, January 8th, 1864.—At a meeting of the Board of Trustees of the Zenith Gold and Silver Mining Company, held this day, January 8th, 1864, an assessment of $1 per share was levied upon each and every share of the assessable stock of said Company, now due and payable immediately, in United States gold coin, to the Secretary, at the office of the Company. By order of the Board of Trustees.

3 M. G. ELMORE, Secretary.

Verona Gold and Silver Mining Company.—San Francisco, January 12th, 1864.—Notice is hereby given, that at a meeting of the Board of Trustees of the Verona Gold and Silver Mining Company, held this 12th day of January, 1864, an Assessment of Fifty (50) cents per share was duly levied on each and every share of the Capital Stock of said Company, due and payable immediately, in United States gold coin, to the Secretary, at his office, No. 57 Government House, or to G. L. Church, Superintendent, at Austin, Reese River. (3-3t) WM. POOLER, Sec'y.

D. B. HINCKLEY, WM. E. WORTH. WM. A. FIELD

Fulton Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First Street, between Market and Mission streets,

3-qy SAN FRANCISCO.

Pacific Metallurgical Works,

North Beach, San Francisco.

THE COMPANY HAVING BEEN TO A LARGE EXPENSE IN enlarging their Works, are now prepared to contract to work any quantity of Gold and Silver Rock, nearer the true assay than any other Company in this Country or Europe.

G. T. FOUGUE, Superintendent.

S. C. BRADSHAW, Jr., Secretary.
Office, 511 Sacramento street, San Francisco. 3-tf

New Advertisements.

Zenith Gold and Silver Mining Company, Office 530 Jackson street, San Francisco, January 6th, 1864.—Notice is hereby given, that, in accordance with the laws of the State of California, there will be sold at public auction, at the salesroom of Jerome Rice & Co., No. 527 Montgomery street, San Francisco, on MONDAY, February 8, 1864, at 11 o'clock A. M., to the highest bidder for cash, in United States gold coin, so many shares of the capital stock of the Zenith Gold and Silver Mining Company, standing in the names of the following shareholders, as will be necessary for the payment of three assessments duly levied by the Board of Trustees, as follows, to wit: Assessment No. 1, Twenty-five cents per share, levied September 24, 1863; Assessment No. 2, Twenty cents per share, levied October 13, 1863; Assessment No. 3, Thirty cents per share, levied December 2, 1863, together with costs of advertising and expenses of sale, unless said assessments, with accruing charges, are previously paid:

Names.	No.	As'ts	Shares.	Amount.
D. C. Park	2	3	30	$26 50
J. W. Sheppard	2	3	20	10
R. W. Hent	2	3	50	25
W. Wilmot	2	3	65	32 50
E. Franklin	2	3	50	25
W. S. Lyons	2	3	45	23 50
H. M. Beers	2	3	10	5
L. L. Lewis	2	3	20	10
W. Carey Jones	2	3	5	2 50
U. D. Reynolds	2	3	2	1
S. D. Scofield	2	3	10	5
J. P. Bell		3	25	7 50
W. Osborn		3	85	25 50
J. G. Perkins		3	30	9
A. Bnetell		3	4	12
Geo. C. Moon		3	87	26 10
Wm. H. Knapp		3	12	3 60
Wm. B. Maxson		3	22	6 60
H. C. Patridge		3	10	3
C. Wilson		3	5	1 50
E. S. Stratton		3	5	1 50
A. Harris		3	84	25 20
Gilman Reed		3	5	1 50
E. N. Longfellow		3	10	3
J. M. Depass		3	10	3
C. Harley		3	23	6 90
J. Thompson		3	5	1 50
G. H. Crowe		3	12	3 60

By order of the Board of Trustees.

The office of the Zenith Gold and Silver Mining Company has been Removed to No. 528 Montgomery street.

3-td M. G. ELMORE, Secretary.

Silver Butte Consolidated Silver Mining Company.—Office 528 Montgomery street, San Francisco. Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Silver Butte Consolidated Silver Mining Company, there will be sold at public auction, at the office of the Company, San Francisco, on SATURDAY, February 27th, at 11 o'clock A. M. of that day, to the highest bidder, for cash, in United States Gold coin, so many shares of the capital Stock of said Company, standing in the names of the following shareholders, as will be necessary to pay assessment Nos. 2 and 3, duly levied thereon, and now being due and unpaid, together with the expense of advertising and sale—to wit:

Name.	No. cert.	No. Ass't	Shares.	Amt.
Browning, John	137, 138, 139	3	25	$12 50
Beuchamp, J. W.	100, 239	2 and 3	20	20
Butman, H.	152	3	2	1
Cross, J.	191	3	25	12 50
Ebeling, P.	131	3	1	50
Erskine, Geo. B.	301	3	3	1 50
Fallon, M. M.	111	3	1	50
French, B. F.	173	3	5	2 50
Johnson, B. R.	163	3	1	50
Johnson, G. H.	54, 144, 146	2 and 3	26	26
Johnson, G. H.	25, 56, 236 240, 257, 258, 259	3	35	17 50
Keck, H.	192 to 198 in., 201	2 and 3	125	125
Loomis, Riley	135, 354, 355, 356	3	26	13
Lord, T. B.	571	3	64	32
Littlefield, J. D	81, 85, 88, 89, 214, 215	3	81	40 50
Malus, J. K.	41, 42, 48, 49, 204	3	27	13 50
Merlan, E. D.	401, 266	2 and 3	21	21
Manchester, A.	100	2 and 3	6	6
Norcross, J. K.	184	3	2	1
Osborn, W. F.	349 350 351	3	23	11 50
Percival R.	66, 91, 95, 98, 282	3	12	6
Sproul, J. B.	211	3	5	2 50
Stratton, S.	212, 339	3	20	10
Wood, Sarah	243, 352	3	6	3

By order of the Board of Trustees. M. G. ELMORE, Sec.

Table Mountain Copper Mining Company.—Office, 528 Montgomery street, San Francisco. Notice is hereby given that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Table Mountain Copper Mining Company, there will be sold at public auction at the office of the Company, San Francisco, on FRIDAY, February 12th, at 11 o'clock A. M. of that day, to the highest bidder, in cash, for United States Gold coin, so many shares of the capital stock of said Company standing in the names of the following Shareholders as will be necessary to pay assessment No. 3, duly levied thereon and now being due and unpaid, together with the expenses of advertising and sale—to wit:

Name.	No. cert.	No. Shares.	Amt.
Samuel Geddes	7, 28, 30, 31, 32	57	257
N. H. A Mason	143	133	133
R. J. Vandewater	136, 156	34	24
John Holman	140	4	4
William Boyer	210	10	10
Levi Drew	205	5	5
Henry Van Vleck	187	25	25

By order of the Board of Trustees. M. G. ELMORE, Sec.

San Francisco, January 11, 1863.

Mount Eden Mining Co.—Notice is hereby given; that the Board of Trustees of the Mount Eden Mining Company, at a meeting held January 2d, 1864, levied an assessment of One Dollar on each and every share of the Capital Stock of said Company, said assessment payable immediately in gold coin to the Secretary, at the office of the Company, No. 620 Washington street, Room No. 3. H. B. CONCDON, Secretary.

San Francisco, January 16, 1864. 3-5t

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. The Mining and Scientific Press Patent Agency has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

A. S. HALLIDIE & CO.,

WIRE ROPE MANUFACTURERS.

Established 1857.

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After seven years' use throughout the State of California and the Pacific Coast generally, we can confidently recommend Wire Rope for

HOISTING FROM DEEP MINES,
GUY ROPES FOR DERRICKS, &c.,
STANDING RIGGING FOR SHIPS,
FERRY ROPES FOR FERRIES,
SASH CORD FOR WINDOW SASHES,
ETC., ETC., ETC., ETC., ETC., ETC.,

It being Cheaper, Stronger, Lighter and More durable than any other kind of Rope, and not stretching or shrinking by atmospheric changes.

MINING COMPANIES, by using it for Hoisting Purposes, save 66 per cent. on their outlay for other ropes.

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For fencing large parcels of land—permanently, economically and expeditiously. Manufactured in any length desired. Pamphlets, containing weight, strength and price, forwarded free on application to the Manufacturers.

WIRE SUSPENSION BRIDGES AND AQUEDUCTS

We are prepared to erect, of any span and capacity, and take pleasure in referring those interested to the many structures of this kind built by us in California, Oregon and British Columbia, of span from 200 to 400 feet. 3-3in

R. W. MYERS. H. C. SOMERS

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The Largest Wholesale and Retail Manufacturers of

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IN CALIFORNIA.

OVAL PIER AND MANTEL MIRROR FRAMES.

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THURSDAY EVENING, January 14th, 1864, by Professor Brewer. Subject: Mountain Scenery of California.

THURSDAY EVENING, January 28th, 1864, by Professor Whitney. Subject: ——— ———.

THURSDAY EVENING, February 11th, 1864, by Rev. T. Starr King. Subject: ——— ———.

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The Ophir Co. vs. the Burning Moscow--Application for Injunction--Decision of Judge North.

This application is made upon the complaint and a large number of affidavits introduced by plaintiff. The answer denies the equities of the complaint, and a large number of affidavits are introduced by the defendant, directly controverting the important facts alleged by the plaintiff. The plaintiff claims the ground on which the defendant is at work, (and from entering on which the plaintiff had been enjoined by order of the court,) by virtue of a purchase of what is known as the middle lead, lying west of the Comstock. It further claims to own the Virginia lead and all lying between the Virginia and Comstock ledges. The defendant denies these several claims of plaintiff, and elaims the ownership of the middle lead, to wit: the Moscow, the Harrison and Lacrosse, and claims to be working on its own ground, and not on the ground of the plaintiff.

For the purpose of deciding this application it is unnecessary to pass upon the location of or title to the Comstock, Virginia or Moscow ledges. There seems to be no doubt as to the fact that the plaintiff has the genuine title to the middle lead, or that the defendant is in the peaceable possession, under claim of title, on the ground which is at work. There is, however, a question between the parties as to what is included in the middle lead purchased by plaintiff.

It is unnecessary, for the remarks we propose to make, to copy the entire decision of the Judge in the above entitled cause. That decision has already been widely circulated in the commercial papers; and no doubt perused by most of our readers. It is sufficient for our purpose to remark that the same peculiarity noticed above with regard to the use of terms, characterises the entire document. After carefully reading it through we were much impressed with the apparent ability of the decision, with but one small exception, and that, by the way, may prove when explained (if capable of explanation) rather important. The learned Judge uses the terms Lead and Ledge, and the Ophir Co's legal advisers apply for an injunction to prevent the Moscow Co, working on their Middle Lead.

Now what do they mean by the words Lead and Ledge which are used indiscriminately by the Judge? Are they one and the same, or do they mean portions of a mettalliferous vein? or a lead of gravel? or a ledge of rocks? or the vein itself? Whatever it may be, one thing is certain, the use they make of those words show the want of a rudimentary knowledge of mining, and no correct idea on the part of the lawyers of what they are asking, or the Judge of what he is deciding upon. If the Ophir Co., wished to prevent the Moscow from working on the middle part of their vein, then the application would have been a sensible one; but if otherwise, the Ophir Company were *very badly advised*, being an admission on their part of the existence of a number of parallel veins, which if we are rightly informed was what their own witnesses denied; affirming that the masses of porphyratic rock named in the Judge's decision, did not extend with any regularity even to the second gallery, and that the works of the Moscow Co., were on a continuation North of that part of the vein which had proved so productive in the South Ophir and Mexican mine.

The law proceedings are similar to the early timbering of their mine, the insufficiency of which was only equalled by its costliness, and which soon caved in, not being able to bear the weight of its own refuse material. Applications like that of the Plaintiff are admirably calculated to please the Stock Board and put larger fees into the pockets of the lawyers. However we are inclined to think that a little wholesale bleeding of these large and plethoric companies cannot do the Territory much harm.

California Cloth for the Russian Navy.—The Mission Woolen Mills, of this city, are now manufacturing a considerable quantity of blue woolen cloth of a particular character, to fill an order given by the commander of the Russian fleet in the Pacific.

On Tuesday morning of last week, in Nevada, John Carlin was instantly killed by the falling of a portion of the Bailey house.

OUR HARBOR DEFENCES.

Should the *Alabama*, or any other craft with hostile intent, attempt to poke her nose into the harbor of San Francisco, she would most assuredly meet with a pretty warm reception. To say nothing of a formidable armament at Fort Point, if a ship should succeed in passing that fortification she would have to encounter a fire from Alcatras, the weight of which may be judged of from the following account of its armament: Batteries for thirty guns have been built during the past summer. Eighty guns were mounted previously, consisting of 8 and 10 inch, and 24 pound field howitzers. The armament of the fortification is shortly to be increased by far heavier guns, which are now on their way thither *via* Cape Horn. These consist of four 10-inch Rodman guns, and one hundred and ten 10-inch and 13-inch guns of other descriptions. A 15-inch gun is to be mounted on the North side of the island, the foundation for which is already completed, It is probable that the two 15-inch guns belonging to the *Comanche*, now "in soak" in our harbor will soon be redeemed from old Neptune, so that if occasion should require, they might be made to do good service, temporarily, from Telegraph Hill, or Rincon Point. There is very little danger to be apprehended to this city from a visit of the Alabama, or any other Confederate cruiser in the waters of the Pacific. The chief detriment to our interest would arise from the dangers to which our commerce would be exposed on the ocean.

The Russian Admiral and the Comanche.—The Russian Admiral Popoff has tendered to the agent of the New York underwriters the use of four complete sets of diving apparatus, with experienced divers to work them, and whatever force of men from his crews as is necessary to work the apparatus, for service in raising the Aquila, or recovering the Comanche This generous offer will be accepted if it should happen that the next steamer does not bring out the means of raising her, from New York.

Another Rich Copper Discovery has recently been developed, near Sault Ste. Marie. An incorporated company has been organized to work it, and one-fifth of the whole stock has been sold for $30,000. The company has been made up by gentlemen of capital and enterprise in Detroit, so that the speedy development of the richness of the discovery is redered a matter of certainty.

Broke Her Shaft.—The P M. S. S. Co.'s steamship Constitution broke her shaft while coming down from Benicia, on Monday. The Orizaba took her place, for Panama, on Wednesday. The Company have a duplicate shaft ready at Benicia, to take the place of the broken one.

More Coal in Nevada Territory.—It is stated that a new coal field, of large extent, has recently been discovered in Nevada Territory, about eighteen miles north of the newly-discovered mines in the Desert District.

New Railroad Pass.—A new pass, called from the discoverers "Leonard and Miller's Pass," has been found out in the Sierra Nevada, in the Kern River country.

Against a Change.—The Governor has transmitted a special message to the Legislature in relation to the financial condition of the State, in which he takes strong ground against a change in the currency.

The Rocky Mountain News tells us that Wm. H. Russel, Esq., has organized a mining company in New York, with a capital of $2,200,000, for operations at Central and Empire Cities. All his mining property at both places is put in. Six hundred thousand dollars is to be paid in at once in cash, and Mr. Russel will return in a short time as the Superintendent and Manager of the business.

Mexican Dollars have rated at 9 @ 12 per cent premium, in this city, during the past year.

Esmeralda.—The *Aurora Times* of January the 8th., furnishes the following:

The Jennie Johnson Company, on Last Chance Hill, are working their claim vigorously. Two shifts of hands are employed day and night. The Jennie Johnson is located a short distance west of the Crockett Company. Their shaft is down 117 feet, and excellent looking quartz has been found, showing gold to the naked eye.

The Shenandoah lode is near the Jennie Johnson. The Company are sinking a perpendicular shaft, and are down about 75 feet. Their prospects are exceedingly good.

The Crockett has an old-established reputation. It is being worked steadily. Stock in this company commands a good figure.

The Hibernia Consolidation on Middle Hill, has five lodes or ledges. The main ledge upon which they are sinking, is ten feet wide. The company has got a shaft down about 50 feet; and another contract is let for sinking 50 feet more.

The Maryland Tunnel, owned by the Gibraltar Company, on Silver Hill, is running in above the celebrated Yancey ledge. The tunnel has been driven in 150 feet. A new contract was given out the other day for 100 feet further. At a depth of 125 feet the Company run through a blind ledge, but have not yet reached the lodes to strike which it was located.

The Maggie Green, also on Silver Hill, are down some 75 feet, and have a contract out for 25 feet further. This Company have a four foot ledge. Their rock now shows both silver and gold. The claim is being worked every day.

The Hidalgo Company, which we mentioned a few days ago, are pushing along finely. They have a good four foot ledge, and the claim is undoubtedly a good one.

The Yancey, Cary, Iowa, Comstock, and other rich claims on Silver Hill, are reserved for another occasion.

The Daylight Tunnel Company's claim is located on Silver Hill, to the west of the Iowa, and the work upon it is now being carried on with energy and success under the superintendence of Mr. Jacks. The ledge shows a surface of about three feet, and is very rich. We were shown some rock taken from it this morning, which equals any from the crack leads of the district, gold being visible through it to the naked eye.

From small lot of rock crushed from the Bamboo claims, recently, the yield was 68 ounces. Rock not selected

Our citizens have been enjoying remarkable fine weather for this season of the year. At present the sun shines warm and pleasantly during the greater portion of the day. Thus far we have had a mild open Winter; too much so for the good of the place.

Arizona Mines.—A letter in the *Alta*, from New Mexico, says:—

"The new gold mines are situated on the Gila and Francisco Rivers, about two hundred miles from Tucson, and about the same distance from Fort Yuma; they range from the Colorado to the Gila, and are about 120 miles form the Pimos villages, in a northwest direction. Persons who have been there say they are similar to the diggings of California in early days. The miners are working with rockers; some dry-washing. Charles Brown passed by this place the other day with 24 pounds of the "ore;" he gave me a small specimen worth about $12; the gold is worth $19 35 per ounce. It is coarse gold, and the smallest of it is about like the largest of Pleasant Creek (Southern Oregon) gold. He accumulated his 24 pounds in about two months. Brown is an old Californian, and says that these diggings will turn out richer than the placer diggings of California. All the white teamsters in the outfit have gone there. If you have any idea of trying the locality, start about the first of June.

Beautiful.—The Gold Hill *News* of January 6th has the following poetic item: A bright sun and dense fog united this morning in making a mirage that could not be excelled in beauty. The valleys away to the east were made to assume the appearance of a vast and troubled sea, while the high hills looked like islands. The illusion was so perfect that one looking on the scene might almost fancy that he heard the roar of the waves as they dashed against the headland.

If you ever saw a crow with a king-bird after him, you have an image of a dull speaker and a lively listener.

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A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S. Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.

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New Incorporations.

Tha folloiwng is a list of the companies having their principal places of business in San Francisco which have filed articles of incorporatious iu the County Clerk's office since our last report.

GEN. GRANT GOLD, SILVER AND COPPER MINING COMPANY.—Locatiou, Washington District, Sonoma county. Capital stock $160,000, in 3,200 shares of $50 each. Trustees: Nathan Fike, George Lawrence and J. Fawcett.

LACLEDE G. AND S. M. Co.—Lander county, N. T. Trustees: J. L. Hardin, J. W. Moss, W. J. Moss, C. C. McComb, T. R. Posey. Capital stock, $160,000.

DIVIDEND G. AND S. M. Co.—Tulare county, California. Trustees: R. C. Dunn, R. R. Provines, Saml. G. George, Henry Baker, Joseph W. Souther. Capital stock, $210,000.

SUNNYSIDE G. AND S. M. Co.—Lander county, N. T. Trustees: Nathaniel Puge, G. M. Burnham, Alden B. Poster. Capital stock, $100,000.

COMMERCIAL MINING Co.—Santa Catalina Island. Trustees: A. B. Winegar, George J. Hohe, Stephen Smith. S. E Oakley. Capital stock, $480,000.

NONE SUCH S. M. Co.—Reese River. Trustees: George Clifford, S. W. Boriag, M. J. Newmark. Capital stock, $400,000.

SUALETT S. M. Co.—Reese River, same trustees. Capital stock, $160,000.

REED G. & S. M. Co.—Lander county, N. T Trustees: P. J. White, J. Carroll, James F. Reed. Capital stock, $10,000.

EXCHANGE G. & S. M. Co.—Reese River. Trustees: George B. Fiske, A. T. Dewey, C. W. M. Smith. Capital stock, $110,000.

NICARAGUA G. & S. M. Co.—Same location and trustees. Capital stock, $120,000.

BENDIGO G. & S. M. Co.—Same location and trustees. Capital stock, $110,000.

NIMROD G. & S. M. Co.—Same location and trustees. Capital stock, $110,000.

PEACOCK G. & S. M. Co.—Same location and trustees. Capital stock, $120,000.

ALPHA S. M. Co.—Smoky Valley District, Lander County, N. T. Capital stock, $100,000, in shares of $100 each. Trustees: J. S. Finch, S. J. Marston and H. A. Mayhew.

ALAMEDA MINING AND MANUFACTURING COMPANY.—Washiagtou District, Lander County, N. T. Capital stock. $100,000, in shares of $100 each. Trustees: T. W. Mulford, S. J. Marston and H. A. Mayhew.

SANTA ROSA S. M. Co.—Cacachilas, Lower California. Capital stock, $300,000, in shares of $100 each. Trustees: A. Creamer, J. P. Medan, D. Frick, B. Anthes and P. Payoous.

LIONCITA G. AND S. M. Co.—Guaymas District, State of Sonora, Mexico, Capital stock, $480,000, in shares of $100 each. Trustees: Marx Dorn, Ed. Cohn, Henry Pierce, C. W. Kellogg and —— Regensburger.

I X L G. AND S. M. Co.—Amador county, California. Trustees: John H. Williams, Robert Thomson, O. Tanner, Robert Fisher, Louis Gullickson. Capital stock, $150,000.

ALABAMA No. 1, G. AND S. M. Co.—Amador county. California. Trustees: Daniel Davidson, J. F. Davis, W. J. Wheeler, A W. Herbert, Robert Thompson. Capital stock, $150,000.

ALABAMA No. 2, G. AND S. M. Co.—Amador county, Cal. Trustees: R. Thompson, D. Davidson, C. Kauffman, C. Kirk, M. A. Fry. Capital stock, $150,000.

LA PASQUET G. AND S. M. Co.—Amador county, California. Trustees: J. F. Davis, J. G. McCauly, T. W. Leggett, J. F. Meyers, W. J. Wheelcr. Capital stock, $950,000.

SAN JOAQUIN G. AND S. M. Co.—Amador county, California. Trustees: John G. McCauly, Wm. Williams, John E. Hall, John R. Foster, John Leggott. Capital stock, $150,000,

WILLIAMS G. AND S. M. Co.—Mono county, Cal. Trustees: J. H. Williams, Thos. Odgers. William Pearson, Wm. Field, C. Nelson. Capital stock, $175,000.

ORACLE G. AND S. M. Co.—Amador county, California. Trustees: Jas. Mylett, Walter O. Malley, T. Ryan, Henry Turner, Wm. Theall. Capital stock, $175,000.

TWIN G. AND S. M. Co.—Amador county, California. Trustees: J. H. McCanahey, J. T. Lock, W. C. Shear, Wm. Berry, F. M. Ellis. Capital stock, $125,000.

GEORGE WASHINGTON G. AND S. M. Co.—Amador county, California. Trustees: E. B. Curtis, Thomas Carlson, T. W. Leggett. Capital stock, $150,000.

MOSELLE G. AND S. M. Co.—Reese River. Trustees: Richard Ronan, M. Cannavan, F. Rading. Capital stock, $90,000.

CORBETT G. AND S. M. Co.—Mono county, California. Trustees: A. C. Corbett, D. C. Corbett, Theodore Wetzell. Capital stock, $200,000.

EVADNE G. AND S. M. Co.—Reese River. Trustees: J. W. Wadleigh, A. A. Hunter, G. W. Frink. Capital stock, $100,000.

PRIDE OF NEVADA MINING Co.—Reese River.—Trustees: C. C. Knowles, Julius Robinson, J. D. Enos, A. J. Baker, Joseph Lipman. Capital stock, $300,000.

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ORION G. AND S. M. Co.—Same location and trustees. Capital stock, $260,000.

GUSSSAPPRIS M. Co.—Chihualua, Meqico, Srustees: John Heard, Frederick Griffing. A. C. Peachy, William Thompson, Jr., D. B. Northrop, Chas. H. Hosmer, W. C. Wallace. Capital Stock, $2,400,000.

OLD HICKORY M. Co.—Reese River. Trustees: Alsop J. Holmes, John O'Leary, H. H. Allen.—Capital stock, $600,000.

JACKSON M. Co.—Storey county, Nevada Territory. Trustees; Wm. H. Bell, Cobert C. Page, N. L. Broughton, Franklin Loughion, James Neary, Patrick Forestal. Capital stock, $120.000.

MOUNT VERNON G. AND S. M. Co.—Lander county Nevada Territory. Trustees: E. Hindman, Wm. H. Dudley, J. W. Taylor, J. W. Burnham, Eban Smith. Capital stock, $100,000.

RIO CHICO S. N. Co.—Sonora Mexico. Trustees: John E. Kincaide, Benjamin Dore, George W. Paget. Capital stock, $600,000.

MEDER G. AND S. M. Co.—Santa Cruz county Cal. Trustees: Geo H. Palmer, Alex. H. Baily, Leander Ransom, P. G. Buchan, Thos. N. Starr.

Stock Reports.

SAN FRANCISCO STOCK BOARDS.

Sales by the San Francisco Stock and Exchange Board, and the San Francisco Board of Brokers.

[Revised for the Mining and Scientific Press.]

SATURDAY, JANUARY 9, 1864.

S. F. S. AND E. BOARD.

80 shares San Francisco Gas Company, 84 P cent.
10 shares Josephine at $2½ per share.
10 shares Napoleon, copper, at $40½ per share.
20 shares Napoleon, copper, at 43 per share—b 30.
10 shares CharlesDuny at $9 per share,
10 shares Wide West at $40 per share.
5 shares Real del Monte at $365 per share.
5 shares Real del Monte at 360 per share.
5 shares Real del Monte at 350 per share.
10 shares Real del Monte at 310 per share.
11 shares Real del Monte at 325 per share.
5 shares Real del Monte at 325 per share—b 5.
6 shares Utah at $17 per share.
10 shares Silver Hill at $12½ per share.
25 shares Lady Bryan at $55 per share.
16 shares Lady Bryan at 52½ per share.
10 shares Lady Bryan at 53 per share.
30 shares Lady Bryan at 52 per share.
40 shares Lady Bryan at 55 per share—b 30.
10 shares Lady Bryan at 53 per share.
10 shares Lady Bryan at 53¾ per share.
10 shares Lady Bryan at 54 per share.
25 shares Lady Bryan at 54 per share.
5 shares Bullion, G. H., at $80 per share—b 30.
5 shares Bullion, G. H., at 75 per share,
2 shares Baltic at $160 per share.
10 shares Baltic at 155 per share.
5 shares Baltic at 150 per share—s 30.
10 shares Baltic at 148 per share.
10 shares Desert at $22 per share.
13 shares Desert at 30 per share.
10 shares Desert at 19 per share.
22 shares Raltic at $155 per share—b 30.
40 shares Raltic at 150 per share.
10 shares Lucerne at $25 per share—b 30.
20 shares El Dorado at $53 per share.
35 shares North American at $80 per share.
10 shares North Potosi at $50 per share.
12 shares Caledonia Tunnel at $35 per share—s 30.
40 shares Caledonia Tunnel at 36 per share.
4 shares Rlue Ledge, El Dorado county, at $8 per share.
100 shares Blue Ledge, El Dorado county, at 7½ per share.
10 shares Baltimore American at $32 per share.
10 shares Melones at $62½ per share.
20 shares Melones at 55 per share.
10 shares Melones at 67½ per share—b 30.
10 shares Pride of the West at $82½ per share—b 30.
20 shares Chollar at $575 per foot—b 30.
12 shares Ophir at $1885 per foot.
70 shares Burning Moscow at $100 per foot—r w.
20 shares Burning Moscow at 100 per foot.
10 shares Burning Moscow at 95 per foot—b 30.
50 shares Burning Moscow at 105 per foot—b 30.
20 shares Burning Moscow at 100 per foot—s 30.
20 shares Burning Moscow at 98 per foot—s 30.
10 shares Burning Moscow at 101 per foot.
20 shares Burning Moscow at 106 per foot—b 30.

AFTERNOON SESSION.

10 shares Chollar at $575 per foot.
5 shares Chollar at 575 per foot.
3 shares Chollar at 575 per foot.
10 shares Pride of the West at $70 per share—s 4.
10 shares Baltimore American at $37½ per share.
10 shares Baltimore American at 37½ per share.
10 shares Baltimore American, 37½ per share.
10 shares Potosi at $1,175 per share.
20 shares Caledonia Tunnel at $31 per share.
10 shares Bullion, $67½ per share.
10 shares Bullion, 66 per share.
10 shares Bullion, 66 per share.
5 shares Bullion at 70 per share.
10 shares North Potosi at $30 per share—b 30.
1 share Ophir at $1,650 per foot.
10 shares Lady Bryan at $54 per share.
10 shares Lady Bryan at 55 per share.
11 shares North American at $88 per share—b 3.
5 shares Burning Moscow at $105 per foot—s 30.
10 shares Burning Moscow at 111 per foot.
13 shares Burning Moscow at 112½ per foot.
30 shares Desert at $17 per share.

S. F. B. OF BROKERS.

40 shares Capitola, copper, at $5,
5 shares Harmon, El Dorado county, at $13 per share.
10 shares Seneca at $5½.
60 shares Bunkers at $22½.
20 shares New York Consolidated at $18.
10 shares New York Consolidated at 18 per share.
5 shares New York Consolidated at 18½ per share.
50 shares Cayudetta at $6.

MONDAY, JANUARY 11, 1864.

S. F. S. AND E. BOARD.

5 shares State Telegraph at $25 per share; 13 do. at 26 per share.
19 shares Spring Valley Water at 53 per cent. on amount paid in.
4 shares Napoleon, copper, at $40 per share.
10 shares El Dorado at $62½ per share.
10 shaces El Dorado at 60 per share.
10 shares El Dorado at 67 per share.
5 shares El Dorado at 70 per share—buyer 30 days.
45 shares Burnside at $13 per share.
25 shares Adriatic at $12 per share.
30 shares Adriatic at 13 per share.
27 shares Wide West at $51 per share.
3 shares Utah at $17 per share.
7 shares Silver Hill at $12½ per share.
10 shares Silver Hill at 13 per share.
5 shares Bullion, G. H., at $70 share.
5 shares Bullion, G. H., at 70 per share—b 20.
40 shares Lucerne at $25 per share—b 30.
5 shares Baltic at $140 per share—r w.
20 shares North American at $80 per share—b 30.
20 shares North American at 82½ per share—r w.
10 shares Real del Monte at $360 per share—b 30.
5 shares Real del Monte at 355 per share—b 30.
5 shares Real del Monte at 330 per share.
5 shares Real del Monte at 325 per share.
20 shares Real del Monte at 320 per share.
5 shares Real del Monte at 325 per share.
25 shares Echo at $27 per share.
60 shares Lady Bryan at $53 per share.
10 shares Lady Bryan at 53½ per share.
10 shares Lady Bryan at 54 per share.
30 shares Melones at $63 per share.
10 shares Desert at $17 per share.
40 shares Desert at 20 per share.
25 shares Desert at 20½ per share.
20 shares Baltimore American at 37½ per share.
4 shares Overman at $500 per share.
100 shares Utah, F. D.' at $2½ per share.
20 shares Nevada, Justice Ground, at $110 per share.
20 shares Chollar at $600 per foot—b 30.
20 shares Potosi at $1150 per foot.
2 shares Hale & Norcross at $925 per foot.
40 shares Daney at 65 per foot.
10 shares Burning Moscow at $115 per foot—r w.
84 shares Burning Moscow at $115 per foot.
20 shares Burning Moscow at 120 per foot—b 30.
62 shares Burning Moscow at 115 per foot.
40 shares Chollar at $455 per foot.
40 shares Chollar at 575 per foot—s 30.
12 shares Ophir at $1900 per foot.
24 shares Ophir at 1880 per foot.

AFTERNOON SESSION.

10 shares Desert at $25 per share.
20 shares Desert at 26 per share.
10 shares Desert at 25 per share.
15 shares Desert at 24 per share.
20 shares Willow Springs at $1½ per shnre.
60 shares Lady Bryan at $54 per share.
47 shares El Dorado at $65 per share.
5 shares El Dorado at 65 per share—b 2.
5 shares Melones at $60 per share—b 30.
10 shares Baltimore American at $35½ per share.
10 shares Baltimore American at 36 per share.
10 shares Lady Bryan at $55 per share—b 30.
10 shares Lady Bryan at 53 per share.
34 shares Burnside at $14 per share.
5 shares Real del Monte at $320 per share—b 30.
20 shares Bullion, G. H., at $72 per share,
15 shares Bullion, G. H., at 75 per share—b 30.
10 shares Bullion, G. H., at 71 per share.
10 shares North American at $80 per share.
20 shares North American at 81½ per share.
35 shares Silver Hill at $13 per share.
20 shares Silver Hill at 15 per share—b 30.
15 shares Adriatic at $12½ per share.
10 shares Nevada, Justice Ground, at $105 per share.
10 shares Baltic at $140 per share.
10 shares Baltic at 1 5 per share.
10 shares Baltic at $130 per share.
10 shares Baltic at 125 per share.
5 shares Baltic at 130 per share—b 30.
10 shares Kohler Bros. at $7 per share.
300 shares Bodie No. 2 at $2 per share.
22 shares State Telegraph at $26 per share.
10 shares Burning Moscow at $115 per foot.
15 shares Burning Moscow at 112½ per foot.
20 shares Burning Moscow at 112 per foot.
70 shares Burning Moscow at 110 per foot.
20 shares Chollar at $585 per foot—b 30.
10 shares Chollar at 550 per foot.
4 shares Chollar at 555 per foot.
40 shares Daney at $65 per foot.

S. F. B. OF BROKERS.

5 shares El Dorado at $70.
10 shares Lady Bryan at $56 per share—b 30.
10 shares Wide West at $52½ per share.
4 shares Wide West at 55 per share—b 30.
1 share Real del Monte at $3330 per month.
25 shares Sue Evans, Reese River, at $3.
10 shares Rising Sun, H., at $20.
10 shares Rising Sun, H., at $21.
3 shares Burning Moscow at $118 per foot.
20 shares Bankers at $23 per share.

TUESDAY, JANUARY 12.

S. F. S. AND E. BOARD.

25 shares Willow Springs at $1¼ per share.
5 shares Willow Springs at 1 per share.
60 shares Burnside at $15 per share.
10 shares Burnside at 15½ per share.
120 shares Burnslps at 16 per share.
40 shares Burnside at 15½ per share.
5 shares Wide West at $52½ per share.
10 shares Real del Monte, $300 per share—b 30.
5 shares Real del Monte at 280 per share—r w.
5 shares Real del Monte at 280 per share.
5 shares Real del Monte at 270 per share,
5 shares Real del Monte at 265 per shnre.
10 shares Utah at $13 per share.
15 shares Utah at 19 per share.
10 shares Utah at 20 per share—b 30.
25 shares Silver Hill at $15½ per share—r w.
40 shares Lady Bryan at $50 per share.
210 shares Lady Bryan at 49 per share.
50 shares Lady Bryan at 50 per share.
10 shares Lady Bryan at 51 per share.
10 shares El Dorado, $62½ per share.
180 shares Baltimore American at $37¼ per share—b 30.
10 shares Baltimore American at $37½ per share.
10 shares Baltimore American at 40 per share—b 30.
2 shares Uncle Sam at $550 per share.
20 shares Gold Canon at $27¾ per share.
25 shares Desert at $30 per share.
5 shares North American at $85 per share—b 30.
10 shares Lucerne at $25 per share.
10 shares Baltic at $140 per share.
2 shares Gould & Curry at $5000 per foot.
20 shares Chollar at $525 per foot.
8 shares Chollar at 530 per foot.
150 shares Burning Moscow at $120 per foot—b 30.
50 shares Burning Moscow at 125 per foot.
60 shares Ophir at $1800 per foot, at 90 days.
36 shares Ophir at 1760 per foot—b 30.
24 shares Ophir at 1750 per foot—b 30.

AFTERNOON SESSION.

10 shares Lady Bryan at $53 per share.
10 shares Lady Bryan at 57 per share—b 30.
60 shares Lady Bryan at 55 per share.
20 shares Lady Bryan at 56 per share—b 30.
35 shares Lady Bryan at 56 per share.
10 shares Lady Bryan at 55½ per share.
20 shares Lady Bryan at 55 per share.
30 shares Lady Bryan at 57 per share—b 30.
25 shares Lady Bryan at 55 per share.
10 shares Real del Monte at $290 per share.
25 shares Real del Monte at 286 per share.
5 shares Real del Monte at 280 per share—b 30.
10 shares Real del Monte at 285 per share—b 30.
40 shares Real del Monte at 300 per share—b 30.
40 shares Desert at $23 per share.
20 shares Desert at 22 per share.
40 shares Desert at 21 per share.
15 shares Baltic at $150 per share.
5 shares Baltic at 150 per share.
20 shares Silver Hill at $17 per share.
20 shares Adriatic at $11 per share.
10 shares Adriatic at 12¼ per share.
10 shares Adriatic at 13 per share
85 shares Adriatic at 13½ per share.
36 shares Napoleon (copper,) at $43 per share.
20 shares Burnside at $14 per share.
30 shares Burnside at 14½ per share.
10 shares Burnside at 15 per share.
10 shares Nevada, Justice Ground, at $100 per share—s 3
10 shares Baltimore American at $50 per share.
111 shares Baltimore American at 51 per shnre—b 30.
5 shares Shetton, Argentine District, at $4 per sharo.
40 shares Chollar at $500 per foot.
20 shares Chollar at 500 per foot—b 30.
20 shares Chollar at 475 per foot.

S. F. B. OF BROKERS.

10 shares Rine Ledge, El Dorado county, at $7¾ per share.
4 shares Gould & Curry at $5000 per foot.
5 shares El Dorado at $62½ per share.
5 shares Overman at $500 per share.
5 shares Lady Bryan at $60 per share.
20 shares Baltimore American at $40 per share—b 30.
2 shares Wide West at $53½ per share.
10 shares Buckeye at 13¾ per share.
10 shares Marshall, R. R., at $15 per share.
10 shares Bullion, G. H., at $70 per share.
5 shares Gibson, S. V., at $8 per share.
15 shares Scorpion at 87½ cents per share.

WEDNESDAY, JANUARY 13.

S. F. S. AND E. BOARD.

$1,000 Legal Tender Notes at 68 per cent.
$5,000 Legal Tender Notes at 69 per cent—b 30.
$1,000 Legal Tender Notes at 67½ per cent.
10 shares Spring Valley Water at 54 per cent. on amount paid in.
20 shares Josephine, Coso, at $1½ per share.
25 shares Norton at $5 per share.
50 shares Burnside at $16 per share.
40 shares Burnside at 14½ per share—b 30.
125 shares Adriatic at $15 per share—b 30.
25 shares Adriatic at 13¾ per share.
10 shares Bajazet and Golden Era at $31 per share.
10 shares Real del Monte at $300 per share—b 30.
5 shares Real del Monte at 295 per share.
5 shares Real del Monte at 290 per share.
5 shares Real del Monte at 285 per share.
5 shares Real del Monte at 280 per share.
5 shares Real del Monte at 280 per share—b 30.
5 shares Baltic at $170 per share—b 30.
35 shares Baltic at 161 per share,
30 shares Baltic at 170 per share.
10 shares Baltic at 170 per share—s 4.
45 shares Golden Swan at $32 per share.
10 shares North American at $83 per share.
5 shares North American at 86 per share—b 30.
15 shares North American at 86 per share.
10 shares North American at 85 per share—r w.
50 shares Lady Bryan at $57½ per share—b 30.
25 shares Lady Bryan at 54¾ per share.
50 shares Union, R. R., at $5 per share.
20 shares Gold Canon at $35 per share.
3 shares Desert at $22 per share.
30 shares Desert at 23 per share—b 30.
30 shares Desert at 21 per share.
10 shares Silver Hill at $20½ per share.
18 shares Melones at $57½ per share.
15 shares Standard, R. R., at $ 7½ per share—s 90.
1 share Uncle Sam at $675 per share.
10 shares Baltimore American at $50 per share—b 30.
1 share Savage at $2800 per share.
52 shares Chollar at $425 per foot.
64 shares Chollar at 425 per foot—b 60.
144 shares Chollar at 400 per foot—b 60.
20 shares Chollar at 375 per foot—b 30.
48 shares Chollar at 350 per foot.
80 shares Chollar at 390 per foot—b 60.
20 shares Burning Moscow at $140 per foot.
20 shares Burning Moscow at 142½ per foot.
20 shares Burning Moscow at 142 per foot.
40 shares Burning Moscow at 140 per foot.
24 shares California at $1200 per foot—b 30.

AFTERNOON SESSION.

50 shares Lady Bryan at $53¼ per share.
5 shares Lady Bryan at 54 per share.
25 shares North American at $90 per share.
10 shares North American 92½ per share—b 30.
16 shares North American at 90 per share—b 30.
15 shares North American at 55 per share.
20 shares Napoleon (copper,) $47½ per share—b 30.
15 shares Wide West at $65 per share.
10 shares Wide West at 65 per share.
50 shares Uncle Sam, F. D., at $5 per share.
50 shares Tri-Union at $7 per share.
50 shares Desert at $20 per share.
40 shares Seneca at $8 per share.
60 shares Silver Hill at $20 per share.
5 shares Melones at $50 per share.
31 shares Norton at $5 per share.
10 shares Baltic at $170 per share—s 30.
10 shares Baltic at 165 per share.
10 shares Baltic at 170 per share—b 30.
10 shares Real del Monte at $290 per share—b 30.
5 shares Real del Monte at 285 per share.
15 shares Real del Monte at 270 per share.
5 shares Real del Monte at 235 per share—b 30.
5 shares Real del Monte at 232½ per share.
5 shares Real del Monte at 280 per share.
4 shares Chollar at $400 per foot—b 30.
20 shares Chollar at 425 per foot—b 60.
20 shares Chollar at 445 per foot—b 60.
60 shares Chollar at 450 per foot—b 60.
80 shares Chollar at 450 per foot—b 60.

S. F. B. OF BROKERS.

6 Shares Burning Moscow at $141 per foot.
5 shares El Dorado at $68.
25 shares Ericson, R. R., at $65.
25 shares Ericson. R. R., at 67½.

THURSDAY, JANUARY 14.

S. F. S. AND E. BOARD.

20 shares Josephine at $1 per share.
80 shares Josephine at 1½ per share.
25 shares North Potosi at $37½ per sharo,
7 shares Burnside at $16 per share.
10 shares Burnside at 17½ per share.
20 shares Burnside at 19 per share.
20 shares Burnside at 18½ per share.

5 shares Burnside at 20 per share.
20 shares Burnside at 20 per share.
10 shares Burnside at 22½ per share.
50 shares Burnside at 25 per share—b 30.
10 shares Burnside at 25 per share.
10 shares Wide West at $65 per share.
25 shares Wide West at 60 per share.
20 shares Wide West at 62½ per share.
10 shares Wide West at 61 per share.
15 shares Real del Monte at $230 per share.
5 shares Real del Monte at 240 per share—b 30.
5 shares Real del Monte at 275 per share—b 30.
10 shares Real del Monte at 270 per share.
5 shares Real del Monte at 267½ per share.
10 shares Utah at $20 per share—r w.
20 shares Adriatic at $12½ per share.
10 shares Baltimore American at $37½ per share.
10 shares Baltimore American at 38 per share.
20 shares Lady Bryan at $52½ per share.
10 shares Lady Bryan at 53 per share.
25 shares Lady Bryan at 51 per share.
5 shares Melones at $55 per share.
5 shares Melones at 53 per share.
25 shares Melones at 57½ per share—b 30.
13 shares Melones at 56 per share.
50 shares Tri-Union at $10 per share—b 30.
5 shares North American at $87½ per share.
5 shares Bombee at $65 per share.
25 shares Gold Cannon at $30 per share.
60 shares Union, R. D. at $5 per share.
15 shares Norton at $5½ per share.
35 shares Bullion G. H. at $70 per share.
2 shares Bullion G. H. at 73 per share.
10 shares Bullion G. H. at 72½ per share.
20 shares Challar at $460 per foot—b 30.
124 shares Challar at 450 per foot—b 30.
20 shares Challar at 440 per foot—b 30.
20 shares Challar at 465 per foot—b 30.
4 shares Challar at 430 per foot.
8 shares Challar at 460 per foot—b 30.
12 shares Ophir, $1650 per foot—r w.
24 shares Ophir, 1650 per foot.
10 shares Burning Moscow at $127½ per foot.
$6,000 Legal Tender Notes at 67¼ per cent.

AFTERNOON SESSION.

$5,000 Legal Tender Notes at 67 per cent—s 30.
30 shares Nevada, J. G. at 385 per share.
20 shares Nevada, J. G. at 75 per share.
30 shares Nevada, J. G. at 70 per share—b 30.
10 shares Nevada, J. G. at 70 per share.
20 shares Nevada, J. G. at 65 per share.
10 shares Lady Bryan at $53 per share.
20 shares Lady Bryan at 52 per share.
10 shares Lady Bryan at 51 per share.
10 shares Lady Bryan at 51¼ per share.
20 shares Lady Bryan at 54 per share.
11 shares Lady Bryan at 54 per share.
15 shares Lady Bryan at 52 per share.
21 shares Norton at 37½ per share.
20 shares Adriatic at $13 per share.
5 shares Sheba at $1,25 per foot.
60 shares Seneca at $10 per share.
35 shares Seneca at 9 per share.
20 shares Real del Monte at $267½ per share.
150 shares Real del Monte at 265 per share.
250 shares Real del Monte at 267½ per share.
200 shares Real del Monte at 275 per share—s 30.
30 shares Real del Monte at 270 per share.
20 shares Real del Monte at 275 per share.
10 shares Real del Monte at 285 per share—b 30.
10 shares Real del Monte at 271 per share.
30 shares Real del Monte at 270 per share.
10 shares Caledonia Tunnel at $31 per share.
20 shares Desert at $21 per share.
5 shares North American at $88 per share.
15 shares Wide West at $55 per share.
25 shares Union, R. D. at $5 per share.
50 shares Antelope at $230 per share.
12 shares Ophir at $1625 per foot.
20 shares Burning Moscow at $120 per foot.
30 shares Burning Moscow at 121 per foot.
8 shares Challar at $450 per foot—b 30.

S. F. B. OF BROKERS.

0 shares Blue Ledge, El Dorado county at $8.
5 shares El Dorado at $60—b 30.
4 shares Wide West at $60.
10 shares Utah at $25—b 30.
5 shares Real del Monte at $230—b 30.
5 shares Real del Monte at 230—b 30.
5 shares Real del Monte at 250—b 30.
25 shares Ericsson, R. R. at $70.
25 shares Ericsson, R. R. at $70.
10 shares Davenport at $6.
10 shares Raval Mexico, at $6.
20 shares Gibson, S. V. at $10.
10 shares Gibson, S. V. at 10
25 shares Lady Washington at 50c.
60 shares Baron Humboldt at $5½.
5 shares Coso at $2½.

FRIDAY, JANUARY 15.

10 shares Spring Valley water, 54 per cent on amount paid in.
1 share Savage, $2775 per share—s 30.
20 shares Norton at $7 50 per share.
20shares Norton at 8 per share.
211 shares Norton at 8 25 per share.
20 shares Burnside at $20 per share.
118 shares Burnside at 20½ per share.
20shares Burnside at 21 per share—b 30.
6 shares Antelope at $252½ per share.
5 shares Real del Monte at $275 per share—b 30.
10 shares Real del Monte at 250 per share.
5 shares Real del Monte at 245 per share.
5 shares Real del Monte at 246 per share.
10 shares Real del Monte at 245 per share.
10 shares Real del Monte at 240 per share.
15 shares Utah at $25 per share—b 30.
10 shares North Potosi at $87½ per share—b 30.
10 shares North Potosi at 36 per share—b 30.
50 shares Mount Hape at $3 per share.
15 shares Cairdonia Tunnel at $31 per share.
10 shares Blue Ledge at $8½ per share.
50 shares Buckeye at $15 per share.
50 shares Buckeye at 15½ per share—b 30.
50 shares Buckeye at 16 per share—b 30.
29 shares Adriatic at $12 per share.
40 shares Adriatic at 12 per share—b 30.
40 shares Adriatic at 11 per share.
30 shares Tri-Union at $14 per share.
40 shares Tri-Union at 10½ per share.
30 shares North American at $87½ per share.
5 shares Michigan at $40 per share—b 30.
50 shares South Burnside at $6 25 per share.
20 shares Union R. D., at $5 per share.
60 shares Josephine at $1 25 per share.
5 shares Bullion, G. H., at $70 per share.
5 shares Bullion, G. H., at 76 per share—b 80.
5 shares Bullion, G. H., at 77½ per share—b 30.
10 shares Bullion, G. H. at 71 per share.
31 shares Bullion, G. H., at 76 per share—b 30.
20 shares Lady Bryan at $55 per share—b 30.
30 shares Lady Bryan at 54 per share—b 30.
100 shares Lady Bryan at 52 per share.
20 shares Lady Bryan at 51 per share.
50 shares Lady Bryan at 51½ per share—r w.
30 shares Lady Bryan at 51 per share.
9 shares Baltimore American at $35 per share.
10 shares Baltimore American at 37½ per share—b 30.
20 shares El Dorado at $60 per share.
20shares Burning Moscow at $180 per foot—b 80.
10 shares Burning Moscow at 120 per foot.
12 shares Ophir at $1600 per foot.
12 shares Ophir at 1600 per foot—r w.
40 shares Dancy at 372 per foot.
40 shares Challar at $430 per foot.
1 shares S. S. F. Homestead at $180 per share
12 shares Melones, at $50 per share.
10 shares Melones at 57½ per share—b 30.
20 shares Shelton at $10 per share.
$5,000 Legal Tender Notes, 67 per cent—s 60.

S. F. B. OF BROKERS.

10 shares Baltimore American at $35,
10 shares Davenport at $7.
10 shares Lady Bryan at $53.
5 shares Lady Bryan at 53.
5 shares Lady Bryan at 63.
10 shares Lady Bryan at 63—s 30.
10 shares Utah at $25.
20 shares Lady Bryan at $52 per share.
30 shares Lady Bryan at 52½ per share—b 50.
25 shares Lady Bryan at 55 per share—b 30.
100 shares Lady Bryan at 53 per share.
50 shares Lady Bryan at 55 per share—b 30.
10 shares Desert at $21 per share.
10 shares Desert at 19 per share.
30 shares Desert at 20 per share.
10 shares Melones at 67½ per share.
10 shares Melones at 55 per share—b 30.
5½ shares Adriatic at $12 per share.
20 shares Adriatic at 12½ per share.
20 shares Adriatic at 13 per share.
10shares North American at $85 per share.
10 shares Tri-Union at $11 per share.
8 shares Tri-Union at 10½ per share.
5 shares Real del Monte at $240 per share.
10 shares Real del Monte at 245 per share—b 30.
10 shares Real del Monte at $240 per share.
20 shares Real del Monte at 220 per share.
26 shares Real del Monte at 225 per share.
25 shares Real del Monte at 230 per share.
30 shares Burnside at $21 per share—b 30.
15 shares Bullion at $70 per share.
40 shares South Burnside at 6 per share.
20 shares Silver Hill at $20 per share.
40 shares Challar at $450 per foot—b 30.
$5,000 Legal Tender Notes at 67¼ per cent—s 5.

SAN FRANCISCO U. S. BRANCH MINT.—The following report of the deposits and coinage at the mint in this city during the year 1863, is given from the statement of the Superintendent. The amount of gold and silver deposited and coined during each month was as follows:—

	GOLD DEPOSITED.	GOLD COINED.	SILVER COINED*	G. AND S. COINED.
January	$568,614 28	$470,000	$141,818 66	$604,318 05
February	243,397 06	250,000	47,628 71	297,628 71
March	1,016,554 13	745,000	87,827 00	832,827 00
April	1,853,559 83	1,710,000	75,691 88	1,785,691 88
May	2,329,341 77	2,170,000	36,788 68	2,206,708 63
June	2,449,800 66	2,345,000	51,368 06	2,395,368 06
July	1,957,156 67	2,440,000	103,455 04	2,543,455 04
August	1,855,459 31	1,832,000	35,632 77	1,867,632 77
September	2,490,141 78	2,530,000	21,000 00	2,551,000 00
October	2,357,606 38	2,355,000	34,309 17	2,389,309 17
November	1,741,137 62	1,835,000	26,000 00	1,861,000 00
December	285,246 61	1,071,400	44,000 00	1,115,400 00
Totals	$19,208,056 10	$19,543,400	$707,019 07	$20,251,419 97

*Coined and refined.

Amount of Double Eagles coiaed during the year, $19,331,400; Eagles, $100,000, Half Eagles, $85,000; Quarter Eagles, $27,000; Half Dollars, $458,000; Dimes, $15,750; Half Dimes $5,000.

Silver Bullion received during 1st quarter, $289,021 50; 2d quarter, $347,683 52; 3d quarter $173,129 58; 4th quarter. $71,812 11. Total, $981,646 71. Gold Bullion received from other localities than California during the year: Oregon—ozs. 143,281.87. British Columbia—ozs. 22,912.86. Nevada—ozs. 735,40. Mexico—ozs. 774.63. Mixed coins—ozs. 1886.4.

PETROLEUM AS FUEL.

Experiments have been in progress in various places for sometime past, having for their object an examination into the economy of employing Petroleum for fuel—especially for generating steam in sea going vessels, where bulk is a serious consideration in the matter of fuel. The most elaborate of this class of experiments has probably been that instituted by the Navy Department of our Government. Some six months since a commission was appointed to determine the practicability of using the above mentioned and other hydro-carbon oils for the purpose of generating steam. After five months of careful experimenting, the telegraph has briefly announced the result, which goes to show that the employment of Petroleum exhibits a great saving as compared with coal, bulk, weight and cost being considered. The commission states that steamers can be kept at sea, and under steam, a much longer time, and with less labor, and at less cost than by the use of coal.

The full report will probably be received by the next steamer, and will doubtless be read with much interest. Should these anticipations be fully realized, upon a more extensive application, and the use of Petroleum, in its crude state, come into general use, a new era will dawn upon the progress of both the merchant and war steam marine of the world. The amount of hydro-carbons on this coast are almost illimitable, and fully commensurate with the vast demand there must soon be for them in this portion of the globe, on the above supposition. We have a series of facts, interesting in this connection, which we propose to give when we have the full report of the commission before us.

LIBERAL.—The P. M. S. S. Company, during the past week, made the liberal monthly subscription of $500 to the Sanitary Fund. The treasurer of the company, moreover, was authorized to draw his check at once for the entire sum of one year's subscription in advance—thus putting $6,000 into the Sanitary Fund at a most timely moment.

AN exchange says:—Pronounce Chickamauga thus: Chic-a-may-*u*-ga, and you will have the correct pronunciation.

Report of Bids at the San Francisco Stock and Exchange Board.

NAME OF COMPANY.	PERT. SHARES.	VAL.	Saturday. BID.	Saturday. ASKED.	Monday. BID.	Monday. ASKED.	Tuesday. BID.	Tuesday. ASKED.	Wednesday. BID.	Wednesday. ASKED.	Thursday. BID.	Thursday. ASKED.	Friday. BID.	Friday. ASKED.
WASHOE STOCKS.														
Ophir	1,400	16,800	300	1,500	—	1,850	1,875	1,700	1,750	—	1,740	1,620	1,625	1,600	1,620
Gould & Curry	1,200	4,800	500	4,925	5,000	—	5,025	—	5,000	4,900	5,000	4,925	5,800	4,975	5,100
Savage	800	800	2,000	—	2,750	—	2,750	2,710	2,850	2,750	2,800	2,775	2,850	—	2,850
Challar	1,400	5,600	800	550	570	550	555	510	540	360	375	435	455	425	430
Potosi	1,400	2,800	500	1,050	1,175	—	—	—	1,125	1,000	1,250	—	1,200	—	1,250
Hale & Norcross	400	800	500	875	925	—	—	800	950	—	900	—	875	700	900
Sierra Nevada	2,000	3,000	500	76	95	—	97½	80	90	80	90	85	90	70	90
Daney	2,000	800	60	57½	70	60	65	60	65	50	65	—	—	72	75
Burning Moscow	4,100	4,100	500	101	105	115	118	125	130	136	142	127½	140	125	130
North Potosi	2,000	2,000	250	—	55	—	50	—	49	20	44	37½	39	34	35
Charles Cany	1,800	1,800	30	9	10	9	—	8	—	9	—	9	12	10	12
Iowa	1,200	1,200	1,000	—	50	—	—	—	50	30	45	—	50	—	50
El Dorado	1,600	1,600	500	53	60	65	70	50	70	—	65	50	54	—	50
Norton	1,600	1,600	50	5	6	—	—	—	5½	—	—	5½	5½	6½	8½
Burnside	2,800	2,800	500	10	12	11	18	—	16½	14½	15	22½	24½	20½	22
Adriatic	—	—	—	—	—	—	—	—	—	—	—	13	13	10	11
Pride of the West	1,400	1,400	100	75	80	—	75	—	82½	65	80	50	80	65	78
Imperial	134	4,000	500	112	—	—	110	—	112	—	—	—	135	110	—
Crown Point	600	1,200	100	—	1,000	—	—	—	—	—	—	—	—	—	—
Manhattan	—	—	—	—	—	—	—	—	—	—	—	8	8	—	8
Seneca	—	—	—	—	—	—	—	—	—	—	—	8	10	—	—
ESMERALDA.															
Wide West	1,400	1,400	2,600	49	52½	51	52½	—	53	51	56	57½	60	53	50
Antelope	1,200	1,200	500	230	275	230	300	240	275	240	275	—	250	252½	275
Esmeralda	1,600	1,600	1,000	—	15	—	15	6½	12	—	—	—	—	—	12½
Real del Monte	4,400	4,400	400	325	340	300	325	260	265	—	265	265	270	235	245
Utah	1,600	1,600	250	17	18	17	18	17	20	18	—	20	21	22½	30
Silver Hill	3,000	3,000	500	13	14	14	16	15½	—	20½	20½	20	22½	14½	21
Nevada	600	1,200	250	—	—	—	—	—	—	—	—	—	—	—	—
Falls of Clyde	6,000	6,000	100	—	4	—	2½	—	2	—	3½	—	2¾	—	3
Bamboo	600	600	500	—	—	—	—	57½	—	—	—	65	75	—	80
COSO.															
Josephine	9,600	4,800	2,500	2¼	2¾	—	2	—	2	1¾	2¼	1	1½	1	1¼
Willow Springs	2,700	2,700	100	1	2	1	1¾	1	2	—	2	1	—	1½	2
Coso	2,600	3,600	600	—	8	—	—	—	—	—	—	8	—	—	8
COPPER.															
Napoleon	—	—	—	40½	42¾	40½	—	42	45	43	45	43	45	45	50
Josephine	—	—	—	—	—	—	5	—	5	—	—	—	—	—	—
CALIFORNIA.															
Laarel Hill	—	—	—	—	6	—	—	—	—	—	5	—	—	—	—
Rhodes Riggings	—	—	—	6	20	—	—	—	—	—	—	—	—	—	10
Fellowes	2,500	2,500	100	—	—	—	—	—	70	—	70	—	65	—	—
De Soto	1,930	1,930	100	20	25	—	25	—	25	—	25	—	25	15	24
MISCELLANEOUS.															
Legal Tender Notes				67¼	68¼	—	—	67¼	68¼	67½	68	—	67¾	67	—
Cal. Slate Bonds, 7's				—	—	—	—	—	—	—	—	—	87½	87½	—
San Fran Bonds, 10's				99	—	—	—	—	—	—	—	99	—	99	—
S. F. Bonds, 1855, 6's				70	—	—	—	—	—	70	—	70	—	—	68
S. F. Bonds, 1858, 6's				—	70	—	—	—	—	—	—	—	70	—	70
S. F. Bonds, 1858, 7's				—	81	—	—	—	—	—	—	—	81	—	81
Sac. City Bonds				28	—	28	—	28	—	—	—	—	—	28	—
Sac. Co. Bonds, 6's				—	—	—	50	—	—	—	50	—	50	—	80
Marysville Bonds, 10's				75	—	—	—	—	—	—	—	75	—	75	—
Stockton City Bonds				75	80	—	—	—	—	—	—	75	80	75	80
Yuba Co. Bonds 10's				82½	90	—	—	—	—	—	—	82½	90	82½	90
Santa Clara Co. 7's				75	78	—	—	—	—	—	—	75	78	75	78
Butte Co, Bonds, 10's				60	80	—	—	—	—	80	—	—	80	—	80
San Mateo Co. 7's				74	78	—	—	—	—	—	—	74	78	74	78
Cal. Steam Nav. Co.				50	—	50	—	61	—	50	—	60	—	50	—
State Telegraph Co.				24½	26	25	26	23	—	24½	26	21½	26	24	—
S. F. Gas Company				84	84½	84	—	—	—	84	—	78	—	84	—
Sacramento Gas Co.				—	60	—	62	—	—	—	—	—	62	—	62
S. F. C. Water Wks.				—	50	46	50	45	50	45	50	45	50	45	49½
Spring Valley W. Co.				53	—	62½	—	53	55	53	54	53	—	61	—
Virg. & G, H. W. Co.				75	83	75	83	75	88	75	83	76	88	90	—

A mansion, completely furnished, was presented, to Bishop Simpson, of the Methodist Church in Philadelphia, on Thanksgiving Day. The mansion is double, with side parlors, each illuminated with six light chandeliers, a hall and vestibule in the centre, extensive back buildings, fine library, sitting room, reception room, etc,

Stewart, the New York merchant prince, will sell $30,000,000 of goods this year. The September sales of cloths for men's wear alone were $700,000, and for the last year in that department alone will be from six to seven millions.

It is estimated that over $100,000,000 in greenbacks are hoarded and in use in the South and Southwestern States, and there is said to be a continual flow of them in that direction for the purchase of cotton and other produce.

Struck it.—We are reliably informed that the Pennsylvania Company, at Brown's Valley "struck it" on Friday—that is, found at the depth of 160 feet much richer rock than formerly. Good cheer for the Pennsylvania.—*Marysville Appeal.*

If you have a trouble, keep it to yourself. A jolly fellow can raise a half eagle any time. A dismal individual, on the contrary, would not negotiate a loan of one and ninepence, if his life depended on it. Be cheerful, therefore, for your own interest.

Poverty is the only load which is the heavier the more loved ones there are to assist in supporting it.

Talking shapes our thoughts for us; the waves of conversation roll them as the surf rolls the pebbles on the shore.

The Hartford ladies have set the example of discontinuing the practice of sweeping with their dress-Skirts to the ankle and balmoral boots are the style.

A few days since a miner named Anderson Claud was crushed to death by a cave of earth in his claim, on Goodyear's creek, Sierra county.

The total value of taxable property in Gold Hill, N. T., is $2,570,243.

Rockland, Maine, has furnished three Generals for the army—Berry, Ames and Tillman.

"In wine there is truth," says the Latin proverb; but the Chemist have discovered that wine is adulterated with *lye.*

If there is a heaven on earth, it is on a soft couch by your fireside, your wife on one side, and a smiling baby on the other, a clear conscience, and a knowledge that you are out of debt, and don't fear the Sheriff.

The Marquis of Westminister's income is $5,000 a day, and that of the four leading Rothschild's $1,000 an hour! Precious hours, those.

An "Irish Gintlemau," perhaps a king, has been discovered by some laborers near Dromeliby, Ireland. His stone coffin was nine feet long.

An irritable man is somewhat like a hedgehog rolled up the wrong way, and pierced by his own prickles.

The Chinese in Placerville are building themselves a temple.

In San Francisco, greenbacks are worth 2½ cents more per dollar than in New York.

The Catholics of Mokelumne Hill are about to erect a large new church at that place.

The San Juan *Press* says that the Sonora *Flag* is to be removed to San Francisco, and issued as a daily evening paper.

The Cashmere goat furnishes but three onnces of wool to a fleece, and it requires some half dozen fleeces to make one shawl.

It is said that while the shoes of the white soldiers range from No. 5 to No. 11 in size, those of the negro regiments will range from No. 11 to No. 15. These are the chaps to tackle the rebellion and put their foot on it.

The columns of a newspaper often support the world's greatest temple domes; no blind Samson should ever get within arm's length of them.

"Where is the east?" inquired a tutor one day, of a very little pupil. "Where the morning comes from," was the prompt and pleasaut auswer.

Some of the English peasantry took the recent earthquake as a sign that the world was coming to an end, and packed up to emigrate to America to avoid the calamity.

Remarkable Phenomena.—Early on Wednesday morning last, a flour-mill was seen "running" at a rapid rate on Pine street. "driven" by an engineer. The strange sight, it is said attracted many spectators.

A youth with a turn for figures had five eggs to boil, and being told to give them three minutes each, boiled them a quarter of an hour altogether.

Miscellaneous Advertisements.

MINERS' FOUNDRY
—AND—
MACHINE WORKS,
First street, between Howard and Folsom streets,
SAN FRANCISCO.

Every description of iron and brass machinery, the **Best** and **Most Economical**, manufactured in the State of California, will be furnished with dispatch at the Miners' Foundry and Machine Works, as:

Steam Engines and Boilers, Flour, Saw and Quartz mill machinery, Mining Pumps, Amalgamators, Retorts, Etc., Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections, designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

☞ Parties desiring to test their ores practically, in small quantities will be afforded ample facilities, free of cost.

All parties desiring accurate and highly finished drawings and Superior Machinery, at most reasonable rates are cordially invited to call before contracting elsewhere.

HOWLAND, ANGEL & KING.
San Francisco, February 23, 1863. tf.

PALMER, HANSCOM & CO.,
GOLDEN STATE IRON WORKS,
No. 19, First Street, San Francisco,
Furnish Castings and Machinery of all kinds,
Also Genuine White Iron Shoes and Dies.
PALMER, HANSCOM & CO.

To Quartz Miners.

KNOX'S IMPROVED AMALGAMATING PAN
WITH PALMER'S PATENT STEAM CHEST.

The above combination secures the most complete amalgamation of the precious metals of any process now known. By it steam is introduced in the most effective and economical manner, while it is peculiarly adapted to the catching of floating gold and silver, known to be otherwise lost. Made exclusively by
PALMER, HANSCOM & CO.,
Golden State Iron Works,
Nos. 19 and 21 First Street, San Francisco.

The public are informed that Letters Patent have been granted the undersigned upon Steam Chest False Bottoms for the inside of Amalgamating Pans or Tubs, and are cautioned against making, buying, using or selling the same without his consent.
tf W. A. PALMER.

Sacramento Iron Works.

I STREET, BETWEEN FIRST AND SECOND STREETS,
SACRAMENTO.

GOSS & LOMBARD.....Proprietors.

Manufacturers of Steam Engines, Machinery for Saw, Flour and Quartz Mills, Horse Powers, Windmills, Car Wheels, Suction and Force Pumps, Cast Iron Rifles and all kinds of House Castings, at reduced prices. Gas pipe of all sizes, and all kinds of Brass and Iron Steam Fittings, with Hemp and Rubber Packing, constantly on hand. Wrought Iron Work and all kinds of Brass Castings done to order.

We are the Sole Agents in this State for the celebrated Worthington Pump, an assortment of which we keep constantly on hand. We have just received from the East a fine assortment of Cast Iron Fence Patterns, suitable for yards, balconies, cemetery lots or graves. We shall continue to do our work in the best manner and at the LOWEST CASH PRICES, hoping thereby to receive a just share of public patronage. 1-3m

JOHN F. GALLAGHER.....JOSEPH H. WEED.
GALLAGHER & WEED,
BRASS AND BELL FOUNDRY
And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING, DONE WITH NEATNESS AND DISPATCH.

Church and Steamboat Bells, of all sizes, made to order. Engineers' Gouges made and hung in the best manner. Bank, Vault, Store and Prison Locks, also brass Padlocks and Shop Locks of various patterns, on hand and made to order.
☞ Particular attention given to casting Rudder Braces and Ship Work in general.
☞ All Jobs promptly attended to.—Prices moderate. ☜
No. 125 First Street, opposite Minna, next door to Pacific Foundry.
[Removed from Oregon street, between Front and Davis.]
j2tf

LEWIS COFFEY. J. S. RISDON.
LEWIS COFFEY & RISDON,
Steam Boiler & Sheet Iron Works.

The only exclusively Boiler making Establishment on the Pacific Coast, owned and conducted by Practical Boiler Makers. All orders for New Work, the repairing of Old Work, executed as ordered, and warranted as to quality.

Old Stand, corner Bush and Market Streets. Opposite Oriental Hotel, San Francisco, Cal.

Vulcan Iron Works Company.
P. Torquet,.....Manager.
Steam Engine Builders and Boiler Makers,
Iron Founders and General Engineers,

Pumping, Hoisting, Mining and Quartz-Crushing Machinery. Shoes and Dies of the hardest iron. Russia Iron Punched Screens, Steamboat Machinery, Saw, Flour and Sugar Mills. High and Low Pressure Boilers of all styles. Jonval and other Turbine Water Wheels with latest improvements.
tf No. 187 & 139 First Street San Francisco.

PORTLAND BOILER WORKS.
MOYNIHAN & AITKEN,
BOILER MAKERS AND SHEET IRON WORKERS,

N. B. All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission, between Beal and Fremont Sts., San Francisco.
j29-tf

WANTED,
Gold Quartz suitable for Cutting Jewelry.
By **FRONTIER & DEVIERCY.**
437 Pine Street, San Francisco.
au31tf.

Must be seen to be Appreciated!

THE FLORENCE!

A GREAT IMPROVEMENT!

The Celebrated
NEW SEWING MACHINE
is acknowledged to be
THE BEST IN THE WORLD!

IT MAKES FOUR DISTINCT STITCHES!
IT FEEDS THE WORK EITHER WAY!
WILL SEW OVER THE HEAVIEST SEAMS,
WITHOUT CHANGE OF TENSION!
IT SELDOM, IF EVER, DROPS A STITCH!
IT SEWS WITH SILK OR COTTON
THREAD EQUALLY WELL!
IT RUNS LIGHTLY, SEWS RAPIDLY
AND IS ALMOST NOISELESS!
IT DOES THE HEAVIEST OR
FINEST WORK WITH EQUAL FACILITY!
IT MAKES A STICH ALIKE ON BOTH SIDES OF THE FABRIC, USING ONLY HALF THE QUANTITY OF THREAD NECESSARY FOR THE OLD FASHIONED CHAIN-STICH MACHINES!

While it possesses all the good qualities of others, and has many advantages over any and all of them, the FLORENCE is sold at corresponding prices with other first-class Machines. We
WARRANT EVERY MACHINE
To be all that we claim for it, and will give a WRITTEN WARRANTY if required.

AGENTS WANTED in all the principal cities and towns on the Pacific coast.
Send for Circulars and samples of sewing.

DON'T BUY A SEWING MACHINE UNTIL
YOU HAVE
SEEN "THE FLORENCE!"

SAMUEL HILL, General Agent.
111 Montgomery street, between Bush and Sutter, San Francisco, California. j2-3m

Pacific Mail Steamship Company.

THE FOLLOWING STEAMSHIPS WILL BE DISPATCHED FROM SAN FRANCISCO IN THE MONTH OF JANUARY, 1864.

Jan. 4—GOLDEN AGE,.....Wm. F. Lapidge, Commander.
Jan. 13—ORIZABA,.....E. T. Farnsworth, Commander.
Jan. 23—CONSTITUTION,.....J. T. Watkins, Commander.

From Folsom street Wharf, at nine o'clock A. M., punctually,

FOR PANAMA.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company.

A. B. FORBES, Agent P. M. S. Co.,
j1 Cor. Sacramento and Leidesdorff Sts., San Francisco.

SQUARZA'S PUNCH.

FIRST PREMIUM

AT THE SACRAMENTO AGRICULTURAL STATE FAIR FOR THE YEAR 1862.

ALSO; FIRST PREMIUM

At the San Francisco Bay District Agricultural Fair, 1862.

Manufactory, Wholesale and Retail,
No. 44 Leidsdorff street, opposite the What Cheer House,
j2-tf San Francisco.

GEO. A. METCALF. D. S. HUTCHINSON.
METCALF & HUTCHINSON'S
PHOTOGRAPHIC GALLERY,
650 Washington St. Three doors below Kearney, San Francisco.

Having refitted the above rooms the firm are now prepared to furnish the public with a superior style of Picture, at a lower price than ever before offered in the city.

CARD PICTURES.

As we have every facility for producing these beautiful pictures, in all their different varieties, we have reduced the price to

THREE DOLLARS PER DOZEN!

Large sized Photographs $3—Extra copies $1 each.

AMBROTYPES in all Styles and Prices.

Old Pictures copied with care and accuracy, in any style desired. Particular attention paid to pictures of children.

Pictures painted in Oil or Water Colors, and retouched in India Ink by a competent artist. aug.

D. NORCROSS,

MILITARY GOODS OF ALL DESCRIPTIONS. NAVY TRIMMINGS AND EMBROIDERIES. REGALIA FOR ALL ORDERS.
aug17-tf Masonic Temple, No. 6, Post Street.

EL PASO DISTRICT, LOS ANGELES COUNTY,
Mining Agency.

C. W. TAPPEN,.....General Agent.
"Headquarters," Mesquit Springs.

Will attend to any business connected with these mines for a reasonable consideration.

Letters of enquiry, containing Revenue or Postage Stamps to the value of fifty cents, and enclosing an addressed envelope for reply, will be promptly attended to.

The subscriber has a carefully prepared map, (and specimens,) of each lode in the district, a portion of many of which are for sale at a very low figure.

For further particulars he would refer to J. Burnet, Esq., 425 Davis St., San Francisco, Cal. C. W. TAPPEN.
El Paso, June 21, 1863. au31-tf

Miscellaneous Advertisements.

N. LOMBARD INGOLS,

Accountant and Mining Secretary.

NO. 10 GOVERNMENT HOUSE, CORNER OF WASHINGTON AND SANSOME STREETS, SAN FRANCISCO.

OFFICE OF THE
SANTA CRUZ PETROLEUM OIL WORKS,
GEM SILVER MINING CO., (REESE RIVER, N. T.)
LAUREL G. & S. MINING CO., COPALA, SINALOA, MEX.

N. B. Mr. Ingols will pay particular attention to the adjustment of complicated accounts, Commercial and Incorporated Companies' Books, to drawing up Commercial writings and to Engrossing legal or other documents with neatness and dispatch. An experience of more than twenty-five years in every branch of his profession is a guaranty of his practical and thorough acquaintance with its duties. He has the privilege of referring to some of the leading mercantile houses and legal practitioners on the Atlantic and Pacific sides, for testimony of his business and clerkly abilities. jltf.

W. W. HANSCOM,

Steam and Mechanical Engineer. Designs furnished, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc., etc. Agent for McKenzie's Patent Cupola and Blower.

At the Golden State Iron Works,
First Street, San Francisco.
tf.

THEODORE KALLENBERG,

Maker of Models for Inventors.

MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.
No. 418 Market street, San Francisco. n7-tf

FREDERICK MANSELL.

Mechanical & Architectural Draughtsman,

No. 422 California street, corner of Leidsdorff.

Drawings of Models made for parties applying for patents at Washington or London. mar23-tf.

WM. H. MEAD, THEODORE VAN TASSEL

MEAD & VAN TASSEL,

HATTERS,

Montgomery St., corner of Commercial,
SAN FRANCISCO.

TO OUR FRIENDS AND THE PUBLIC GENERALLY:—HAVING purchased the entire interest of Messrs. Fishers & Co., in this city, we shall, on the 1st. day of May assume the management of the

HAT EMPORIUM

so long conducted by that firm.

MR. WILLIAM H. MEAD, for the last seven years salesman with Messrs Fisher & Co., respectfully solicits a continuance of the patronage so long and liberally bestowed upon the old House, feeling entire confidence in our ability to suit in every particular.

MR. THEODORE VAN TASSELL, for eight years with Messrs Le Gay & Co., would be pleased to see his friends at his new place of business.

The long practical experience of Messrs. Mead & Van Tassel in the Trade justifies them in saying that their work cannot be excelled either in finish or durability. Having perfected arrangements, we shall be in constant receipt, by every steamer, of soft goods of the very finest of FRENCH AND AMERICAN MANUFACTURE. Our Stock on hand is superb.

Call and examine, and judge of the merits of our claim to the title of "LEADERS OF FASHION."

Respectfully, MEAD & VAN TASSELL.
no2-tf. Montgomery street, cor. Commercial.

PUMPS! PUMPS!

HARRISON'S

California Lift and Force Pump,

WITHOUT VALVES OR PACKING,

Suitable for Mines, Fire Engines, Wrecking or Irrigating. This is the Cheapest, Lightest and most Durable, and least liable to get out of order of any Pump yet invented.

ALL SIZES,

Capable of throwing from ONE HUNDRED to FIVE THOUSAND Gallons per minute. For sale by
C. H. HARRISON, Phœnix Oil Works,
je15-tf 517 Front Street, San Francisco.

A New and Valuable Book.

PROCESS OF SILVER AND GOLD EXTRACTION, BY GUIDO Kustel, Mining Engineer and Metallurgist, former manager of the Ophir Works, &c.; 350 pages octavo illustrated.

This admirable work has met with the highest commendations from the Press and Scientific men, as a clear and able exposition of the science as practised in California and Nevada Territory. It is written for the people in good plain English and finely illustrated.

Price—post paid—Cloth $6; Sheep $7.
A. ROMAN & CO.,
Booksellers, Importers and Publishers,
417 and 419 Montgomery street,
no30-1f San Francisco.

Mining Laws and Forms

JUST PUBLISHED, BY H. H. BANCROFT & CO., REINO A compilation of the Statutes of this State relating to Mining Corporations, Assessments, etc., with a digest of decisions of the Supreme Court and Forms of the Incorporation of Companies. Compiled by H. B. Congdon. 12mo., flexible cloth. $1,50. For sale at all the Bookstores. sep14-tf.

Giffard's Injectors,

FOR SUPPLYING OILERS WITH FEED WATER WITHOUT Pumps. No Mill or Mining Company should be without one of these valuable Instruments. Send for a Circular.

Corner of Pine and Front Streets, San Francisco.
je22-tf DAVID STODDART, Agent.

Patronize Home Manufacturers!!!

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TRUNK AND VALISE MANUFACTURER, 397 SANSOME ST., under Tehama House. Trunks and Valises, Wholesale and Retail. Fine Sole Leather Trunks, Valises, and a fine assortment of LADIES' TRUNKS constantly on hand. Trunks covered and repaired.
au10

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PHŒNIX
INSURANCE COMPANY,

Of Hartford, Conn.,

DEVOTED TO FIRE INSURANCE EXCLUSIVELY.

Cash Capital,	**$400,000 00**
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SAN FRANCISCO.

Premiums received by the "PHŒNIX" for insurance in this State are retained for investment in California Securities, and together with $50,000 already invested in Bonds, are held subject to claims for loss under California Policies, making

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A HOME INSTITUTION.

Backed by a sound *paid up capital*, the prestige of years, and an extended and valuable experience in the business.

Losses honorably adjusted and promptly paid in United States Gold at points where they occur.

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Policies issued and renewed in this sterling and popular Company, on all classes of desirable property, at rates as low as solvency and fair profit will admit of.

J. FRANK, City Solicitor. L. B. DELL, Resident Agent
1-3m

Fire Hose! Fire Hose!!

J. P. D. WILKINS,

THE CELEBRATED HARNESS MAKER OF STOCKTON, MAKES Fire Hose, from the best material, and WARRANTED at a trial of the Weber Steam Engine Co., No. 3, of the City of Stockton. This Hose is manufactured at his establishment, and known to stand a pressure of 125 pounds to the square inch; as certified by the Chief Engineer.

ALSO FOR SALE,

All kinds of HARNESS and SADDLERY, at the lowest cash prices. Repairing done promptly, one door west of the Main Street Simble, Stockton, Cal. oct12 tf.

HEYER BROS., 76 and 78 Federal Street, BOSTON.
HEYER BROS., 406 Battery Street, SAN FRANCISCO.

HEYER & CO.,

IMPORTERS OF

AMERICAN AND EUROPEAN FANCY GOODS, TOYS AND MUSICAL INSTRUMENTS;

ALSO, SOAPS, PERFUMERY, HAIR AND TOOTH BRUSHES, Port Folios, Portmonnaies, Ladies' Bags, Photograph Albums, Cutlery, Willow and Parian Ware, Children's Carriages, etc. Our Stock of Violin, Guitar and other Strings is very large. Our foreign Goods are selected by one of the firm, and the American by the Boston House (established in 1824.) We have the sole Agency for

HALLET & DAVIS' BOSTON PIANOS,
SMITH & BROS' HARMONIUMS, AND
TREAT & LINSLEY'S MELODEONS.

The Hallet & Davis Pianos are each supplied with their Patent Suspension Bridge, which is a decided improvement. It gives a full and clear vibration in the upper octaves, producing a quality of tone unequalled in firmness and purity. Our Melodeons and Harmoniums are of the best quality, and warranted to give satisfaction.
3m.

THE RAILROAD HOUSE.

Nos. 318 & 320 Commercial and Clay Sts,
SAN FRANCISCO.

H. T. FELTON,.....Proprietor.

THE ABOVE HOUSE IS A FIRE-PROOF BUILDING, WITH Granite Front, and kept on the European Plan, with board and lodging by Day or Week to suit the convenience of our Patrons.

The rooms are handsomely Furnished, supplied with Patent Spring Beds, and Hair Mattrasses, affording very superior accommodations for families or single persons.

The Table is supplied with the best the market affords at prices to suit the times.

The Rail Road House Coach is always in attendance at the Steamers to convey passengers and their baggage to the House **Free of Charge.** **The House is open all Night.**
j2-tf

INTERNATIONAL HOTEL.

Jackson Street.....San Francisco.
[A FEW DOORS ABOVE MONTGOMERY.]
Fire-proof Brick building. Most convenient to the Steamer's Landing, Business ots., and places of Amusement. Open all night. City Railroad Cars Pass the Door.

Reduction in Prices.

FINE BATHING ROOMS ATTACHED TO THE BARBER SHOP. Warm and Cold shower Baths Free to Guests. Thoroughly renovated and newly furnished this Spring. Every room opens to the Light and Air. Each room is furnished with a first quality Patent spring Bed and Hair mattrasses. The International offers to guests the greatest number

AND BEST FURNISHED FAMILY ROOMS;

And SETS AS GOOD A TABLE as any House in the City.

I am determined that the INTERNATIONAL shall be the most comfortable, best regulated, and in all respects superior to any like establishment in the State, and shall aim to merit a continuance of the popular favor it has enjoyed heretofore. It will be conducted on Temperance Principles,
1-tf F. E. WEYGANT, PROPRIETOR.

Agency for the Purchase and Sale
—OF—
MEXICAN MINING STOCKS,
At No. 411 Clay Street, San Francisco.

OFFICE OF THE PENA AND LA MARRONENA SILVER MINing Companies, San Antonio District, Lower California.

All persons are invited to call and examine Ores from the above mines.
jltf WM. FAULKNER.

REYNOLD'S

Patent Cut-Off and Governor,

For Steam Engines.

127 of these Invaluable Machines

ARE NOW IN USE

In California and Nevada Territory, giving a perfectly regular motion and

Saving 20 to 75 per cent of the Fuel.

Steen's Improved Governor

IS THE CHEAPEST, SIMPLEST AND QUICKEST TO ACT AND least liable to get out of order of any Governor in use. It can be seen in operation at the Golden State Iron Works, at the Stone Breaker, foot of Montgomery Street and at the Sugar Refinery, 8th Street, San Francisco.

Steam Engines, Boilers, Pipes,

Hydraulic Presses, Shafting, Pulleys, Etc., Etc., bought and sold at the best market rates.

Anti-Incrustation Powder,

A sure remedy for Scale in Steam Boilers, without injury to the Iron. In use for the past EIGHT years.

MACHINERY MADE AND REPAIRED.

— REFER TO —
Sugar Refinery, San Francisco,
Cottell & Co., San Jose,
L. A. Booth, Esq., Virginia City,
And 2,000 others in the United States.

E. T. STEEN.
1-tf Nos. 37 & 39 Fremont Street and 42 & 44 Beal Street.

Owen's River Canal Company.

CAPITAL STOCK.....$1,000,000.

10,000 Shares.....$100 per Share.

A PORTION OF THIS STOCK IS NOW OFFERED TO THE PUBlic, and recommended as an investment.

Full Paid and Unassessable Stock,

Also Assessable Stock, can be obtained of A. J. DOWNER & CO., the authorized Agents of the Company,
406 Montgomery Street.

President.....R. S. WHIGHAM.
Secretary.....W. FISK HITCHCOCK.
Treasurer.....MONTGOMERY GODLEY.
Superintendent.....WILLIAM FLEMING.
Engineer.....J. E. CLAYTON.

TRUSTEES:

R. S. WHIGHAM, formerly of Whigham's Mill,.....Nevada City.
WILLIAM FLEMING.....of San Francisco.
SPIER RIDDEL.....Paying Teller of Parrott & Co's.
ISAAC SWAIN.....of A. J. Downer & Co.
WILLIAM P. PRATT.....of Nash & Fogg.

Office of the Company 328 Montgomery Street. jltf

T. C. SANBORN & CO.

Stock Brokers,

No. 630, Montgomery Street,.....San Francisco.

OPHIR SILVER MINING STOCK,
GOULD & CURRY MINING STOCK,
CHOLLAR MINING STOCK,
CALIFORNIA STEAM NAVIGATION COMPANY'S STOCK,

BOUGHT AND SOLD.
jltf.

Owen's River Canal Company.

FOR SALE, FOR ACCOUNT OF THE COMPANY, 7,000 SHARES of the above stock, at $1 per share. It is confidently presented to the publicas the best investment, for the price, now offered in this market.
Office of the Company No. 328 Montgomery street. 1tf

Removal.

OFFICE OF THE PACIFIC METALLUROICAL OFFICE IS REmoved to 509 Sacramento street. Having enlarged our works at North Beach, we are now enabled to reduce from 10 to 15 tons of Silver or Gold rock per day.

Gold and Silver ore, and Sulphuret Assayers', or Silversmiths' sweepings reduced or purchased.

COPPER OARS—Highest market rates advanced in cash, for Shipments. S. C. BRADSHAW, Agent,
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HEPBURN & PETERSON'S.

AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION OF THE Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos. 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machines now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zophyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

nov8 3m* HEPBURN & PETERSON.

TREMONT HOUSE.

418 and 420 Jackson Street [a few doors below Montgomery,]
SAN FRANCISCO, CALIFORNIA.

THIS FINE, FIRE-PROOF BUILDING OFFERS MANY ADVANtages to the traveler for convenience. It is only half a block from the Post Office and Custom House, and about the same distance from the principal places of Amusement.

The City Railroad Cars pass the Door. The House is conducted on Temperance Principles, which secures to our guests QUIET.

The prices for board and Rooms are very moderate—by the day, meal or week. WE SOLICIT A CALL FROM ALL.
F. E. WEOANT, Proprietor.

For the accommodation of my many guests I have taken and refurnished the INTERNATIONAL HOTEL, and will carry on the two houses in connection, so that travelers wishing to put up at either house, may take the Tremont or International Hotel Coach and be taken to either House with their baggage, FREE.
tf. F. E. WEOANT.

Mining Notices.

Great Central Mining Company.—Notice is hereby given that by order of the Board of Trustees of the Great Central Mining Company, pursuant to the By-Laws thereof and the laws of the State of California, there will be sold at public auction, on WEDNESDAY, February 10, 1864, to the highest bidder, at the auction rooms of Jerome Rice & Co., 327 Montgomery St., San Francisco, so many shares of said Company standing in the names of the following persons as will pay the amount due for assessments, together with costs of advertising and sale:

Names.	Shares.	No. Assts.	Amount.
Jas S Tenable	100	1 2	$50 00
G W Melone	10	2	2 50
M Devlin	20	2	5 00
W C Smith	5	2	1 25
P H Lovell	25	2	6 25
E H Rockwell	50	2	12 50
Max Strobel	600	1 2	300 00
Jas P Newcomb	100	1 2	50 00

2-1m H. C. KIBBE, Secretary.

Enterprise Copper Mining Co.—Office, 528 Montgomery St., San Francisco. Notice is hereby given that there will be sold at the office of the Enterprise Copper Mining Company, on SATURDAY, January 30th., 1864, at 10 o'clock, A. M., so many shares of the Capital Stock of said Company as will be necessary to pay all assessments due and delinquent, December 10th., 1863, standing in the names of the following parties:

	Share.	Am't due.
William Harris	400	$100 00
J. P. Dameron	100	20 00
John M. Cannon	25	7 50
Thomas Donahoe	15	4 50
John Cochran	25	7 50
G. W. Melone	01	3 00

By order of the Board of Trustees.
M. J. ELMORE, Sec.
1m

Enterprise Copper Mining Company.—Office 528 Montgomery street, San Francisco. At a meeting of the Board of Trustees of this company, held December 12th, an assesment of ten cents per share was levied, payable immediately, and another assessment of eight cents per share, payable January 1st, 1864, and another assessment of eight cents per share payable February 1st, 1864, all payable in U. S. gold coin, to Thomas S. Levy, the Treasurer, at Lincoln, Placer county, or to the Secretary, at the office of the Company. By order of the Board of Trustees.
M. G. ELMORE, Secretary.

Occidental Copper Mining Company, Office northeast corner Pine and Montgomery streets, San Francisco, December, 29th, 1863.—An assessment of Thirty Cents per share was this day levied on each and every assessable share of the capital stock of the Occidental Copper Mining Company, payable immediately to the Secretary, in U. S. gold coin. By order of the Board of Trustees
EDW. BARRY, Sec'y.

Fair Haveo Gold and Silver Mining Company, Cortes District, Reese River.—At a meeting of the Trustees of the above Company, held Dec. 29th, 1863, an assessment of Seven Cents per share was duly levied and made payable immediately at the Office of the Secretary, 400 Front Street.
W. H. DANIELS, Secretary.

Hudson Gold and Silver Mining Company, (Devil's Gate District,) office No. 804 Montgomery street, San Francisco, December 19th, 1863.—At a meeting of the Board of Trustees of this Hudson Gold and Silver Mining Company, held this day, December 19th, 1863, an assessment of One Dollar per share was duly levied on each and every share of the Capital Stock in said Company, due and payable immediately, in United States gold coin to the Secretary, at the office of the Company, in this City, or to A. W. Hale, Esq., Superintendent, at Virginia City.
j2-1m I. LAWRENCE POOL, Soc'y.

Sarah Frances Gold and Silver Mining Company, Markleville.—Assessment No. 7. of Fifteen Cents per share, was levied by the Board of Directors, December 28th, 1863 payable to FRANCIS V. SCUDDER, Sec'y.
Rooms of the Company, 9 and 10, northeast corner of Montgomery and Pine streets. j2-1m

Scorpion Silver Mining Company.—Notice is hereby given, that by a resolution adopted by the Board of Trustees of the Scorpion Silver Mining Company, at a meeting held on this day, an assessment of twenty-five (25c.) cents was levied upon every share of the Capital stock of said company, to be paid in gold coin of the United States, on or before the 29th day of January, 1864, at the office of the company, No. 617 Clay street.
W. H. MARTIN, Sec'y.
San Francisco, December 29, 1863. j2-1m

Conqueror Gold and Silver Mining Company.—Office southeast corner of Front and Sacramento streets, San Francisco December 29th 1863—At a meeting of the Trustees of the Conqueror Gold and Silver Mining Company held this day, an assessment of Twenty-five (25c.) Cents per share on each and every share of the capital stock of the said Company was levied, now due and payable immediately in U. S. gold coin, to the Secretary, at the above named office. By order of the Board of Trustees.
j2-1m WM. W. KNIGHT, Sec'y.

Carrie Copper, Gold and Silver Mining Company.— The First Annual Meeting of the Stockholders of the Carrie Copper, Gold and Silver Mining Company, will be held at the Company's office, No. 528 Clay street, on MONDAY, February 1st, 1864, at 3 o'clock P. M., for the election of officers and the transaction of such other business as may come before it. (1-1m) B. W. MUDGE, Sec'y.

Puritan Gold and Silver Mining Company, (Devil's Gate District, N. T.)—Notice is hereby given that the Trustees of the Puritan Gold and Silver Mining Company have this day levied an assessment of one dollar on each and every share of the capital stock of said company; said assessment payable immediately in gold coin to the Secretary, at the office of the company, No. 623, Washington street. H. B. CONGDON, Secretary.
December 26, 1863. 1-m

Bullion Gold and Silver Mining Company, Van Horn District.—Notice is hereby given that a meeting of the stockholders of the above named company will be held at the office of the Secretary, at 7 o'clock on MONDAY EVENING, the 25th day of January next, for the election of officers, and the transaction of other legal business. By order of the President,
San Francisco, Dec. 19, 1863. (2-m) T. L. BIBBINS, Sec'y.

RELIABLE ASSAYS can always be obtained on application to J. H. Churchill, Government House, San Francisco.

W. P. DENCKLA. A. L. CHAMBERLIN.

DENCKLA & CHAMBERLIN,
Stock and Exchange Brokers,
No. 413 Montgomery Street,
SAN FRANCISCO.

☞ Deeds, etc., for record in Humboldt County, Nevada Territory, received and forwarded. 1-tf

L. B. ADSIT & JOHN J. HALEY,
Stock Brokers,
MEMBERS OF THE STOCK AND EXCHANGE BOARD OF BROKERS and of the PACIFIC BOARD OF BROKERS.
Stocks Bought and Sold only on Commission.
No. 604 MONTGOMERY STREET,
1-tf Between Clay and Merchant, San Francisco.

WM. S. LYON & CO.,
Stock and Exchange Brokers,
308 Montgomery Street, corner of Pine,
SAN FRANCISCO.
QUARTERMASTER'S WARRANTS BOUGHT. THE HIGHEST Price paid for Legal Tender Notes. Open till 9 P. M. 1-3m

H. S. HOMANS,
NOTARY PUBLIC,
And Commissioner of Deeds for Nevada Territory,
MINING SECRETARY, CONVEYANCER, ETC.,
No. 665 Montgomery Street, between Clay and Merchant,
1-1m SAN FRANCISCO.

A. C. MORSE,
Mining and Real Estate Agent,
Office, S. W. corner Pine and Silver Sts., Aurora.
HAVING MADE ARRANGEMENTS WITH MINER S. MARTIN, Esq., one of the principal Stock Brokers of San Francisco, I am prepared to BUY and SELL every description of Mining Stocks in Esmeralda District. tf

ISAAC TABOR. JOHN HILL.

TABOR & HILL
Stock Brokers & Real Estate Agents,
502 Montgomery Street, corner Sacramento,
BUY AND SELL MINING STOCK ON COMMISSION. ARE MEMbers of the San Francisco Stock & Exchange Board, and of the San Francisco Board of Brokers. nov23-tf

ARMES & DALLAM,
IMPORTERS AND JOBBERS OF
WOOD AND WILLOW WARE,
Brushes, Twine, Cordage, Etc.,
And Manufacturers of California Pails, Tubs, Brooms, Etc.,
217 and 219 Sacramento St., between Front and Davis,
2-tf SAN FRANCISCO.

W. H. BAXTER & CO.,
—MANUFACTURERS AND IMPORTERS OF—
HARNESS AND SADDLES,
BRIDLES, WHIPS, COLLARS, SADDLERY WARE, Etc.,
407 Battery St., between Clay and Merchant, San Francisco.
N. B.—All kinds of Work made to order and Warranted. Jobbing done with neatness and dispatch, and on the most reasonable terms. 2-tf

EDWARD BOSQUI & CO.,
517 Clay Street, San Francisco,
Book-Binders, Paper-Rulers,
And Blank Book Manufacturers.
Blanks of all kinds printed and ruled to any desired pattern. j2-tf

GEO. B. HITCHCOCK & CO.,
Counting-House Stationers,
HAVE ALWAYS IN STORE A WELL-SELECTED STOCK OF
American and Foreign Stationery.
Blank Books of all kinds, manufactured to any desired pattern, and at the shortest notice. Mining Companies supplied in the best manner, and at reasonable rates. GEO. B. HITCHCOCK & CO.,
2-1m 413 and 415 Sansome St., cor. Commercial, S. F.

E. C. DAKE,
Dealer in Clothing and Gent's
Furnishing Goods,
541 and 543 Washington Street, Montgomery Block,
j2.tf San Francisco.

WM. P. TAAFFEE,
IMPORTER AND JOBBER OF
Staple and Fancy Dry Goods, Carpets, Duck, etc.,
1-tf Corner of Front and Sacramento Streets, San Francisco.

NATHANIEL GRAY,
General Furnishing Undertaker,
641 Sacramento St., corner of Webb, San Francisco.

DESKS AND OFFICE FURNITURE OF ALL KINDS, FOR SALE BY
JOHN WIGMORE,
No. 423 California St., San Francisco.
OFFICE JOBBING, of all kinds, promptly attended to.
j2-tf

San Francisco Silver Mining Company, Lower California, Office 542 Sacramento street, San Francisco, December 24th, 1863—Notice is hereby given that in accordance with the laws of the State of California, and the By-laws of the Company, and an order duly made by the Board of Trustees of the San Francisco Silver Mining Company, there will be sold at public auction, at the sales-room of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on MONDAY, January 25th, 1864, to the highest bidder for cash, in U. S. gold coin, so many shares of the capital stock of said Company, standing in the names of the following persons, as will be sufficient to pay the assessments heretofore levied and past due, together with the cost of advertisements and expenses of sale, unless said assessments and charges are sooner paid.

Names.	Shares.	Amount.
S. O. Bradshaw	439	$304 05
S. C. Bradshaw, Jr.	20	7 12
Geo. B. Reeves	25	8 12
E. T. Peck	50	17 50
J. R. Stewart	25	17 50
C. H. Parker	75	15 00
O. M. Ames	5	1 00
Wm. H. Burlington	6	1 20
C. Boardman	25	8 12
J. M. Cummings	90	18 00
H. W. Chesney	10	1 00
Francis Cutting	5	1 63
H. Kimball	10	1 00
Mrs. C. Smith	8	80
E. Samuels	10	1 00
C. Lassello Taylor	125	12 50
J. R. Warren	10	1 00
Geo. O. Whitney	75	15 00
J. B. Ryder	75	15 00
Robt. G. Bartlett	20	2 00
Martin F. Townsend	10	2 00
John Pinkhaber	5	1 00
Mrs. C. S. Brownell	7	70
John Perry	5	50
Simon Strahan	5	50
W. T. James	5	1 62
Henry S. Smith	20	2 00
W. L. Anderson	25	2 50
Chas. M. Cornell	10	1 00
P. J. Wood	25	6 00
John A. Lundquist	5	50
Thos. Pike	25	2 50
G. W. Smith	10	1 00

By order of the Board of Trustees.
dec28-4t H. C. KIBBE, Secretary.

Mammoth Consolidated Gold & Silver Mining Co., Excelsior District, N. T.—Office 528 Montgomery St., San Francisco, Nov. 28, 1863, Notice is hereby given that there will be sold at Public Auction, at the office of the Company, in San Francisco, on Saturday January 9th., 1864 at 12 o'clock, M., of that day, to the highest bidder, for cash in U. S. gold coin, so many Shares of the Capital Stock of said Company standing in the names of the following shareholders as will be necessary to pay assessment No. 1., of ten (10) cents per share, duly levied thereon by the Board of Trustees on the 9th. of May, 1863; also assessment No. 2., of thirty (30) cents per share, duly levied thereon by the Board of Trustees on the 27th of June, 1863, together with all the expenses of advertising and sale, unless said assessments are previously paid to M. G. Elmore, Sec., San Francisco, or to W. H. Dalrymple, Financial Sec., Aurora.

Names	No. Cer't.,	No. Ass't.,	Shares,	Am't.
J B Best	74 343	1 2	300	115 00
G W Baily	344	1 2	200	80 00
J J Coddington	358	1 2	56½	22 50
D C Crocker	334	1 2	250	100 00
T A Cutter	25 393 to 403 incl'	2	125	37 50
J R Dudleston	27 28	1 2	50	20 00
WD Garland	437 442, 450 451, 503	2	275	82 50
D H Haskell	85 to 69 incl'	1 2	50	20 00
James Jaques	333	1 2	250	100 00
R P Johnson	443	2	100	30 00
J H Latcham	283 284 288 to 291 incl'	2	60	18 93
E J Mathews	34	2	200	60 00
W Mason	92 482	2	13	3 90
John Patten	416 417	2	15	4 50
Geo Raymand	126 to 131 incl' 136 to 142 incl'	2	125	37 50
G H Rogers	143 to 151 incl'	2	200	60 00
J S Shultz	361 487	1 2	95	38 00
G D Myers	360	1 2	5	2 00
A J Severe	170 to 189 incl'	2	200	80 00
N Steiner	118 to 124 incl'	1 2	100	40 00
H S Van Dine	218 338	1 2	175	68 75
H Watson	263 to 267 incl'	2	25	7 50
J C Darragh	268 to 274 incl.	2	50	15 00
J M Meredith	77, 446, 447	2	100	25 00
J Hawkins	73, 452, 456, 455, 454	1 2	175	70 00
C E H Wheaton	570	1 2	25	10 00

By order of Board of Trustees.
M. G. ELMORE, Secretary.

The above sale is postponed until Saturday, January 30th, 1864, at the same place and hour. By order of the Board of Trustees.
2 M. G. ELMORE, Secretary.

San Francisco Stock and Exchange Board.—Rooms, Brokers' Block, Montgomery street. President, J. B. E. CAVALIER; Secretary, FRANKLIN LAWTON.

San Francisco Board of Brokers.—Rooms 430 Montgomery Street. President, SAMUEL PURDY; Secretary, M. G. ELMORE.

Pacific Board of Brokers.—Rooms on the corner of Washington and Montgomery Streets, San Francisco. President, W. P. DENCKLA; Secretary, J. H. GAGER.

California State Library.—Rooms corner of J and Second streets, Sacramento. Hours from 9 A. M. to 10 P. M., during the session of the Legislature, and from 9 A. M. to 4 P. M. at other times. Free to all. W. STRATON, State Librarian.

WHEELER'S
Amalgamating and Separating Pans.

IT IS ACKNOWLEDGED BY ALL WHO HAVE EXAMINED THE principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.

The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metal arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the triturating, this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.

Where these Pans have been introduced and operated by the side of others on sands from the same vat, the Wheeler Pans have uniformly gained a large percentage of metals, over its competitors, as well as a still larger percentage in the amount of work performed.

*** These Pans may be seen in daily operation at the Miners' Foundry, on First street, San Francisco, where all interested are invited to call and examine for themselves.
no16 tf ZENAS WHEELER.

Mining and Scientific Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

VOLUME VIII. SAN FRANCISCO, SATURDAY, JANUARY 23, 1864. NUMBER 4.

INDIAN BAR COPPER MINES.

In the "Mining and Scientific Press" of the 9th inst., allusion is made in the letter of your traveling correspondent to the Indian Bar mining district, and it is my impression that your valuable journal is the first and only paper that has presented to the notice of the public the importance of that section of Tuolumne county.

Being perfectly familiar with the Copperopolis series of veins, having traveled over the same from Calaveras to Mariposa county, I agree with your correspondent in the belief that the veins of this district and its immediate vicinity are the continuation of the Copperopolis veins.

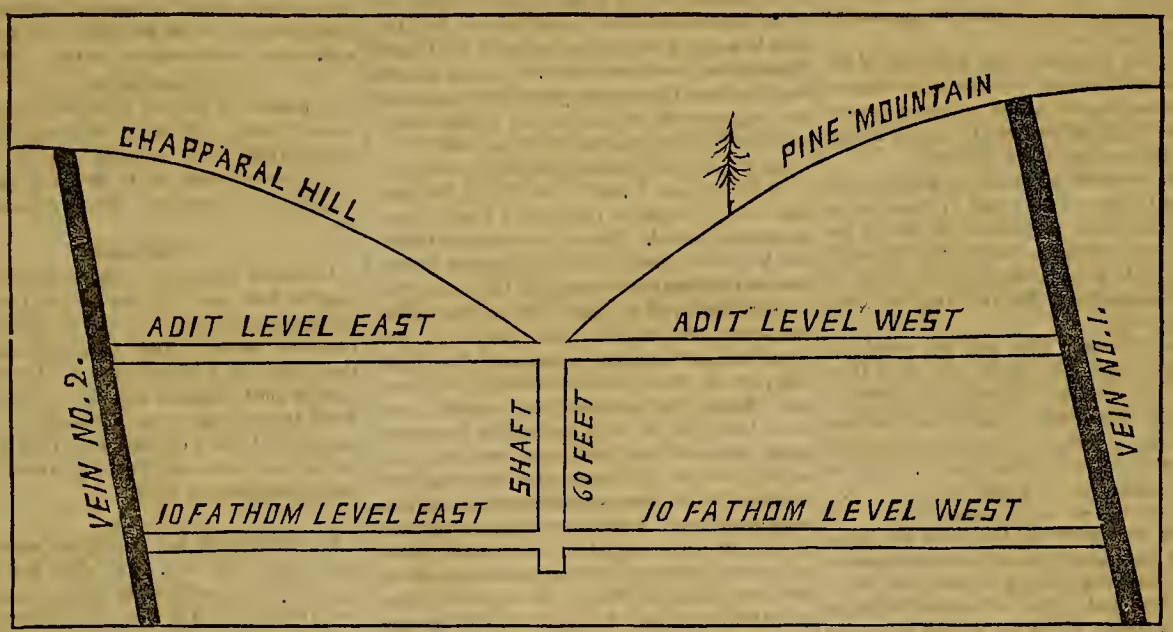
The mining district of Indian Bar properly comprises both sides of Tuolumne river, and is situated between Jacksonville and Don Pedro's, being nearest to the latter place, and embraces a width of about one and one-half miles from the easternmost to the most westerly ledge. By the present route of travel it is some four miles from the Crimea House. The Crimea House is about fifty miles from Stockton, located directly upon the main road to Sonora and at the junction of said road with the road to Don Pedro's and Coulterville. The great number of teams passing over this road and its proximity to the mines furnish unusual facilities for the transportation of ores to Stockton, at a cost not exceeding the usual rates to that city from Copperopolis.

In enumerating the *veins* or *leads* at Indian Bar we will commence with the most easterly, the "Anderson" lead, so called from its discoverer, and then pass to the following *parallel leads* which lie to the *west* of the "Anderson," in the order named: "Bull Dog No. 1," Indian Bar No. 2," "Indian Bar No. 1," "Copper Bottom," the "Montauk" and the "Copper Mountain"—these, it will be borne in mind are the ledges.

A portion of the first named lead, the "Anderson," is claimed and has been partially work by an unincorporated company known as "The Deep Cut Company"—to the north of whose claims, is located the "Lady Franklin," incorporated and owned in San Francisco; tunnel in some 75 feet or more, running obliquely towards the vein but not sufficiently to strike it; work suspended for the present; indications good. Upon the next two parallel leads we have the "Independent" company and the "Bull Dog Mining Company," the first unincorporated, no work done; the latter incorporated and the stock principally owned in Sacramento. Considerable work has been done here by tunnel in a vein some twenty feet wide or thick; and a shaft started near the mouth of the tunnel which at a depth of seven feet shows pure looking rock well filled with the yellow sulphurets of copper. This company is not at work, although the prospects certainly are flattering.

The "Indian Bar Company" and the "Washington Mining Company" are located upon the next two parallel leads. The first is not incorporated; the company have expended considerable money and there is no doubt, have a valuable location, with well defined veins. The following regarding the "Washington" is in part applicable to the "Indian Bar."

The "Washington Mining Company" claim 4,500 feet each upon Indian Bar No. 1 and Indian Bar No. 2; was incorporated in February, 1862; stock held principally in San Francisco, divided into 4,500 shares. This company have worked the most steadily of any in this district, have a good dwelling house some 25 by 25 feet, and are still at work sinking at the end of adit level east as shown in the diagram:



PLAN OF THE WASHINGTON COPPER MINE, INDIAN BAR, TUOLUMNE COUNTY.

From the report of the engineer we make the following brief quotation explanatory of the accompanying illustration:—

"Prefatory to the explanation of the proposed plan for proving the mining grounds owned by this company, it may be well to state, that the company own four thousand five hundred feet upon the leads, which are upon the east side of the Tuolumne river, at Indian Bar, in Tuolumne county. I consider the location of this mine, for accessability and convenience of working, the best upon the leads. The company's claim covers a width of one thousand feet, and Bull Dog gulch, to the south-east of the company's location, reveals seven veins or spurs in the above width. These spurs probably unite with the main leads, or it may be connected with or belong to a third vein. The lead No. 1 in the diagram is known as the Indian Bar vein No. 1, and the vein to the left as Indian Bar vein No. 2.

The plan, a diagram of which is furnished above, will in the lowest tunnel (ten fathom level) prove the vein at a depth of about ten feet below the present

level of the river, or a few feet deeper than the prospecting hole made in the vein, where first discovered, and from which rich specimens were taken.

That the company possess a valuable location there can be no doubt, and a few months labor will prove the same. The proposed levels or cross-cuts will be about three hundred and fifty feet in length from vein No. 1 to vein No. 2; and if a portion of the spurs or feeders, seen in the gulch referred to, belong to a distinct lead, we shall be likely to prove the same in our tunnels."

The adit level east cuts the chapparal hill vein at a depth of about 70 feet, and the Pine mountain vein will be cut at a depth of about 100 feet by the west adit level, when the same is completed.

Vein No. 2, which was seven feet thick on the top of Chapparal Hill, was found to have narrowed to about two feet in the end of the adit level east, but is now gradually widening again, and within a few days the Superintendent has sent forward some samples of the rock from this point, of a highly gratifying character. Adit level west has been drifted about two-thirds of the distance towards the vein. Work in this level has been suspended for the present. There is no doubt that when the shaft reaches the water level the vein will be found well filled with copper. That this is not an unreasonable expectation, it may be well to state that the river, which pursues a very crooked course in this neighborhood, flows over or crosses nearly all the veins in the district, and the veins where so crossed by the river show copper quite abundantly. We have samples from the Anderson, Bull Dog, Indian Bar, Copper Bottom, and Montauk ledges, taken directly from the surface, either of which would be pronounced fine specimens of ore.

It is of great importance that some one of the claims at Indian Bar should be sufficiently prospected to prove the character of the veins at the proper depth, as we think success would be certain, and the success of one company would inspire all.

Parties or companies here should sink at once, and not attempt to prove their claims by tunneling, as sufficient back cannot be obtained in most of the locations in the district to warrant that system of prospecting. At some future time we will furnish further information as to the Bull Dog and other claims hereabout.

In closing, we would state that fine samples of copper pyrites have been taken from all of these leads, and in no district that we have visited are there more or better surface indications; but comparatively little work has been done, and but a limited amount of money expended—both of which are required to prove a mine. Yours, etc., S.

The New Substitute for Coal.—In the discussions which have recently taken place with regard to the practicability and economy of using coal oil for fuel, it has been made to appear that about 50 gallons of oil are equivalent to one ton of coal when used for fuel, in making steam. The above specified amount of crude coal oil, the form in which it is proposed to employ it for that purpose, can be delivered upon the Atlantic seaboard quite as cheap, if not cheaper than a ton of coal. The difference in the bulk and weight of the two, and the greater facility with which a cask of oil can be handled must create a vast preponderance in favor of the oil. Speculation, in this connection is also rife with regard to the probable utility of the famous asphaltum lake in the Island of Trinidad. It is said that this lake is capable of producing 300,000,000 gallons of oil, which would be equivalent to about *seven million tons of coal.* It would also furnish a convenient fuel station for many sea-going steamers. The resources of California in this class of material is immense and inexhaustible. Consumers, we think, may reasonably expect an important advance in the prices of coal oil within a short period.

Napoleon said "bayonets think." A cotemporary pointedly adds—"Few thinkers have so much keenness, point and penetration as they."

Correspondance.

[Written for the Mining and Scientific Press.]

Chinese Camp and Jamestown.

BY OUR TRAVELING CORRESPONDENT.

Mr. Editor.—Before I resume my reports of the mines, permit me to congratulate you upon the New Year's appearance of the Press. It is only natural I should feel proud of the paper as it comes out this week. Perhaps it is not admissable for me to say *all* I feel upon the subject, but this much I may state, that so far as I have heard the public express an opinion on its merits, it is one of entire satisfaction in every respect. For style and matter, type and arrangement, it certainly has now no superior in the State. I feel it an honor to hold a position on a journal so creditable to itself and so important to the community.

Since I wrote from the neighborhood of the Crimea House, I have been kept traveling around by different parties almost every day; and consequently have collected much important information of the mineral wealth of Tuolumne county. Of the vast amount of wealth in gold and silver, as well as copper, the public generally, below, know but little, and seem to care less. The unfortunate and unprofitable mania to seek a fortune any where but near home, so conspicuous in our people, is principally the cause, I presume, of this county being so much neglected. If I can be instrumental, therefore, in diffusing a more correct knowledge of this important section, and of drawing the attention of capitalists to it, I shall indeed be happy, for the correspondent of the London Times himself, could not have had a more splendid reception than I have had as your's; and, considering the stagnation of business—owing to the want of water—they have patronized the Press well.

Many long years, indeed more than a decade, have passed away since I resided in this neighborhood, and so far as copper is concerned, I find my early predictions verified. Like all other parts of California, it exhibits great changes in its general features, but most of them are certainly for the better. The reckless, dissipated population, the gambler and his *compancra*, the murderer, and promiscuous vice, which then prevailed, have passed away forever, giving place to order, virture, education, refinement, law. Many of the towns also, that I expected to see blotted out, such as those heading this letter, have grown into established importance; while the entire section, from one end to the other, is adorned with handsome homesteads, splendid gardens, and magnificent orchards. And yet, anywhere but here, with climate and mines unequaled, will our men of wealth and men of sinew go. The Atlantic States, during last year, consumed, I believe, the enormous amount of 40,000,000 pounds of copper, themselves producing only a little more than *one-fouth* of that amount. Let capitalists come up into this section, between the Tuolumne and Mokelumne rivers alone, judiciously invest $100,000, and in a few years time, the foreign supply will be no longer required. Need I say another word in favor of such a speculation; the happiness and prosperity it would give to the country districts; the dignity and importance it would confer upon the State; the business and affluence it would bring down to San Francisco? Sometimes, Sir; as I travel along, wondering at the beneficence of Providence to this State, and the marvellous developments a pitiable $100.000 would secure—pitiable at least, in connection with the results of its expenditure—the folly which takes our people of means to those far-off places, inhospitable in climate, unproductive in soil, *uncertain* in mineral wealth, would lead them right away to another place, where, according to tradition, it is insufferably hot, and the accommodations exceedingly poor. A word to the wise, they say, is sufficient. I hope it may prove so in this case.

On reaching Chinese Camp, which has become much larger than I thought it ever would be, I presented my letters to Judge Taylor, and Mr. Halsey, both largely interested in copper, and met with a cordial reception from them. On the following morning Mr. H. gave me a seat in his buggy, and drove me round till dark. About one mile below Montezuma, and four from Chinese Camp, is the

HALSEY.

It contains 3,300 feet in single foot shares. Main shaft sixty-five feet deep. This claim, I believe, is the pioneer of the district, and is certainly the most advanced of any. At one time it enjoyed a very high reputation. From a close proximity to a strong bed of serpentiue, it is difficult to form a final judgment as facts show themselves at present. I have already stated, no concentrated vein of copper will be ever found in this detestable rock, the associate but at the same time the evil genius of copper. In this case, the lead opens well two feet wide, with really rich black oxide ore. In the lower drift, where the inclination reaches the serpentine, it does not look as well as it ought to, having become diffused in sulphurets, all over the rock, as in the old shaft of the Harlem. I thought at first, and think still, depth alone is serviceable in the present shaft, as the only means of escaping the serpentine finally; and I am glad to hear, since, at ten feet deeper good oxide ore re-appears. They have concluded to go on sinking, and wisely, for depth with them is success. The works are complete, with a good steam engine and pumps, all put up under the superintendency of Mr. Halsey, who owns largely in the mine, and from whom it was named. Altogether, the management reflects much credit on Mr. Halsey. A few minutes walk below, on the same vein is the

LONE STAR.

It contains 2,300 feet, I believe, in single foot shares. Main shaft twenty feet deep, opening well with fine blue slate; but being also on serpentine no reliable judgement can be arrived at yet. Work suspended. A little lower also on the same vein is the

JAMESTOWN.

It contains 5,100 feet, in single foot shares. Main shaft 66 feet deep. At this depth, I understand, the serpentine is giving out, and the slate is rapidly becoming natural. Work being suspended at the time of our visit, I did not go down. All these claims open on good croppings, and rich carbonates, and if finally they dip clear of the serpentine, they will be valuable. A short distance west of the Halsey, on the supposed exteusion of the Copperhead of which I shall speak hereafter, is the

OLIVER.

It contains 6,250 feet in sixty-one shares. Main shaft twenty feet deep. This claim has just been opened by our good friend Mr Oliver, who goes heavy on "The Press." The foot wall appears very handsomely, and the vein shows good sulphurets in a pure rock. The shaft, however, would have been better 10 feet further east. Had Mr. O. sunk three feet further west, he would have gone outside the foot wall, and missed the vein altogether. So much for this notion of hugging the west side of the croppings. It always gives trouble eventually. Continuing down the main road to Jamestown, three-fourths of a mile, on another vein, is the

GERMANIA.

By some mischance I have lost my memorandum of this claim, but the main shaft is about forty feet deep. This claim like its neighbours, opens on iron-cap croppings, which I do not like as well as a talc formation, because as a general rule, they are followed by a very hard rock. The claim, however, is very promising; the vein is wide, reliably developed, has a pure rock, and shows good sulphurets, with an excellent cast of mundic, and sulphate of iron. Still they will have to go deeper than they have hitherto imagined. I do not think they will cut through the present rock short of 60 or 70 feet. Eventually, however, there is little doubt of this being a first-class

claim. Mr. Adam Haag and Mr. Riel, members of this company, both subscribed to the Press. To Mr. Haag I tender my acknowledgments for much assistance, and many civilities. Adjoining the Germania, but on another vein, is the

BURNA BURDA.

I have also lost my memorandum of this claim. The main shaft is, however, somewhat deeper than that of its neighbor. Much already said of the Germania is applicable here. I can only speak of the character of the rock, as I did not go down the shaft. Work has since been resumed. The rock is good, carrying heavy sulphurets of copper and a large quantity of mundic and sulphates of iron. Nevertheless they have to sink considerably yet. Below this claim, a few yards, on a third parallel vein, is the

BALLARAT.

Of this claim I was unable to learn any particulars—work having been suspended until next Spring. Neither, to my knowledge, did I make the acquaintance of any of the proprietors. All I can say is, the rock looks well. Proceeding hence to Jamestown, a little more than half a mile north of the town, I came to the

NORTH STAR.

It contains 3,600 feet, in single foot shares. Main shaft 50 feet, with two drifts, one 30 and the other 55 feet. Both of these, in my opinion, are entirely useless. They are also unfortunate, for the labor expended on them, put upon the shaft, according to present appearances, would certainly have given this claim the honor of first striking copper. It opens well upon rich carbonates; on these giving out the rock looked blank and dead, as it always does. Hence the first drift. But, to an "expert," it shows no more of the existence of the vein than the evidences in the shaft at the same depth, had they known where to look for them. They then went down to their present level, carrying the foot-wall nearly all the way, splendidly developed, with the hanging wall just coming in at the bottom; and now comes the incomprehensible error of drifting north between the two walls to strike the vein they are really all the time on. All they will ever find in that drift is what they have found—places here and there, where to the inexperienced eye the indications look better than at the foot of the shaft—that's all, and a poor reward it is for so great an expense and delay. This is really a sad blunder, though the present Superintendent is not to blame for it. Here is a splendid vein, 6 or 7 feet wide, with both walls developed with fluckan, carrying the handsomest slate possible, profusedly impregnated with copper pyrites, yellow sulphurets, sulphates of iron and mundic. Surely all that constitutes a copper vein, if anything does; and, therefore, by going down at the bottom of the shaft, they were equally certain to strike ore, by drifting on the vein north or south 60 feet and then sinking at the other extreme. This is a self-evident proposition, which admits of no argument. Beyond doubt the North Star is a magnificent claim, as it stands now. All it required was depth; and the length of the lower drift added to the shaft, would have given Tuolumne county a live and reliable copper mine, and I believe a rich one. I explained these views to Judge Preston and Mr. Calloway, the Superintendent, in a conversation with them upon the subject, and the probability is, they will sink a new shaft at the end of the drift, or go down on the old one. I have to acknowledge the cordial politeness of the Judge and Mr. Calloway.

These are all the mines in the neighborhood of the towns mentioned, lying on the south side of the celebrated Table Mountain, of which I shall speak hereafter in the proper place. I must now proceed to the north side of the mountain, some three miles, to the continuations of these claims. The first is the

PACIFIC.

It contains 2,250 feet, in 15 shares. Main shaft 20 feet, opening with a strong vein, carrying yellow sulphurets, copper pyrites and mundic. When I first saw this claim with Mr. Hulsey, its strong admixture with serpentine gave me an unfavorable opinion of its future success, in spite of its fine opening. By singular good fortune, they have lost, at their present depth, all serpentine connections, and run into a remarkably handsome talcose formation, with streaks of good shipping ore—fine, pure, yellow sulphurets. At one time I thought they were on the verge of opening the vein, but from rock I have since seen I conclude, from these sudden changes, it will take considerable depth to free it from all corruption, and open it reliably. The claim is managed by Mr. Halloc, who subscribed to the Press. Near this claim, somewhat lying north, is the

NE PLUS ULTRA.

It contains 1,800 feet, in 12 shares. Main shaft 20 feet, showing both walls well developed. I saw an excellent character of rock from this claim, very pure in formation, with strong yellow sulphurets and heavy cast of mundic. I did not visit the shaft. At present they cannot work on account of water. A mile and a half or two miles below the Pacific is the

COPPERHEAD.

It contains 3,300 feet, in 11 shares—at least it appears so in my notes, but I think they must be wrong. Main shaft 50 feet. This claim made quite a noise at one time, because, like many others, the splendid surface indications were over estimated in character and duration, and now they have given out, as they generally will. It is not valued as much as it ought to be. Apart from its splendid openings, both walls were reliably developed with fluckan, at first 20 feet apart. From the badly chosen site of the shaft, as usual too much west, and in a low rugged ravine, the walls have been sadly bolted, and now pinch together close. The vein, however, is strong and healthy, of splendid rich, dark blue slate, showing yellow sulphurets, black oxides, and sulphates of iron, and mundic—so strong, indeed, that it is impossible for it to give out. At 10 or 15 feet more, I am satisfied, it will widen again from 5 to 7 feet; the walls will become regular, and no further trouble experienced. At the same time I do not think anything less than 100 feet will open the mine properly. There is more in a name than some people imagine. Had this been called "Republican" instead of "Copperhead," it would, no doubt, have gone straight down, like any other decent, well-behaved copper mine, and not have cut up the didos it did. However, I am glad to say, I have *really* great faith in this claim. It is owned by a splendid set of fellows, to whom the Press is under many obligations. They not only took two copies, but rendered me much valuable assistance. To District Attorney Brown, Messrs. Gardner and Potter, County Clerks, our thanks are especially due. The only fault I find with them is, that about Christmas and New Years they were just a *leetle* too heavy on turkey and chicken-pie. Adjoining this claim, on the same vein, is the

OSO.

It contains 1,500 feet, in 10 shares. Main shaft 40 feet. In this shaft, from its more advantageous location, the vein shows itself straighter, more handsomely, though not more healthily than in the copperhead. It is some 5 feet wide, with both walls developed, and fluckan. The description of one answers the other, only, I think, from the advantage of position, and the settled and regular course the lead shows in this claim, it will probably be the first to strike copper. Still further north, nearly a mile, on the same vein, is the

MEADE.

It contains 3,750 feet in single foot shares. This was only just opening when I visited it. Since then I have understood it looks promising and healthy. Beyond the Meade, continuations on the same vein to the river Stanislaus, are the Break-of-Day Cañon, Mount Washington and Bouquet, at present simply locations. Considerably north of all these, on another vein, is the

DOWNEY, OR FRENCH CLAIM.

It contains 1,950 feet in 13 shares. Main shaft 20 feet, showing very pure and rich rock. There is something very singular in this claim. The vein was first found in a ravine by men working their placer claim, and so they foolishly sank right there, about 50 feet below the ledge where it crops on the mountain. In the shaft the vein runs east and west almost, as if sometime or other a portion of it had been dislodged from above and thrown down the ravine. There is no evidence whatever of its being a cross-vein, so that I think as they go down, rich as it looks at present, they will have trouble. One thing is certain, it has no right running as it does; and, if it does not come round to its proper course as they descend, there is surely something wrong somewhere.

Such, I believe, are all the copper mines in Tuolumne county at present in operation. Few people below, I take it, imagined there were so many, or that they looked so prosperous. Was I wrong in saying $100,000, judiciously invested, would accomplish wonders? Some of these claims are going to equal the best copper mines we have in the country. If, by bringing their merits before the public, reliably, as I have endeavored to do, you succeed in arresting the flow of money and men to distant, outlandish places, your paper will confer a greater benefit on the State at large than all the others put together, and eventually reap a proportionate reward.

I have another letter to prepare, on the quartz interests of this section; and, I think, I can show that in this respect, as well as copper, Tuolumne county is not behind any other in her claims upon the notice of capitalists.

L. H.

Reese River Letter.

We are permitted to make the following extracts from a recent letter written by J. E. Bowe, at Amador, Lander, Co., N. T., to Mr. B. J. Hull of this city, relating to the Aspinwall and Biglow ledges.

The ledges are located on "Forty-nine Hill," about one and one-half miles north of this place. The "Aspinwall," upon which the most work has been done, is without doubt one of the best ledges in the district. We have had two lots of rock tried at the same mill, Varney's. The first lot proved so rich that the mill man thought there was certainly a mistake, and of the next lot, all that we could get him to say was that it would work over twenty-five dollars to the ton. A Mr. Wilson, who claims to represent your company here, has tried it and he says that it assays from thirteen to fourteen hundred dollars per ton. Certain it is that we can take the rock and by burning it in a common stove, coat the rock all over with globules of silver and gold. We have got the richest specimens from this ledge that I have seen in the district, not excepting the far famed Amador. The ledge is from ten to twelve feet wide, and can be easily traced for nearly or quite its whole distance. I think more of it than any other interest I have in the Territory, and that is saying a good deal, as I have an interest in the first and also the second northern extension of the Amador.

SQUEAKING BOOTS—A REMEDY.—Who has not been annoyed, time and again, by squeaking boots? A correspondent of the *Scientific American* has been experimenting for a remedy. After trying several, he thinks he has hit upon one which will never fail. He saturated the soles with boiled linseed oil, keeping the soles as hot, during the application, as can be done without injury to the leather. As much oil is applied as the leather will take up. He had previously tried several other oils in the same manner, but without success. Boiled linseed oil is the only remedy he has tried without failure. Lecturers and public speakers, generally, as well as their hearers, will unite in a vote of thanks to that correspondent.

A FIRE was discovered in the Mint, on Monday, but speedily extinguished.

Summary of Mining News.

Trinity.—The cold in this county has been very severe. Correspondence of January 12th says:—

"At present the mines, mills, and everything else is frozen up as tight as the Arctic regions, and no one is doing anything, for the good reason that they would freeze their fingers if even they tried to roll only a few boulders out of the ditches, so as to allow their self-working reservoirs to do the work for them in this cold, bleak weather. Our mines, or some of them, at present are paying good wages—as good perhaps as any in the State; but they are not generally good. Of those that pay from $50, to $100 a week to the hand, I can mention Hulme & Co., Donebrink & Co., Day & Co., and Bartholomew & Twambly. They are all sluicing claims, and are good ones. Of tunneling claims, S. Brumfreid and Stevens & Pilcher are the only ones now being worked, and they pay exceedingly well. The owners think that after driving their gangways into what appears to be a black channel, they will strike it fabulously rich. Saw mills are all blocked up. There is nothing doing in the way of lumber at present."

Shasta.—The *Courier* of January 11th gives the following:—

"The original company in the Excelsior copper lode, located near Whiskytown, after sinking a shaft some eighty feet on the lode, and drifting from the bottom of the shaft several feet, have made such discoveries as to justify them in running a tunnel. They have commenced the tunnel so as to strike the lode some two hundred feet below the shaft. One day this week the quartz mill of James Long, near Middletown, cleaned up after crushing fifty tons of gold-bearing quartz taken from Jolly & Co.'s claim at Muletown, and had seventeen pounds of amalgam weighed on common platform scales. Those skilled in estimating the value of amalgam of this description say that the yield will be about $40 per ton of rock crushed."

Sierra.—The French Company on the middle Yuba, near Minoesota, have struck a pocket from which they estimate a yield of about $75,000 bullion in gold.

Nevada.—We have been able to gather nothing of interest from this county, during the past week, save the following from the Grass Valley *National*:

"The Massachusetts Hill Mining Company, of this place, for eleven day's run, recently cleaned up $26,000. Plenty of the same kind of quartz now ready for crushing. Such a yield as this, supposing the base of operations to be across the mountains, would set the people wild, and draw four or five thousand persons away from comfortable homes. Not easily excited here."

El Dorado.—The French Company, at Rhodes' Diggings, in this county, engaged in quartz mining, are taking out exceedingly rich rock. They intend to erect a mill in a short time. For a number of months past, they have shipped their rock to San Francisco, and had it crushed, and realized from it large returns.

Monterey.—The *Gazette* says that confidence is increasing in the Soberana mines. A rough assay recently made of some rock brought to the city was highly satisfactory. Work is steadily progressing, developing at every stage the great extent of the ledge and its exceeding richness. The stock is mostly in the hands of men of contracted means, who are unable to sustain the expense involved in erecting machinery, and are therefore confined to the primitive appliances used by the Mexican miners. "Slow but sure" is their motto. Zaragossa is improving. Much labor has been expended in tunneling, amply warranted by the indications. Valuable assays were obtained from this mine months since, but no well defined lead had been struck. Recent prospecting has been more successful. From the copper mines we continue to receive reliable accounts of their wealth and great extent.

San Louis Obispo.—The Monterey *Gazette* says that wonderful stories of newly discovered quicksilver and copper mines in the neighborhood of San Louis Obispo, are constantly coming in, accompanied by specimens of extraordinary richness. A large extent of country has been taken up, but so far as any reliable information has been received, only one distinct lead has as yet been found. This, however, judging from the immense mass of rich float rock which has been discovered, it is thought will lead to other discoveries of a valuable character. The excitement at San Louis Obispo is said to be most intense, amounting to a perfect mania, so much so that her citizens are now digging up their main street in search of hidden treasure.

It is now about two months since these discoveries were first announced. The principal vein, as above noticed, is of cinnabar and is located near San Miguel Mission, in the northern portion of the county as laid down upon the map of California. A company has been formed and incorporated to work it, and shares are held at rates ranging at from $20 to $120 per foot. The vein is said to be very large, fully 20 feet thick, and believed to be as rich as the new Amador. Every shareholder considers himself a *millionaire*, and perhaps he may be if quicksilver don't come down to a bit a pound in price. There is an old tradition that a rich mine of "vermillion paint," was formerly well known to the Indians of that neighborhood, which may be the identical one which is now creating so great an excitement.

Santa Barbara.—Increasing attention is being paid to the mineral deposits of this county. The entire coast range of mountains extending through Monterey, San Louis Obispo and Santa Barbara counties are known to be full of mineral, and it is confidently expected that it will soon prove of great value for its deposits of cinnabar and copper and possibly of gold and silver. Parties have been out the past season all through this region searching for copper and silver. It is said on pretty good authority that during the Mexican war, a soldier belonging to Col. Lippet's command, stationed at Santa Barbara discovered a rich vein of cinnabar in the mountains back of San Benaventora Mission. A piece of the ore was pulverised and retorted in a gun-barrel, from which its character was positively determined, and the ore known to be rich. This vein has often been searched for of late, but without success, unless possibly, at a very recent date. During the last five weeks it has been suspected that it has been re-discovered by a party of miners, who have been very mysteriously busy in that vicinity. They claim to be connected with "rich English capitalists," etc.

It may safely be predicted that this region will at an early day occupy an important position among the mining localities of the Pacific coast.

A Large Theft of Amalgam is noticed in the Virginia *Union*, as having taken place on the night of January 10th, at the Washoe Reduction Works, near Washoe City. It was taken from the private room where it was usually kept, previous to being retorted. The room was broken open by the robbers and about $5,000 worth of amalgam taken, and as much more in value of bullion. Several of the Freyburg casks, or barrels were also broken into.

From Key's District.—Mr. J. H. Gibbs, of Owensvile, has just brought us some fine appearing rock from Owens River, which can be seen at this office. The samples include specimens from the Sheba, Blue Lead, Manhattan and Twin Brothers. Mr. Gibbs has a favorable report from the mines in that section, and promises our readers the benefit of his information in our next issue.

Mounted Prospectors for Arizona.—The *Union* of the 14th says that a company of mounted prospectors is being organized in Virginia City to proceed to Arizona. They will go armed as a protection against the Apaches. The company is to consist of 100 persons, and will start early in the spring.

Another Mining Company.—A mining company, called the Rincon Forest Gold and Silver Mining Company, has recently been incorporated. The company propose to lay out a town in the Rincon Valley on the Scyante, and to give to every purchaser of the Rincon mining stock a town lot and five acres of land.—*Santa Cruz Sentinel.*

The State Constitution voted upon by the citizens of Nevada Territory, on Tuesday last, was rejected by an overwhelming majority. The objectionable feature of the Constitution was the clause taxing the unproductive mines. So Nevada will remain, as heretofore, a magnificent "Territory."

Crosette has sold out the Butte *Record* to Wagstaff, of the Oroville *Union*. The latter excellent paper (like the story in the *Sunday Mercury*) will be continued.

Washoe Mining Stocks.

The Mining Share Market of Virginia City is improving, although transactions still continue limited. Most of the sales are confined to leading stocks.

Virginia District.—The transactions in this district are somewhat limited. Burning Moscow may be quoted at from $140 to 175. Buroside advanced slightly during the week, $16 being bid for it. South Burnside has also advanced. Bajazette and Golden Era has gone up materially, $35 having been offered for small lots, though we have heard of but few sales. For Milton $40 was bid, and $50 asked. Sacramento, since the consolidation with the Meredith, is held at from $100 to 110, but few transactions have taken place. For Utah $74 was repeatedly offered in the Stock Board, with no sellers. Bids for Sutro have advanced to $5 50, $7 being asked. Allen $60 is asked; Honduras $15 asked; Hurst & Meredith, 55 asked; Iowa, 100 asked; Iusuraoce, 12 asked; La Crosse, 27 bid—30 asked; Ponce de Leon, 1 bid; Seneca, 8 bid—9 asked; Latrobe, 75 asked; Carson and Truckee Wood Co., 75 asked; Kenosha 2 bid, 5 asked.

Gold Hill District.—We quote sales: 25 shares Globe at $13; 145 shares Golden City $4 to 6; 20 shares Leon at $10; 40 shares Dilligent at $3 50 to $4; 55 Colden Horn at $7; 85 shares Arizona $10 50 to $13; 60 shares Jenny Liud at $6 to 6 75; 20 shares Tontine at $5 50; 150 shares Argo at $4 to $8; and 16 shares Mary Ann at $40; Justice has declined somewhat, having closed at $110 asked and $80 bid. Rock Island has advanced slightly, holders asking $12. North American remains about the same, and may be quoted at $85. Caledonia Tunnel at from $30 to $35. Globe is in demand at from $10 to $13. Crown Point Ravine advanced in the early part of the week, but afterward declined slightly, $20 being offered it at the close. Ooeota was sought after at $15, but there were no sellers. For Navigation $6 was bid and $12 asked. Argo in good demand at $8. Overman is steady, having sold at 550 during the week. There is a fair demand for Dilligent at 4. For Keystone $20 was bid, holders asking $35. For Miantanomah $8 was offered.

Flowery District.—Since the excitement in the Lady Bryan, a number of other claims in the vicinity have been in request, such as the Desert, Uncle Sam, &c. For Lady Bryan $50 is bid and $60 asked. Three dollars is offered for Uncle Sam, and for Desert $17 is bid, holders asking $25. Harrisoo, $5 asked; International, $2 bid; Atwill, $4 asked;

Argentine District.—North Opbir, $6 bid—$15 asked.

Devil's Gate District.—Pride of the West, $80 bid; Sebastopol, $4 bid.

A Durable Ink.—The Romans wrote with an ink made from finely pulverized charcoal. The durability of this ink has been most strikingly manifested by the legible character of the writings found in Herculaneum, which have retained their original blackness for more than 2000 years. The enduring character of this ink is owing to the carbon which was present in the charcoal—carbon being one of the most durable substances known. The incorruptability of charcoal was well known to the ancients, and its durability is not overlooked at the present day. Charred stakes, with no apparent decomposition upon their surfaces, have been taken out of the Thames within the present century, which were placed there by the ancient Britons to prevent the ascent of that river by Julius Ceasar and his army.

The Patent Office.—During the past year the business of the Patent Office has come fully up to the standard which existed previous to the outbreak of the rebellion. A large number of the inventions now being made are the results of recent discoveries in the arts. The introduction of kerosene oil alone has been the means of bringing out no less than 400 inventions solely for lamps to burn that oil.

The Metal Market.

Unusual activity in the metal market, foreign and domestic, still continues. In addition to our war troubles, the increasing probabilities of a general European disturbance is exerting an important influence upon the market everywhere. Prices are firm, with an upward tendency.

Iron.—The iron trade fully maintains the improvement manifested during the past few months. In the British market, at latest dates, orders were on hand in many localities for two and three months ahead. The demand for railways and shipbuilding is greatly on the increase. Swedish has slightly declined, while English iron and Scotch pig is in great demand. Quotations in London, are at £8 10 s; rails £7@£7 10s at the works.

In New York we quote a sale of 50 tons Refined English Bar, at $100, cash. We quote Scotch pig at $43@$45 per ton, cash, but job lots command higher rates; American, No. 1, Pig at $42@$45, Nos. 2 and 3 do. are more plenty and comparatively much lower; Swedish Bar, at $135; English Refined do. at $95@$100; do. Sheet at 6½@8c. per lb., and Russia do. at 22½c.

Copper.—The London market is steady, holders firm. But few sales except in second hands. Some little business doing in foreign at nominal prices. Burra Burra is quoted at from £99@£10; Rapuuda, at £102. The copper ore market has been somewhat finetuating. On the first of November it had advanced about £1 10s; on the 5th it still further improved to the extent of £2 10s; declined slightly on the 12th, and still further on the 19th. At the four Cornish sales of ore during the month of November 14,768 tons were disposed of, with an average assay of 6½ per cent.

In New York, at latest dates, refined ingot was less animated, with prices firm at 27½@38c.

Tin.—Unsettled, with a downward tendency in the British market. We give New York quotations —Bonca 54; Straits 42c.

Lead.—Has slightly improved. We quote American—per 100 lbs, $9¾@$10; German $9¾; bar per lb 11½c; pipe and sheet 12@12½c.

Another Printer Gone.—Geo. H. Winslow, the founder of the Press, died in this city on Monday last, and his funeral was attended at Dashaway Hall on Wednesday. We were not personally acquainted with Mr. Winslow, but learn that he was a person gentlemanly in manners, of generous impulse and adventurous spirit. Some weeks ago the deceased rescued a child from drowning by leaping into the bay. From a scratch received upon his person and the cold taken by this operation, his death by erysipelas occurred. Like most printers, his connection with the press was varied, and now, as the ills of life are o'er, we trust, whatever may have been the errors upon his "proof sheets" here, he has taken a clear "revise" to the "Master" above. Mr. W. started this journal under the name of "*The Scientific Press*," but his connection with the same ceased after the issue of a few numbers.

San Francisco Board of Brokers.—This Board voted, yesterday, to hold two sessions a day hereafter. We understand that the prospects of this Board are highly flattering. Its membership is full and its sessions well attended. The business before the Board is rapidly increasing. The reports which we give this week, it will be observed, by comparison with reports of previous weeks, exhibit a large increase of sales. We are pleased to notice these gratifying evidences of progress. They also indicate an increased interest on the part of the public in transactions in mining stocks.

By advertisement in another column, it will be perceived that notice is given that an Open Board will be held daily, hereafter, at their Rooms, at 10½ o'clock, A.M., Sundays excepted.

New Incorporations.

The following is a list of the companies having their principal place of business in San Francisco, which have filed articles of incorporations in the County Clerk's office since our last report.

Agua Nueva C. and S. M. Co.—Arizona Territory. Trustees: Celestin Ringel, Herman Hotzhauer, Wm. Crocker. Capital stock, $120,000.

Castle Dome M. Co.—Arizona Territory. Trustees: J. G. W. Schultze, John Grief, Adam Mendez, Jacob Tchleicher, Gustave Mayrich. Capital stock, $180,000.

Los Angeles M. Co.—Arizona Territory. Trustees; J. G. W. Schultze, F. Strand, M. Scholl, Adolphus Nohl, C C. Feitz. Capital stock, $82,500.

Rio Cuneo S. M. Co.—Sonora, Mexico. Trustees: John E. Kincaid, Benjamin Dore, Geo. W. Paget. Capital stock, $600,000.

Magoie G. and S. M. Co.—Lander county, N. T. Trustees: A. H. Hagadorn, R. Cullen, James Leffingwell, Samuel Donnelly, A. G. Hasey.

Mount Moriah S. M. Co.—Reese River. Trustees: W. R. Garrison, Wm. Wadham, H. C. Nichols, C. J. West, J. M. Merrill. Capital stock, $180,000.

Highland G. and S. M. Co.—Reese River. Trustees: G. W. Benham, J. G. Jaekson, A. J. Shrader. Capital stock, $50,000.

South Milas G. and S. M. Co.—Storey county, N. T, Trustees: James Leconey, E. E. Eyre, R. C. Page, John S. Dudley, C. S. Fairfax. Capital stock, $250,000.

Consolidated Ophir Copper M. Co.—Colusa county, Cal. Trustees: A. K. Ginson, Perley Dunlap, W. H. Blood, Matthew Crook, L. N. Thorne. Capital stock, $300.000.

Fool Catcher No. 1, G. & S. M. Co.—Colusa county, Cal. Trustees: Matthew Crooks, W. H. Blood, I. N. Thorue. Capital stock, $410,000.

Fool Catcher No. 2, G. & S. M. Co.—Same location, Trustees, and capital stock.

Fool Catcher No. 3, G. & S. M. Co.—Same location, Trustees, and capital stock.

Ashlann Mining Co.—Arizona Territory. Trustees: James Hitchens, E. D. Knight, H. D. Begnette, James H. Davis, R. E. Bucaner. Capital stock, $140,000.

Pittsburgh G. & S. M. Co.—Amador county, Cal. Trustees: Thomas Ryan, Wm. H. Ryan, John Nash. Capital stock, $100,000.

Ne Plus Ultra G. & S. M. Co.—Amador county, Cal. Same Trustees and capital stock.

Baden Baden G. & S. M. Co.—Shasta county, Cal. Trustees: Louis Wegterman, Lloyd Martin, R. W. Bryant. Capital stock, $120,000.

Zaidee G. & S. M. Co.—Russ River. Trustees: A. P. Cox, A. P. Sandford, George H. Merrill, D. McDaniel, J. H. H. Williams. Capital stock, $50,000.

Uncle Ade G. & S. M. Co.—Tulare county, Cal. Trustees: H. P. Garland, B. P. Wilkins, John A. Bray. Capital stock, $135,000.

Hibernia Copper, G. & S. M. Co.—Williams' Fork Mining District. Trustees: T. G. Williams, James F. Crowley, D. McCarthy, John Donnelly, M. M. Colgan. Capital stock, $360,000.

Omega Virginia Co.—Storey county, N. T. Trustees: W. H. Bremer, H. G. Maynard, P. Meagher, T. C. Sanborn, J. H. Jones. Capital stock, $360,000.

North Moonlight G. S. M. Co.—Humboldt county, N. T. Trustees: B. C. Wattles, A. Fonda, J. R. Coleriek, Henry Dreschfeldt, E. Flanagan. Capital stock, $240,000.

Buena Fe Mining Co.—Copala District, Sinaloa, Mexico. Trustees: E. A. Saxe, E. H. Washburu, E. D. Wheeler, John F. Schulthees, John Stoek, Edward Woodruff and E. T. Peck. Capital stock, $270,000.

South Chrysopolis G. & S. M. Co.—Inyo District, Tulare county. Trustees: Hiram Ayres, Albert Thurber, Wm. Ayres, Holland Garland and Henry Ayres. Capital stock, $180,000.

Santa Catalina M. Co.—Santa Catalina Island, Los Angeles county. Trustees: A. J. Downer, Isaac Swaiu and John F. Pope. Capital stock, $400,000.

Idaho Consolidated G. & S. M. Co.—Inyo District, Tulare county. Trustees: C. Smith, J. C. Hall, W. S. Bell. M. Hopkins and M. G. Elmore. Capital stock, $112,500.

Golden City G. & S. M. Co.—Location and Trustees, same as above. Capital stock, $190,000.

Victory G. and S. M. Co.—Location and Trustees, same as above. Capital stock, $105,000.

Arroyo Seco Copper M. Co.—Amador county. Trustees: J. Mora Moss, Herman Wohler, John McNeely, H. A. Carter, John Nightingale. Capital stock, $650,000.

Rimrose G. and S. M. Co.—Lyon county, Nevada Territory. Trustees: John Sronfe, John J. Ellis, John McBrown. Capital stock, $120,000.

Bella Union G. and S. M. Co.—Arizona Territory. Trustees: John King, R. F. Hayes, Samuel L. Theller, A. C. Whitcomb, J. R. Beard. Capital stock, $1,600,000.

Two Thousand Lives were destroyed by the recent conflagration of the Catholic Cathedral, at Santiago, Chili. The doors opening inward became closed, and the alarmed crowd rushing towards the entrance formed such a press that they could not be opened.

Mr. David Henriques, has our acknowledgements for a copy of the Stock Report Circular received from him.

Nevada Legislature.—The Territorial Legislature is now in session in Carson City, and appears to be a very quiet body.

The Trinity Journal, an exemplary mountain newspaper, has commenced its ninth volume.

Neighborly Opinions.

The following generous expressions of our neighbors are highly appreciated by us, and we return to one and all our best compliments and good wishes. We believe there is no more generous class of men living than the majority of the editors of the interior journals of this State.

We have received No 1 of the enlarged Mining and Scientific Press, published by Dewey & Co., San Francisco. It is greatly improved, and gives promise of an excellent, able and reliable journal.—*Marysville Daily Appeal.*

Mr. A. T. Dewey, a journalist of experience, has become associated with Messrs. Ewer and Smith in the proprietorship and conduct of this paper. It inaugurated the new year by doubling its size and other improvements, and is now a first class journal for miners and mechanics, as well as for the general reader.—*Sacramento Daily Bee*

This journal comes to us this week with a new head and enlarged to the full size of the *Scientific American* published in New York—sixteen pages. Those who take an interest in mining, industry and art should not fail to read the prospectus of the Press, which may be found in our advertising columns, and those who may desire to see copies, intending to subscribe, will have specimens sent free on application by letter to the office of publication.—*Mountain Messenger, La Porte.*

We have received the first number of the eighth volume of this interesting paper. It is now under the control of Friend Dewey, and has been enlarged to sixteen pages. We commend it to miners, stock dealers, and others taking an interest in the development of the mineral lands of this State. It can be had for $5 a year, and if preserved will make two volumes of interesting matter, containing 416 pages each.—*Red Bluff Independent*

We find its pages filled with mining news and articles of interest to miners and scientific men. Persons interested in mines in this State, Nevada Territory, Arizona or Mexico, should certainly subscribe for the Press.—*Napa Reporter.*

It has been enlarged from eight to sixteen pages, and promises to be a valuable publication.—*Sierra Democrat.*

Is is full of the most valuable reading matter. Those at all interested in mining affairs should subscribe for it at once.—*Alameda Gazette.*

It is devoted to news, art, science and progress, and should receive a liberal support.—*Solano Press.*

The Mining and Scientific Press comes to us enlarged to double its old dimensions, and otherwise improved. The Press is the only journal on this coast devoted exclusively to mining and scientific matters, and should be read by miners everywhere. It is published weekly, at $5 per year.—*Oroville Union.*

To all persons interested in mining and mechanics, it is valuable. *An Unknown Paper.*

We are pleased to welcome this excellent paper in its handsome new dress and enlarged proportions, the energetic proprietors having commenced its eighth volume with a double sheet.—*Ione Chronicle.*

This valuable mining journal comes to us this week in a new dress and wears a very happy face. The improvements in that paper cannot but bespeak for it a liberal patronage of all those interested in mining—and who is not in this age and country?—*The Gleaner.*

The Press is exclusively a mining journal, and is one of the ablest sheets of its kind published in the United States.—*Calaveras Chronicle.*

We desire to call the attention of our readers to the advertisement of the Mining and Scientific Press, published at San Francisco. It tells its own story, and leaves nothing for us to say, except that it is the best journal of the kind now published, and ought to be patronized liberally by the merchants, miners and scientific men generally on the Pacific coast. The editors are reliable gentlemen, and well qualified for the task they have undertaken.—*North San Juan Press*

We note with pleasure recent improvements in this publication. With the new year, it becomes a sheet of sixteen instead of eight pages, and has a more attractive typographical appearance. C. W. M. Smith. W. B. Ewer, and A. T. Dewey are the publishers under the title of Dewey & Co. We notice that several distinguished occasional contributors have been engaged to add to the interest and value of the paper. We wish the enterprising contributors continued success. Their influence in the relation to the mining interest of this Coast is excellent and important; and they deserve, as no doubt they will receive, a large patronage from a numerous public, interested in the development of mineral wealth.—*The Evangel, S. F.*

Discovery.—Mr. Harnett agent for the Mining and Scientific Press presented us with a specimen of copper ore, discovered by him on Wood's creek, about a mile below Sonora. It is in appearance a fine quality of sulphurets in a matrix of quartz—the quartz showing in a soft, talcose slate on each side. If prospectors would only be active, there is no doubt Sonora would again be an important mining camp, as nearly all the discoveries of copper and silver have been made in the neighborhood of known rich gold camps.—*American Flag, Sonora.*

Miscellaneous Information.

Gigantic Pair of Shears.—An immense pair of shears has just been completed by a firm in Birmingham, England, for the Russian Government. It is what is known in the trade as a "horizontal hydraulic shearing machine, with open mouth," and is said to be the largest and most powerful contrivance of the kind ever fabricated. It weighs 24 tons, has a pressure power of 1,000 tons, and can break a bar of iron half a foot square. The cylinder of the machine may be used as a hydraulic press of a thousand tons power; the machine is fitted with valve arrangements to reverse itself at any length of stroke; it may be set to cut iron from half an inch thick to six inches thick; when at full power it will cut a bar of iron six inches square in forty seconds; and the return motion is six times as fast as the cutting motion. To this it may be added that the castiug weighs 18 tons, and that the fittings weigh about six tons The blades are of hardened cast-steel. The force pumps for the machine are so arranged that they can be set to any power, and being set to that power cannot go beyond it, but as soon as they reach it retreat. The machine is intended to be used as a "scrapping machine," in a large ironworks in the neighborhood of St. Petersburg. The immovable parts of the machine are manufactured from cannon dropped into the sea during the great siege of Gibraltar by the Spaniards.

A Novel Project.—Various projects have been suggested with the view of effecting a more speedy conveyance of letters and parcels between England and France. A submarine tuunel, similar to that under the Thames, has been proposed, and seriously considered. A pneumatic telegraph has also been proposed. The latest, however, is the proposition to erect in both countries, at a distance of about one thousand metres from the coast of Calais and Dover, a strong edifice of masonry, containing a steam engine of sufficient power, by means of which an immense wheel, twenty-five metres in diameter, is made to turn forty times a minute. By this rotation a series of wires, forming a gigantic strap, extending across the channel, is coiled round the wheel at one end, say at Dover, and uncoiled at the other, Calais, and conversely. To this strap India-rubber bags are to be attached, so that, within the short space of only twelve minutes, the letters and dispatches of one country may be safely landed in the other.

Sewing Machines.—Notwithstanding the great degree of perfection to which the sewing machine has been carried, all efforts have failed, until quite recently, to produce one which would work *button holes*. Mechanical ingenuity has at last, however, triumphed—this new and novel feature has been fairly introduced. At the recent Fair of the American Institute in New York, a machine was on exhibition that worked one thousand button holes per day in a manner that for elegance and strength far exceeded the old method of working them.

New Guns.—Captain Ericsson has contracted to furnish some 13-inch smooth bore guns, which are to have a much greater velocity than any now in use. He is to receive nothing for these guns unless they burn over fifty pounds of powder—for every pound of powder beyond fifty, Mr. Ericsson is to receive $5,000. He is confident of being able to burn 100 pounds, and is quite certain of burning at least 75 or 80 pounds. The solid shot which this gun is intended to carry will weigh 220 pounds.

Officers of the Mercantile Library Association.—The following is a list of the officers elected by this institution on Monday last: President, G. W. Bell; Corresponding Secretary, L. S. Pease; Recording Secretary, Coll. Dean; Treasurer, J. M. Shotwell; Trustees—W. M. Noyes, G. T. Hawley, Robert Simpson, J. W. Cox, J. F. Pope, J. H. Wildes, Wm. Wadhams, Wm. H. Eldridge, John Y. Lind.

To Keep Chimnies Clean.—Instead of plastering the inside of chimnies the usual way, the Albany *Cultivator* says, take mortar made of one peck of salt to a bushel of lime, adding as much sand loam as will render fit to work, and then lay on a thick coat. If the chimney has no offsets for the soot to lodge on, it will continue perfectly clean.

Slate Quarries in Vermont and Canada.—Mr. R. Bell, of the Geological Survey, in a paper on this subject, read before the Canadian Natural History Society, says that the annual value of the slates produced in Wales alone is nearly £1,000,000 sterling, and the nett profits of many of the companies engaged in this branch of industry are upwards of 50 per cent. The most important slate-producing districts in North America is situated in Vermont. But little of the deposit in Eastern Vermont could be profitably worked, "owing to contortions, imperfect cleavage, cross-joints, and the presence of foreign ingredients." Bands suitable for the manufacture of roofing slate were only found occasionally in this district. The quarries in the western part of Vermont appear to be more productive than those in the eastern part of the State. It seems that this slate is used for other purposes than roofing. Mantel-pieces, table and bureau tops, billiard-table beds and lamp bottoms are manufactured from it The slates produced from the Northfield Quarries, Vermont, sell at $3½ a "square," delivered in the cars. In Canada the price is 50 cents less per square, delivered at Richmond. A square of slates is 100 square feet; and the greater the number of slates making up this area, the less the price. The most important slate quarries in Canada occur in the eastern townships. Geologically speaking, they belong to rocks of the Quebec group. The author described other probably favorable localities for roofing slates in Eastern and Western Canada.

Chilian Railroads and Mines.—A correspondent of the New York *Herald*, writing from Panama, November 23, says:

The famous contractor and capitalist, Mr. Brassy, who has constructed nearly all the railways in Spain and India, has sent an agent to Chile—a Mr Bayles—with instructions to tender for all the railroads the government of Chile may desire to contract for and guarantees an interest of six per cent. per annum on all the capital invested. The agent, Mr. Bayles, is now on a tour of inspection, examining the southern provinces as to localities. A privilege has been asked for to construct branch lines to the Central Railroad, which will connect the main line with several suburbs east of the capital.

From the mining districts we have but little information. An inundation of one of the shafts in the coal mines of Señors Rojas & Co., near Coronel, has taken place. It was stated that this accident had destroyed some sixteen miners; but later information says that eight have been since rescued, and it was hoped that all would be saved. The coal mines at Coronel have been doing remarkably well during the month of October, thirty-six hundred tons having been shipped during that period.

Frightened.—It is said that the only frightened subjects in Charleston, during the present bombardment of that city, are the pigeons, which abound there in great numbers. At every report they rise into the air from all parts of the city, and fly about in the greatest consternation. During the days when the fighting is kept up pretty briskly on both sides, they are scarcely able to take rest at all, or to procure food, and as a consequence great numbers are found dead in the street and about the yards and vacant lots of the city.

Opposition on the Colorado.—The movement for establishing an opposition steam line on the Colorado has assumed a definite form, and bids fair to become a success at no distant day. When the new boat now building for the Colorado Navigation Company in this city, and that of the Miners' Colorado Steamboat Company, commence running, the condition of affairs in the mining districts of Arizona and Southeastern California will rapidly change for the better.

Gold from the North.—The amount of gold exported from Victoria to Europe and the United States since 1858 is $10,200,134. But this was only through the ordinary banking channels, and the Victoria *Chronicle* thinks as much more was contributed through other parties. It would probably be safe to rate the amount through other channels at half the *Chronicle's* estimate, which would give the total product of the colony something over $15,000,000.

Hydraulic forging presses are coming into use in England, in place of hammers.

Force of Gun Powder.—Much uneasiness is felt in some of the Eastern cities with regard to the immense stores of gun powder which are collected in the immediate vicinity of those cities. Some of these magazines contain quantities as large as 500 tons! The terrible consequences which would result from an explosion of such a mass of powder are fearful to contemplate. If it should occur near a large city, it would level spire and dome, and bury thousands beneath its ruins. By the explosion of a far less quantity of powder than that named, an entire quarter of the city of Leyden was destroyed in 1807, and one hundred and fifty persons perished in the ruins. Extraordinary precautions are ordered to be taken by those who have any connection with the handling of powder and loaded shells in the various magazines; still it is feared that some accident may happen, and it is suggested that these depots should be removed to more sparsely populated neighborhoods.

Flax *vs.* Cotton.—It will be recollected that the Agricultural Department at Washington, some time ago, appointed a Commission to enquire into the practicability and economy of so preparing hemp and flax as to render it a fit substitute for cotton The Commission has given notice of an adjourned meeting to be held on the 24th of next month, at which all persons are invited to be present who are willing to aid in the object, or who have attempted any experiment in that direction, either in the way of preparing the fabric or constructing suitable machinery for such a purpose. It may not be uninteresting to state in this connection that a factory has recently been put up at Cleveland, Ohio, for preparing flax, to be used either in connection with cotton, or separately, in the place of cotton. This factory is turning out flax, so proposed, at the rate of 2,000 pounds per day The material is prepared for a company engaged at the East in the manufacture of satinets.

The public lamp-posts at Paris, which are of cast iron, are being coated with copper, by electro-depositing, so as to have all the effects of bronze. The large fountains in the Place de la Concorde have recently been taken to pieces in order to be thus covered. The work is done by M. Oudry, at Anteil, who is carrying on electro-depositing on a gigantic scale. He has recently completed a full-sized copy in copper deposit of Trajan's column at Rome.

Milking Machines.—No machine has yet been devised for milking which stands the test of use. Few, if any, of the many articles patented for this purpose are now offered for sale. The field of invention in this direction is still open.

McCue informs the *Transcript* that he will positively put on a daily line between Sacramento and Virginia city, running through Grass Valley and Nevada, commencing on the first of March.

It is proposed to organize on territory which now belongs to Amador, El Dorado and Mono, a new county to be called Alpine. The county seat will be Markleeville, and the western boundary of this new county will be the summit of the Sierra Nevada.

The Golden City brought 639 passengers and 1,700 tons of freight, on her last trip from Panama.

The catholics of San Leandro are building a chapel. The building is to be a gothic structure, with a spire 96 feet high.

Counterfeit silver coin, which has appeared in large quantities, is believed to be manufactured in San Francisco. It may be detected by observing the defective milling.

It is calculated that at the present time there are about 260,000 English vessels on the sea, and that they are manned by above 1,500,000 seamen.

The total valuation of taxable property for 1863 in California, was over $174,000,000; an increase of $14,000,000 over that of the previous year.

Henry C. Taylor, the oldest editor and newspaper man in California, died on Monday in this city.

The debt of Colusa county, according to the *Sun*, is $35,000.

The Austrian Government recently purchased machinery for making rifles, of a firm in Hartford, Conn.

Patent Department.

A New Hydraulic Hose Nozzle—*A California Invention.*—Seth Martin, of Little York, in this State, has just received letters patent for an improved "Hydraulic Hose Nozzle," designed to accomplish an important purpose, as hereinafter described. The ordinary hose pipe in use for hydraulic mining, as is well known, is very apt to spread or scatter the stream, partly in consequence of the abrupt taper form of the short pipe employed, and partly in consequence of the adjoining portions of the hose, which is almost invariably twisted or crooked near its junction with the pipe. The spreading or scattering of the stream detracts greatly from its efficiency. The object of this invention is to remedy this difficulty. This is said to be effectually accomplished by means of internal radial plates, which constitute the essential portion of the invention.

Quartz Crusher or Amalgamator.—*Another California Invention.*—P. M. Randall, of this city has taken out a patent for an Amalgamator for reducing quartz pulps and amalgamating the gold which may be contained therein. The invention is also applicable for the reduction of any other substance of a pulpy or pasty consisteney. In his specifications, the inventor claims a rotary muller, provided at its face side with grooves of involate or other form, which will force the substances to be acted upon from the periphery of the muller towards its centre, and thence upward through the muller, so that the substances may be expelled again, by centrifugal force, toward the periphery of the muller, and thence again underneath, to be again forced toward the centre as before.

An Improved Amalgamator—*A California Invention.*—Mr. Zenas Wheeler, of this city, already widely and favorably known to the mining public of the Pacific coast as a practical and successful inventor, has obtained letters patent for still further improvements in amalgamating pans, by which the important work of amalgamating may be conducted with greater economy and a still nearer approach to perfection. The practical knowledge of Mr. Wheeler in this department of mining is a sufficient guarantee that any invention emanating from his brain will not fail to show an improvement over processes previously employed. We shall probably be able to speak more fully of this invention at an early day.

India-Rubber Soles.—Mr. McBurney, of Roxbury, has patented a new article of manufacture—a sole for boots or shoes, made of vulcanized india rubber. The soles, as manufactured by him, are provided with holes already perforated for the reception of nails, pegs or threads, by which the sole may be readily attached to the uppers without any subsequent process of piercing or cutting holes. This sole is so constructed that it may be readily and securely attached to any upper, in such a manner as to form as neat a piece of work as though the sole was formed, as usual, of leather. The advantage of such an invention must be apparent both as a matter of economy and comfort. The chief advantage of a rubber shoe is thus obtained without the serious drawback of confined perspiration, so injurious to health, by the use of rubber uppers. The difficulty of accomplishing this end has hitherto been found in the inability of the manufacturer to make a neat and water-tight union between the rubber and leather. This result seems to have been obtained by Mr. McBurney. Any shoe-dealer in this city who may be able to supply himself with this article, before the rainy season is over, will not fail to do a thriving business.

The Mining and Scientific Press Patent Agency.

OFFICE, 57, GOVERNMENT HOUSE, SAN FRANCISCO.

Information About Obtaining Patents.

The Patent Law Amendment Act, of March 3th 1861, and March 3d 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent? A positive answer to this question is only to be had by presenting a formal application for patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the Mining and Scientific Press. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Preliminary Examinations.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search, made at the U. S. Patent Office, Washington, through the medium of our associate in that city, to ascertain whether among all the patents and models there stored, any invention can be found which is similar in character to that of the applicant. On the completion of this special search we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollars. This search, though it involves the expense just named, will usually prove satisfactory. If the same device has been before patented, the time and expense of constructing models, preparing documents, etc., will in most cases be saved; if the invention has been in part patented, the applicant will be enabled to modify his claims and expectations accordingly. Many other obvious advantages attending the Preliminary Examination; although the strictest search does not always enable the applicant to know positively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publication; or some other person has been previously rejected on an analagous device; or some other invention for a similar purpose, but partially resembles the applicant's in its construction; or the Government makes an unjust or uncommon decision. Against none of these contingencies does the Preliminary Examination provide; it will, however, generally inform the applicant whether an improvement similar to his and used for the same purpose has ever been patented or not in this country.

Persons desiring the Preliminary examination are requested to remit the fee ($10), and furnish us with a sketch and description of the invention.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian, Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of governments that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, prosecuting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $30. If the patent is granted no further agency expenses ensues.—If the application is rejected we cause a thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have access to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client. For this service we make no charge. If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction, and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The laws requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: Dewey & Co., Mining and Scientific Press, rooms 56 and 57, Government House, corner of Sansome and Washington Streets, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail.—The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due, and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued, the applicant will be notified to remit the last installment of the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our Agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Return of Models.

Under the new law, if the applicants case has been rejected he is entitled to withdraw his model from the Patent Office.

This law applies to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expense

Application for Patents, Designs, Trade-Marks, Labells, etc.

Under the new law patents may be taken out for any new form of any article, also for tools, patterns, castings, machine-frames, stove-plates, borders, fringes, all new designs for printing, weaving or stamping upon silks, calicoes, carpets, oil-cloth, prints, paper-hangings, and other articles. Trade-marks, labels, envelopes, boxes and bottles for goods, may also be patented; likewise all works of art, including prints, paintings, busts, statues, bas-relief, or compositions in allo, or basso relievo, new dies, impressions, ornaments to be placed upon any article of manufacture, architectural work, etc.

Our facilities for the prompt preparation and securing of patents are of the most extensive character and our charges are very moderate.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the tariff of fees established by law:

On every application for a design, for 3 years and six months	$10 00
On every application for a design, for seven years	15 00
On every application for a design, for fourteen years	30 00
On every caveat	10 00
On every application for a patent	15 00
On issuing each original patent	20 00
On filing a disclaimer	10 00
On every application for a re-issue	30 00
On every additional patent granted on a re-issue	30 00
On every application for an extension	50 00
On the grant of every extension	50 00
On appeal to the Commissioner from Examiners-in-chief	20 00
On every appeal to the Judges of Circuit Court, D. C.	25 00

Infringements.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunction from the Court, to an arrest of or prohibition from the employment of his machinery, shop, works, factory and men in production of the article.

In addition to injunction the infringer is liable to be mulched in treble the amount of damages awarded by the jury. The maker, the workman, the seller, and the purchaser, if a user, are all liable either collectively or individually.

Having access to all the patents, models, public records, drawings and other documents pertaining to the Patent Office, we are prepared to make examinations and give opinions upon all infringement questions, advise as to the scope and ground covered by patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Appeals.

In rejected and other cases, the new law provides for an appeal from the Examiner-in-chief to the Commissioner in person, on the payment of a fee of twenty dollars. A further appeal may be taken from the decision of the Commissioner to the U. S. Court, of the District of Columbia. These appeals are heard by any of the Judges before whom the applicant elects to bring the case. No Jury. All the papers, models, etc., are sent by the Commissioner to the Judge, who then reviews the case, and either sustains or reverses the Commissioner's decision.

The party taking the appeal pays an additional fee of twenty-five dollars. The Judge appoints a day of hearing. The applicant can appear in person or by counsel to state his case and file a written argument. Five days are allowed the opponent to put in an answer, and a similar period to the appelant for a closing reply.

Many important cases are brought before the Judges on appeal and the decisions of the Commissioner are not unfrequently reversed.

We have had successful experience in conducting these appeal and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, Government House, corner Sansome and Washington streets, San Francisco.

Patent Claims.—We will furnish, on application, the claim of any invention that has been patented within the last fourteen years. The name of the patentee, date of patent, when known, and two dollars for copying, should be sent.

Back Numbers.—We have a limited number of past volumes of the Press on hand, which will be sold, neatly bound, at reasonable rates. A portion of the back numbers of the paper can be had by the single copy.

Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

C. W. H. SMITH. W. B. EWER. A. T. DEWEY.

DEWEY & CO., Publishers.

OFFICE in the Government House building, Northwest corner of Washington and Sansome streets, rooms No. 56 and 57, up stairs.

Terms in Advance.—Having adopted the cash system, ALL payments for subscriptions must be made in advance. If old subscribers find their paper discontinued at any time, don't stop to grumble about it, but send in the cash for another year. "Equality is Justice," and we shall administer this doctrine to all our patrons, as well as "the rest of mankind."

San Francisco:

Saturday Morning, January 23, 1864.

A MINING SCHOOL FOR CALIFORNIA.

The Legislature now in session will soon be called upon to take some action to secure the the 500,000 acres of land donated by Congress for the establishment of an Agricultural School, within the limits of the State. The donation is a munificent one, and the State should lose no more time in securing it.

It has been suggested that as the need of a Mining School is quite as imperious, or more so, than one devoted exclusively to Agriculture, and as the finances of the State will not at present admit of the establishment of both, the two might be combined A school in which the two interests might be united would in no wise invalidate our claim to the government donation, or materially interfere with efficient progress in either branch of education.

In an economic point of view the importance of a Mining School far outweighs that of one exclusively devoted to agriculture. The assertion can scarcely be called extravagant that the annual *waste and loss* entailed upon this coast through a lack of a proper knowledge of mining is nearly or quite equal to our total agricultural products. Certainly the proportion of loss in the one from the lack of practical information is many times greater than that of the other. Still in the matter under consideration we simply desire to see both interests placed upon an equality. Our neighbors over the mountains have become fully alive to the importance of such an institution, and, at their recent election made the establishment of a mining school an integral portion of the organization of their proposed new State.

The mining interests of the Pacific Coast are becoming of such vast importance, that our State will be false to her destiny, if she fails through her Legislature, to take some early steps toward the establishment of at least one school, where the principles of the art of mining may be thoroughly taught—not where mining itself shall be taught, but where certain things about mining may be fully and thoroughly learned. Our own is the only enlightened nation on the globe that has neglected to make some provision of this kind, and it seems peculiarly appropriate that California, which is and must ever continue the leading mining State on the continent, should be the first to take this matter in hand. The advantages that would accrue from such an institution, are vast and manifold, and the present is a most opportune moment to move in the matter.

It is but a few years since any important movement, in this direction, has been made in agricultural matters; and who at this day doubts the immense advantages which have thereby been secured to that branch of industry? How rapidly has it advanced under such influences, both as an art and as a science. The culture of the soil through such instrumentality has not only been greatly utilized, but dignified as well, and elevated from a mere dull routine of drudgery to a noble and intellectual pursuit. Whatever has been accomplished in agriculture, and more, may be realized in the equally important and far more intricate pursuit of mining. The boundless wealth which our mines are revealing, and the immense national importance that is accruing from their yield ought to and will ultimately induce our National Legislature to foster and encourage their development, and lend a helping hand in collecting and collating such facts and information as shall have an important value in advancing the economic interest of this important branch of industry. It is to this end that a Mining Bureau has already been proposed at Washington. Let California make it manifest to the powers at our National Capital that her own people take an interest and are willing to extend some pecuniary aid in the establishment of a Mining School, and we may then look with a greater degree of confidence for speedy and liberal national action in that direction. "The gods help those who strive to help themselves."

The subject of Mining Education *in schools*, is so extensive and important that we propose to devote a column or two, for several successive weeks, to its examination and discussion. In the mean time we should be pleased to receive, for publication, practical suggestions from such of our correspondents and readers as may have in their possession facts with regard thereto, derived from personal observation in those countries where such schools have been established—facts either as to the mode of conducting them, or such as may have a bearing upon their practical value to the community.

THE MECHANICS' INSTITUTE AND FAIR.

There are few associations in California which have attained greater success, and none which has conferred more important benefits upon our industrial interests than the MECHANICS' INSTITUTE of this city. The Institute was organized on the 29th of March, 1855, with Benj. Heywood as President; B. B. Dexter, Secretary; H. F. Williams Corresponding Secretary and an efficient Board of Directors. It gradually augumented in numbers, and early laid the foundations for a library, which has been increased from time to time, as means would admit, until it now numbers 17,000 volumes. The library, as it now stands, has been pronounced by competent judges, one of the best selected of its kind in the United States.

The Institute has held three Industrial Exhibitions, and has just taken the initiatory steps for the fourth, which, it is confidently predicted, will not only diffuse new life into the mechanical industry of our State, but will also prove a substantial pecuniary benefit to the Association itself.

The meeting of the Institute, on Wednesday evening last, called for the purpose of empowering the officers to take the necessary steps for holding an Industrial Fair, during the coming Fall, was very fully attended. After an informal preliminary report from the officers, stating what arrangements could be made for holding such an exhibition, the question upon its propriety was put and carried by an unanimous vote. The arrangements proposed are highly advantageous for the Association, and such as to relieve the Institute almost entirely of any pecuniary risk, while the prospects of reaping a rich return, in case of success, are favorable in the highest degree.

The proposed arrangements for the accommodation of exhibitors were stated by the President of the Institute substantially as follows: The basement of Platt's Music Hall, on Montgomery street, is proposed to be made into a single room; the galleries to be planked over and widened 20 feet; and in the alley, leading from Pine street, a one-story temporary wooden building is to be erected to contain all the heavy machinery, ingress to which is to be obtained through a door to be cut through the brick wall of the hall. This wooden building as proposed, will be 137 feet long by 45 feet in width. Besides these rooms, the two small halls in the main buiding are to be connected with the principal hall, and an additional building will be erected on Bush street, next to Calvary Church. These buildings, and rooms, it is estimated will give more exhibition room than the Pavilion and outbuildings especially constructed for the accommodation of the Exhibition of 1860, which was held upon the ground now occupied by the Lick House.

We look forward with no little interest to this Fourth Industrial Exhibition, with the confident expectation that it will not only far exceed either of its predecessors, but compare favorably with any similar exhibition in any other State in the Union. The mechanical interests of California have made rapid and most wonderful progress within the last three years; a progress which we doubt not will be made most particularly manifest at the coming exhibition. It should be the efforts of mechanics everywhere, throughout the entire coast, to add their influence and contribute their efforts toward rendering the coming season an era in the mechanical and manufacturing progress of our growing Pacific Empire.

California, within the two or three years last past, has occupied no unimportant position in the field of INVENTION, and the proposed Fair will afford our mechanics a rare opportunity to bring their inventions to the notice of the public, by placing them on exhibition, where they will be seen by men from all parts of the State and adjoining Territories, not forgetting the new State of Oregon away up in the mountains to the north. By thus placing them on exhibition they will moreover secure for them a wide and extensive notice through the medium of the public press which will be on hand to notice and herald abroad everything new—especially in the line of California invention.

If we may be permitted, we would here offer the suggestion that the coming exhibition should be made, so far as is consistent, a *California Exhibition*—or rather one for the Pacific Coast. No competitors from the Eastern slope of the Rocky Mountains should be allowed to compete for premiums with our own mechanics. Imported productions and machinery, of course should be admitted, so far as there may be room, but should be separately classed and arranged, and allowed to compete only with those of its own class. It appears to us that an increased interest will attach to the proposed exhibition by making it essentially Californian.

OUR MINERS, too, will undoubtedly have a *fair* show at the Fair; a favor which they have never yet enjoyed, more, however, from the lack of opportunity, than from any want of disposition on the part of managers of similar exhibitions heretofore. The mineral display at the proposed exhibition will doubtless form one of its most interesting, most valuable and most attractive features. We presume that the fullest desirable arrangements will be made for a mineral display, which, if properly managed, will far eclipse anything which ever has been or which can be produced in any other country on the globe.

Perhaps we are saying too much, or making our remarks *inopportune*. But we feel a deep interest in everything which relates to the mechanical or mining industry of our State—especially whatever has for its object the promotion, welfare and advancement of the working man. We trust we shall ever be found ready to offer an encouraging word, and whenever it lays in our power, to lend a helping hand to whatever may promote the social intercourse, or elevate the moral and intellectual standing of our fellow mechanics.

ENCOUNAGING.—We acknowledge the reception of a hasty letter of congratulation from one of California's early Pioneers, now traveling in Europe, who is pleased to express much pleasure at being enabled to obtain an occasional sight of the MINING AND SCIENTIFIC PRESS, in those distant countries. We shall be pleased to hear from our correspondent as frequently as business engagements will admit of, and doubt not that he will be able to furnish much valuable information for the readers of the PRESS.

From Lower California.—Reports of a highly favorable character continue to reach us from the mines of Lower California. The Triunfo have their mill nearly completed. It will undoubtedly prove a complete success. The Picacho mill is about ready to work. The Franco-American mill is in need of a practical operator. They have good ore, but the pans don't yield as they should do when their work is compared with the arastra. The Santa Cruz Co. are having a fine steam engine erected upon their claim. The Peninsula and Trinidad Companies are also about to put up a 20-stamp mill.

The La Marroneña Company appear to have the best vein of metal on the Peninsula. They have recently sold about 200 tons of their ore for $30 per ton at the shaft, and can do the same every month. The company expect to commence declaring dividends soon. The cost of extracting their ore is about $5 per ton, and, with sales at $30, they will realize the handsome profit of $25 per ton, or $5,000 per month, to be divided among 1,000 shares, equal to 2½ per cent. per month on $200 per share.

The San Antonio Company are coming into a fine vein of metal. The Peña Company's tunnel is almost completed. This mine has an abundance of ore, and three veins running through its ground. It is one of the most promising mines in the district. The top vein works $120 to the ton in silver. The Kohler Bros. claims are being well worked, and the Espenosaña mine can turn out 5,000 tons of ore per month. In short, this is a most flourishing mining district, and its mines already occupy an important position in the silver mining share market.

Magnificent Specimens.—A lot of magnificent specimens of silver ore was shown us a few days since from the Carmen mine, near Batapilas, in Chihuahua, Mexico. Some three hundred pounds of this ore—bullion would be a more proper term for it—was recently brought to this city, as evidence of the value of the mine. This ore is valued at $27,000 per ton, and we do not believe it is over estimated. We understand that three-fourths of this mine recently changed hands at $25,000 per share. Some of the finest specimens of native silver, in its massive state, ever found, have been taken from this mine. Dana, in his "System of Mineralogy," page 535, mentions a specimen weighing 400 lbs, which was taken from it. Native Silver is seldom found massive; it usually occurs in arborescences or filiform shapes. Filiform or "wire silver" is its most common condition when found native. In the town of Batapilas some of the richest specimens of this ore passes as currency at the rate of $7 per mark (eight ounces.) One of the specimens, selected from the above mentioned lot and weighing 20 pounds has been sent to President Lincoln. This specimen showed a vein of native silver fully an inch thick, running entirely through it. It will probably astonish the chiefs at the National Capital.

The Beauty of the Kindlier Season is well upon us. Even in the slant sunbeams of mid winter, we of California are blessed with summer scenes and bright green fields, beautified with starry flowers. While our Atlantic friends, in corresponding latitudes, are suffering from pinching frost and traversing snow-clad fields, we, of the genial Pacific slope, walk forth upon the beautiful greensward, tinted with fairy blossoms, or along our gravelled walks fringed with living verdure, as livid and beautiful as we erst did witness in the gay spring time of our Eastern homes. No darkening frost ever spreads its withering pall over a San Francisco landscape. Fairies here, may ever find their blooming dells and sylvan grottoes wherein to trip the mimic dance. No fair Italian sky breathes softer zephyrs than are oftimes wafted over our own beautiful bay, even in what the almanacs style our wintriest month. Who that has experienced it is not delighted with our California climate and California scenery—and, indeed, with everything else in our Golden State that is not needlessly and wickedly abused!

MINING SHARE MARKET.

The mining share market still continues active, with large transactions in speculative shares, but not generally declining rates. The total sales of the week since our last issue, foot up at $1,832,290 37, exceeding by upwards of $800,000 the sales of the previous week.

Ophir shares have been moderately dealt in, at lower rates than ruled last week. A slight improvement was manifested yesterday. The company is somewhat reticent with regard to its business affairs, yet it is considered to be in a prosperous condition, and retains the entire confidence of capitalists. The receipts of the Company from December, 1862, to December, 1863, were $1,874,863; $1,080,529 92 were disbursed in current expenses, for the purchase of Virginia Mine, etc., and $625,200 were paid in dividends—an average of $39 per foot per month.

Gould & Curry declined to $4,925 on Tuesday and Wednesday, but recovered to $4,975 on Thursday, at which figure it is firmly held, with but little offering.

Savage has materially improved, and is much sought after. We quote sales at $3,000 on Tuesday, an advance of over $200 since last quotation. On Wednesday it met with still further improvement, and found buyers at $3,100. During the past five months this mine has yielded in bullion $413,125, and the Company have paid since August last monthly dividends of $50 per foot.

Challar has rallied somewhat, but has been lightly dealt in the past week at fluctuating rates. We understand that highly favorable reports were received from the mine yesterday, to the effect that ore of remarkable richness has been struck in the third gallery. Closing sales yesterday are quoted at $395, with an upward tendency. Stockholders in this mine have been thus far assessed to the extent of about $110 per foot, or $300,000 in the aggregate, which, together with the current assessments, has all been absorbed in improvements, etc.

Hale and Norcross still continues inactive. We quote a single transaction at $800; holders firm at $885. Favorable reports are coming to hand from the mine. This stock has been assessed to the present time to the amount of $225 per foot, and is out of debt.

Lady Bryan is less active than for a few weeks past. We quote sales of 1,655 shares at from $53 @60.

The Desert is also declining in interest, but is firmly held at from $20@22.

Burning Moscow is comparatively quiet. Sales have been made the past week at declining rates. From $135 on Monday, it gradually declined to $105, b 30@110 yesterday. Since the incorporation of this Company, $45 per foot on 2,400 feet has been assessed and paid into the treasury, and $10 per foot upon 4,100 feet is now delinquent, amounting in all to $149,000—equivalent to $36 34 per foot on the present number of shares. $50,000 in bullion has been taken from the mine.

North American is well maintained at about last quotations. We quote closing sales at $88.

Baltimore American has declined a shade. We quote sales of 363 shares at from $33½@37½. An assessment of $5 per foot was levied some ten days since.

Burnside is enquired for to considerable extent, and has met with buyers at from $15@20. 426 shares have changed hands since our last issue.

Adriatic has found buyers during the week at from $12@13.

Blue Ledge has been considerably enquired after at improving rates. We quote sales of 228 shares at from $9@12.

Josephine is not in much request. We quote at 130.

Harmon has been considerably enquired for the past week at considerable advance. We quote sales at from $20@25. We understand some very fine specimens were received from this mine yesterday from a recent favorable development.

Melones which had declined within the past ten days from $60@40, recovered yesterday to $45 @50. We learn that the company has again struck rich rock.

Real Del Monte has formed the chief feature of the market during the past week. 2034 shares have changed hands gradually declining rates. The market opened on Monday at $280, and continued to decline, with large sales, until yesterday when it reached $165. Large sales were made the previous week, at from $240@360. Various reasons are assigned for the sudden and important decline in this stock. But as no information has reached us of an authentic character, we refrain from particular comment. We learn from good authority that in the settlement with the Pond and Ural companies the Directors of the Del Monte made over to them 417 shares of Del Monte stock, which they (the Directors) went into the market and purchased. This purchase, we have further understood, was made at a high figure and on long time, to be paid from the net earnings of the mine.

Wide West has met with about its usual business. We quote sales of 96 shares at from $45 @ 55.

Silver Hill has been in some demand at declining rates. Opening at $20, it gradually declined to $15 and $16, b 30, at yesterday's Board.

Utah has been in but little demand. We quote sales at from $23 @ 25.

Antelope continues in favor; has found buyers at from $257½ @ 260. This stock is held firmly; but little offering.

Sheba is inactive. We quote sales of 20 shares at $145, and 38 shares at $130. The condition of this company is by no means unfavorable as may be gathered from the following paragraph which we clip from the last issue of the Associated Stock Brokers' Circular: "The company intend shipping to Europe, in April next, about 75 tons of first class ore, which, it is thought, will yield $800 per ton. The expense of transportation hence from the mine will amount to $75 per ton. There are also 1,200 tons second class ores on hand at the mine, assaying from $250 to $500. This company is represented as being out of debt, with sufficient funds in the treasury to continue operations for the ensuing 90 days—$57,600 ($32 per foot) has thus far been levied.

Amador, R. R., is held at about $300. Work on the several tunnels of this claim are said to be progressing rapidly, and a large number of men are employed. By means of ditches and open cuts the lode has been traced a distance of 2,000 feet, and at every point where exposed valuable ore is to be seen. There are 250 tons of ore on hand at the mine.

A Mining Advertiser.—Next Saturday we shall issue a "Mining Advertiser," by placing the advertising pages of the Press, with the stock reports and other matter, into a smaller sheet, several thousand copies of which will be circulated gratuitously throughout this city and the interior of California and Nevada Territory. We do this to give mining companies the benefit of an extraordinary large circulation for their advertisements, and present a channel through which all mining notices may be cheaply consolidated into one sheet for the convenient reference of all stockholders. Secretaries of companies will please hand in their favors as early in the week as possible—not later than Friday. Rates for advertising mining notices, $2 50 per square of ten lines, per month. Advertisements will appear both in the Press and Advertiser.

"None so Blind as those who do not wish to See," etc.—We are happy to notice the generous reception given the recent improvements of the Press, by the interior journals of the State, which contrasts significantly with the mute silence of our neighbors in this city. From the latter class, however, we make honorable exceptions of the religious *Evangel* and *Gleaner*, and the *Sunday Mercury*.

Important Success.

Those of our readers who were with us some eight months since, will recollect that we gave a detailed account of the successful working of a new process for treating gold ores—particularly those largely charged with sulphurets—which had just been introduced into the Pikes Peak mines. This process was known as the "Keiths Desulphurizing Process." Soon afterward we understood the process did not promise so well, but that further experiments were to be made, which it was confidently predicted would result in a more unqualified success. We have watched with much interest for further developments, which have at length come to hand in the *Colorado Mining Register* of December 31st, from which we extract as follows:

Our mining men have long looked with anxiety upon every new method of treating ores introduced here. The fact that we have been able to obtain not more than twenty-five per cent. of the gold contained in them, and that it has frequently been much less, had induced the hope and belief that some method should be discovered whereby better results might be obtained. The results obtained a year ago by Dr. Keith, by means of desulphurization and calcination, gave rise to the expectation that his method would succeed. Imperfections, however, in the machinery and apparatus employed, gave a serious check to the anticipations of those not directly interested in the experiments which were being made. Nothing daunted by the apparent failure, Mr. Keith returned to New York, and formed a powerful company there under the name of Keith, Mohler & Co. They brought here last summer the finest engine in the Territory and with it several modified Howell crushers and other machinery. They have now got it in working order, and last week made their first run. They crushed one cord (14,700 pounds by actual weight) of second quality ores from the Gregory Lode, such as have hitherto yielded only $100 per cord by the usual method. This, after being desulphurized and calcined, weighed only 8,871 pounds, or but little more than one-half the original amount, the waste, composed of sulphur and other volatile substances, having passed off in vapor. The ores, after being thus treated, were run through a Frieburg pan for amalgamation, and yielded thirty-six ounces of superior retort, worth $864 in currency. This, as will be seen, is nearly nine times the amount formerly obtained.

We give this statement of the result of this run, and of the quality of ores, as reported to us by Dr. B. Keith, in whose statements we have the fullest confidence. Previous experiments have given similar results, and afford increased proof of the utility of the process. The result is a very flattering one to the people of Colorado, as the practicability of this method is now fully demonstrated. From eighty to ninety per cent. of the gold can by this method be constantly saved from the ores. It also enables our people to work successfully a class of ores well known to be rich, but from which we have hitherto failed to separate the gold on account of the presence of arsenic, antimony and other metals and substances which are readily volatilized.

It will be noticed that the above is but the result of a first trial, with the new machinery. We shall look with much interest for further developments. Should they continue favorable we shall again lay before our readers a full detail of the process, together with such improvements, so far as we can obtain them, as have recently been made.

Terrific Locomotive Explosion.—A terrific locomotive boiler explosion recently occurred on the Central Railroad, in New York, while the train was under headway. The boiler itself was thrown 825 feet into an adjoining field. The balance of the locomotive was thrown in every direction.

A Mining Stock Board has recently been established at Victoria. Transactions will hereafter be regularly quoted. The fact is important as showing the permanency of the mines in that region, and that capitalists are inclined to encourage their development.

Mail *via* Henness Pass.—At the instance of Senator Conness bids will be asked in the next schedule for carrying the mails between Nevada Territory and California over the Henness Pass route.

Mining Laws---A Good Suggestion.

The Calaveras *Chronicle* makes the following excellent suggestion with regard to collecting the local mining laws of the State for preservation and convenient reference. It is certainly a most important and very proper matter for legislative action:

"There should be some method devised by which the Mining Laws of the different districts could be so consolidated and arranged that in each county, at least, there would be a written code, which should be published and preserved in the Recorder's office. At present every mining district has its rules and regulations, and it is often impossible for parties to find out the laws of any particular camp. The Courts respect the laws of each district, but as there has been no provision made for publishing them, they are liable to be lost or destroyed, thus subjecting parties litigant to much trouble and expense. We now have the advantage of a long experience in mining, and know the wants of the miners, and it would not require much time for a body of delegates, elected from the mining districts, to frame such laws as are needed within the bounadaries of a county. Gold, silver and copper interests could be arranged under appropriate sections, so that there would be no conflict between the several kinds of mining. The advantages of such a system are apparent to all; and if the Legislature would pass an Act authorizing such conventions, and make their laws valid, we believe all of the mining counties would adopt the proposition. The tendency would be to lessen litigation, as much of it is now caused by parties trespassing upon the rights of others through ignorance of the mining laws of the district.

Gross Carelessness.—It appears by the full accounts which have now come to hand, detailing the loss of the iron-clad Weehawken, that she went down through sheer carelessness on the part of her officers and crew, some thirty of whom found a watery grave with her. Her commander was absent at the time, aboard of the flag-ship, in consultation with the Admiral. The ship lay very low in the water, and it appears that the forward hatch was carelessly left off, into which the water rushed, in a continuous stream, as soon as the gale became sufficiently furious to raise a very heavy swell. The officers in charge were not aware of their danger until it was too late to save the ship—a panic having seized the crew as soon as the alarm was given.

Mechanics' Institute Lectures.

A COURSE OF THREE LECTURES WILL BE DELIVERED before the Mechanics' Institute at Music Hall, by the following named gentlemen, who have kindly volunteered their services:—

Professors BREWER and WHITNEY, of the State Geological Survey, and Rev. T. STARR KING.

The Lectures will be delivered as follows:—

THURSDAY EVENING, January 14th, 1864, by Professor Brewer. Subject: Mountain Scenery of California.

THURSDAY EVENING, January 28th, 1864, by Professor Whitney. Subject: —— ——.

THURSDAY EVENING, February 11th, 1864, by Rev. T. Starr King. Subject: —— ——.

Single Tickets, $2; Tickets for Gentleman and Lady, $3.50; Tickets for the Course for a Gentleman and Lady, $4. 2-tf

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For further particulars he would refer to J. Burnet, Esq., 425 Davis St., San Francisco, Cal. C. W. TAPPEN.

El Paso, June 21, 1863. au31-tf.

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No quicksilver lies between the surfaces to be ground, but at the circumference and centre of the pan where the metal must pass through it as the pulp circulates.

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Stock Reports.

SAN FRANCISCO STOCK BOARDS.

Sales by the San Francisco Stock and Exchange Board, and the San Francisco Board of Brokers.

[Revised for the Mining and Scientific Press.]

SATURDAY, JANUARY 16, 1864.

S. F. S. AND E. BOARD.

5 shares Burning Moscow at $132½ per foot.
5 shares Burning Moscow at 137½ per foot—buyer 30 days.
5 shares Burning Moscow at 135 per foot.
10 shares Burning Moscow at 135 per foot—regular way.
5 shares Burning Moscow at 138 per foot.
10 shares Burning Moscow at 145 per foot—b 30.
10 shares Norton at $8 per share.
55 shares Burnside at $20 per share.
70 shares Burnside at 19 per share.
10 shares Burnside at 18¾ per share.
10 shares Real del Monte at $250 per share.
10 shares Real del Monte at 232½ per share.
35 shares Real del Monte at 230 per share.
10 shares Real del Monte at 250 per share—b 30.
5 shares Melones at $42½ per share.
15 shares Melones at 41 per share.
10 shares Blue Ledge at $9 per share.
50 shares Blue Ledge at 9½ per share—b 30.
5 shares Napoleon, copper, at $46 per share.
24 shares Silver Hill at $20 per share—b 30.
10 shares Silver Hill at 20 per share.
25 shares Adriatic at $13 per share—b 30.
10 shares Desert at $21 per share.
40 shares Lucerne at $19 per share—b 30.
68 shares Chollar at $410 per foot.
36 shares Ophir at $1550 per foot—r w.
10 shares Sheba at $145 per foot.
10 shares Sheba at 145 per foot—r w.
30 shares Baltimore American at $37½ per share—b 30.
20 shares Baltimore American at 35 per share.
20 shares Baltimore American at 38 per share—b 30.
20 shares Utah at $25 per share—b 30.
15 shares Utah at 23 per share.
30 shares North American at $83 per share.
20 shares Lady Bryan at $53 per share.
5 shares Shelton at $10 per share.

AFTERNOON SESSION.

10 shares Real del Monte at $260 per share.
15 shares Real del Monte at 255 per share.
30 shares Real del Monte at 275 per share.
10 shares Real del Monte at 262½ per share.
5 shares Real del Monte at 265 per share.
25 shares Real del Monte at 275 per share—b 30.
10 shares Real del Monte at 270 per share.
15 shares Real del Monte at 272½ per share.
40 shares Real del Monte at 300 per share—b 60.
10 shares Lady Bryan at $55 per share.
40 shares Lady Bryan at 57½ per share—b 30.
5 shares Lady Bryan at 54 per share.
20 shares Lady Bryan at 55 per share.
10 shares Lady Bryan at 57½ per share—b 30.
20 shares Lady Bryan at 55 per share.
10 shares Lady Bryan at 50 per share—seller 60 days.
22 shares Burning Moscow at $137½ per foot.
45 shares Burning Moscow at 146 per foot—b 30.
10 shares Burning Moscow at 135 per foot—s 30.
30 shares Burning Moscow at 138 per foot.
10 shares Baltimore American at $40 per share—b 30.
5 shares Baltimore American at 39 per share—b 30.
50 shares Adriatic at $12 per share.
20 shares Desert at $21 per share.
10 shares Nevada, J. G., at $110 per share.
2 shares Nevada, J. G., at 105 per share.
20 shares Burnside at $20 per share.
5 shares North Potosi at $85 per share.
50 shares Tri-Union at $11 per share.
40 shares Daney at $66 per foot.
12 shares Ophir at $1550 per foot.
$50,000 Legal Tender Notes at 66 per cent, s 30.
$20,000 Legal Tender Notes at 66¾ per cent, s 30.
$30,000 Legal Tender Notes at 66 per cent, s 30.

S. F. B. OF BROKERS.

10 shares Blue Ledge, El Dorado county at $9.
10 shares Blue Ledge, El Dorado county at 9.
10 shares Blue Ledge, El Dorado county at 9.
10 shares Blue Ledge, El Dorado county at 9.
10 shares Blue Ledge, El Dorado county at 9.
10 shares Blue Ledge El Dorado county at 9.
5 shares Blue Ledge, El Dorado county, at 9¼.
10 shares Blue Ledge, El Dorado county at 9.
8 shares Blue Ledge, El Dorado county at 9.
20 shares Chollar at $430 per foot—b 30.
5 shares Burning Moscow at $140.
10 shares Burnside at $18¾.
10 shares Baltimore American at $33¾.
5 shares Baltimore American at 34.
5 shares Baltimore American at 34.
10 shares Crockett Consolidated at $23.
10 shares Crockett Consolidated at 23.
5 shares Pennsylvania S. M. at $5.
5 shares Harmon at $20.
25 shares Verona R. R. at $9.
10 shares Verona R. R. at 9.
50 shares Ericsson, R. R. at $80.
50 shares Ericsson R. R. at 80.
20 shares Campton E. at $5.
10 shares Campton E. at 5½.
14 shares Cuba at $4¾.
10 shares Cuba at 4¾.
10 shares Cuba at 4¾.
25 shares U. S. M. Co., V. at $3.
20 shares Mt Bullion Cons, R. R., at $3¼.

Sales by the S. F. Stock and Exchange Board,	$203,625 26
Sales by the S. F. Board of Brokers,	12,529 12
Total sales of the day by both Boards,	216,154 37

MONDAY, JANUARY 18, 1864.

S. F. S. AND E. BOARD.

1 share Savage at $3000 per share.
16 shares Norton at $9 per share.
20 shares Norton at 10 per share.
20 shares Norton at 12 per share.
10 shares Norton at 14 per share.
20 shares Burnside at $20 per share.
20 shares Burnside at 19¾ per share.
25 shares Burnside at 19 per share.
10 shares Burnside at 19½ per share
20 shares Adriatic at $12 per share.
10 shares Adriatic at 12½ per share—b 30.
15 shares Adriatic at 11½ per share.
10 shares Wide West at $55 per share—b 30.
2 shares Wide West at 55 per share..
10 shares Utah at $25 per share—r w.
20 shares Silver Hill at $19 per share.
10 shares Silver Hill at 19½ per share.
14 shares Lady Bryan at $56 per share.
70 shares Lady Bryan at 57 per share.
70 shares Lady Bryan at 60 per share—b 30.
25 shares Lady Bryan at 57 per share.
20 shares Lady Bryan at 57½ per share—b 30.
55 shares Lady Bryan at 56 per share.
20 shares Lady Bryan at 54—s 30.
10 shares Lady Bryan at 55 per share—s 30.
10 shares Lady Bryan at 58 per share—b 30.
5 shares Real del Monte at $280 per share—b 30.
5 shares Real del Monte at 275 per share—b 30.
5 shares Real del Monte at 257½ per share.
5 shares Echo at $25 per share.
10 shares Nevada, J. G. at 110 per share—r w.
30 shares Knickerhocker at $20 per share.
10 shares Golden Swan at $29 per share.
8 shares Pride of the West at $75 per share—r w.
15 shares Pride of the West at 77½ per share—r w.
10 shares Pride of the West at 80 per share—r w.
10 shares Gold Canon at $20 per share.
5 shares Melones at $40 per share.
50 shares Blue Ledge, El Dorado at $11½ per share—b 30.
20 shares North American at $80 per share.
20 shares North American at 80 per share—r w.
10 shares Seneca at $20 per share.
20 shares Chollar at $390 per foot.
20 shares Chollar at 400 per foot—b 30.
4 shares Chollar at 370 per foot.
2 shares Hale & Norcross at $900 per foot.
10 shares Hale & Norcross at 900 per foot—b 30.
54 shares Ophir, $1560 per foot—b 15.

AFTERNOON SESSION.

5 shares Real del Monte at $232 per share.
5 shares Real del Monte at 230 per share.
15 shares Real del Monte at 235 per share.
5 shares Real del Monte at 237½ per share.
20 shares Real del Monte at 246 per share—b 30.
20 shares Real del Monte at 245 per share—b 30.
50 shares Real del Monte at 240 per share.
5 shares Real del Monte at 246 per share—b 30.
35 shares Real del Monte at 245 per share—b 30.
10 shares Real del Monte at 257½ per share.
1 shares Burning Moscow at $135 per share
10 shares Burning Moscow at 134 per share
10 shares Burning Moscow at 135 per share
10 shares Silver Hill at $19¼ per share.
10 shares Silver Hill at 19 per share.
65 shares Norton at $14 per share.
10 shares Bullion G. H. at $71 per share.
5 shares Blue Ledge at $10 per share.
27 shares Pride of the West at $80 per share.
10 shares Baltimore America at $38 per share.
20 shares Lady Bryan at $60 per share—b 30.
5 shares Lady Bryan at 55 per share.
8 shares Chollar at $350 per foot.
6 shares Chollar at 340 per foot.
4 shares Gould & Curry at $4925 per foot.
60 shares Daney at $70 per foot.
7 shares Cal. Steam Navigation Co., at $49¼ per cent.
10 shares Knickerbocker at $25 per share.

S. F. B. OF BROKERS.

20 shares Brilliant, S. R., at $15.
10 shares Lady Bryan at 56½.
30 shares Lady Bryan at 56 per share.
20 shares Cuba at 6¼ per share.
30 shares Cuba at 6 per share.
175 shares Gov Downey Consolidated at $5 per share.
50 shares Bankers at $22¼ per share.
25 shares Baron Humboldt at 53¾.
50 shares Baron Humboldt at 6 per share—b 30.
30 shares Silver Eagle, S. V., at $6½.
5 shares Crockett Consolidated at $25.
20 shares Sedgwick, R. R., at $15.
2 shares Beal del Monte at $275 per share—b 30.
2 shares Real del Monte at 280 per share—b 30.

Sales by the S. F. Stock and Exchange Board,	$229,366 25
Sales by the S. F. Board of Brokers,	7,023 75
Total sales of the day, by both Boards,	236,390 00

TUESDAY, JANUARY 12.

S. F. S. AND E. BOARD.

20 shares Chas. Canny at $10 per share.
10 shares Burnside at $18 per share.
5 shares Baltimore American at $35¾ per share—b 30.
120 shares Baltimore American at 35 per share.
20 shares Baltimore American at 37½ per share—b 30.
10 shares Baltimore American at 36 per share.
10 shares Overman at $500 per share.
80 shares Buckeye at $16 per share.
75 shares Adriatic at $12 per share.
30 shares Norton at $13 per share.
5 shares Bullion, G. H., at $72 per share.
5 shares Real del Monte at $232 per share.
10 shares Real del Monte at 230 per share.
20 shares Real del Monte at 225 per share—r w.
10 shares Real del Monte at 220 per share—r w.
10 shares Real del Monte at 215 per share—r w.
50 shares Real del Monte at 215 per share.
10 shares Real del Monte at 210 per share.
5 shares Real del Monte at 212½ per share—r w.
10 shares Real del Monte at 210 per share.
10 shares Real del Monte at 202½ per share.
10 shares Real del Monte at 200 per share.
5 shares Real del Monte at 207½ per share—b 30.
5 shares Real del Monte at 205 per share—b 30.
5 shares Real del Monte at 212½ per share—b 30.
25 shares Real del Monte at 205 per share.
25 shares Lady Bryan at $57½ per share—b 30.
20 shares Lady Bryan at 56 per share.
20 shares Lady Bryan at 55 per share.
20 shares Lady Bryan at 58 per share—b 30,
30 shares Lady Bryan at 54 per share.
20 shares Seneca at 20½ per share.
15 shares South America at $12 per share.
19 shares South American at 13 per share.
10 shares Burning Moscow at $135 per share.
10 shares Burning Moscow at 142½ per share—b 30.
3 shares Burning Moscow at 133 per share.
5 shares Burning Moscow at 140 per share.
5 shares Burning Moscow at 130 per shure—s 30.
10 shares Burning Moscow at 125 per share—s 30.
40 shares Silver Hill at $19 per share.
20 shares Golden Swan at 42 per share.
8 shares Blue Ledge, at $11 per share.
4 shares Chollar at $550 per foot.
40 shares Chollar at 575 per foot—b 30.
52 shares Chollar at 400 per foot—b 30.
32 shares Chollar at 380 per foot.
216 shares Ophir at $1560 per foot.
300 shares State Telegraph at $25 per share.
3 shares Cal. Steam Navigation at $49½ per share.

AFTERNOON SESSION.

10 shares Baltimore American at $35 per share.
10 shares Burning Moscow at $130 per share.
5 shares Burning Moscow at 135 per share—b 30.
5 shares Burning Moscow at 132 per share—b 30.
5 shares Burning Moscow at 132½ per share—b 30.
10 shares Burning Moscow at 130 per share—b 30.
10 shares Burning Moscow at 125 per share.
5 shares Burning Moscow at 118 per share—s 30.
5 shares Bullion, G. H., at $70 per share—s 5.
5 shares Uncle Sam at $500 per share.
25 shares Real del Monte at $220 per share.
15 shares Real del Monte at 225 per share.
10 shares Real del Monte at 227½ per share.
10 shares Real del Monte at 230 per share.
5 shares Real del Monte at 226 per share
10 shares Real del Monte at 225 per share
10 shares Real del Monte at 230 per share—b 30.
10 shares Real del Monte at 224 per share.
4 shares Real del Monte at 220 per share.
30 shares Norton at $12 per share.
3 shares Antelope at $257½ per share.
1 share Savage, $3100 per share.
10 shares Lady Bryan at $53¾ per share.
1 share Imperial at $130 per share.
10 shares Silver Hill at $19 per share.
25 shares Desert at $21 per share.
5 shares Willow Springs at $2 per share.
60 shares Blue Ledge at $12 per share.
10 shares Adriatic at $12 per share.
16 shares Napoleon, copper, at $47 per share.
10 shares Spring Valley water, 48 per cent on amount paid in.
12 shares Gould & Curry at $4925 per foot.
54 shares Ophir at $1560 per foot.

S. F. B. OF BROKERS.

2 shares Diamond, copper, at $13½.
10 shares Harmon, El Dorado county, at $24½
3 shares Wide West at $50 per share.
20 shares Ericsson, R. R. at $80.
30 shares Ericsson, R. R. at 85.
20 shares Broderick at $10.
20 shares Rhode Island at $7.
20 shares Noble Grand, O. R., at $8.
50 shares Bankers at $23.
20 shares American Union, copper, at $5.

Sales by the S. F. Stock and Exchange Board,	$546,619 50
Sales by the S. F. Board of Brokers,	6,322 00
Total sales of the day, by both Boards,	552,941 50

WEDNESDAY, JANUARY 20.

S. F. S. AND E. BOARD.

5 shares Coso at $4 per share.
20 shares Wide West at $50 per share.
10 shares Wide West at 51 per share—b 30.
10 shares Wide West at 50 per share—b 30.
25 shares Antelope at $200 per share.
5 shares Utah at $25 per share—b 30.
25 shares Utah at 23 per share.
1 shares Bullion, G. H. at $70 per share.
12 shares Bullion, G. H., at 73 per share.
45 shares Lady Bryan at $53 per share.
15 shares Lady Bryan at 53½ per share.
5 shares Lady Bryan at 53¼ per share.
30 shares Lady Bryan at 53½ per share.
20 shares Tri-Union at $11 per share.
10 shares Melones at $42½ per share—s 10.
10 shares Melones at 41 per share.
10 shares Beal del Monte, $225 per share.
20 shares Real del Monte at 230 per share—b 30.
5 shares Real del Monte at 215 per share.
10 shares Real del Monte at 222 per share.
10 shares Real del Monte at 225 per share.
90 shares Real del Monte at 220 per share—b 30.
10 shares Real del Monte at 225 per share—b 30.
25 shares Real del Monte at 215 per share.
25 shares Real del Monte at 220 per share—b 30.
10 shares Real del Monte at 214 per share.
5 shares Real del Monte at 212½ per share.
25 shares Beal del Monte at 220 per share—b 30.
35 shares Real del Monte at 210 per share.
10 shares Buckeye at 15 per share.
2 shares Yellow Jacket at $875 per share.
38 shares Baltimore American at $35 per share.
20 shares Baltimore American at 36 per share.
50 shares North American at $83 per share—b 30.
14 shares North American at 80 per share.
10 shares Overman at $500 per share—b 30.
10 shares Sierra Nevada at $86 per share.
10 shares Blue Ledge at $12 per share.
10 shares Desert at $20 per share.
20 shares Burnside at $25 per share.
40 shares Chollar at $380 per foot—s 30.
32 shares Chollar at 420 per foot—b 30.
12 shares Chollar at 400 per foot.
5 shares Chollar at 400 per foot—s 30.
10 shares Hale & Norcross at $800 per foot—b 30.
10 shares San Bruno Turnpike at $11 per share.

AFTERNOON SESSION.

5 shares Standard, B. B., at $32½ per share.
25 shares Tri-Union at $10½ per share.
40 shares Tri-Union at 10 per share.
60 shares Real del Monte at $220 per share—b 30.
15 shares Real del Monte at 215 per share.
10 shares Real del Monte at 210 per share.
10 shares Real del Monte at 207½ per share.
15 shares Real del Monte at 202½ per share.
45 shares Real del Monte at 205 per share—b 30.
35 shares Real del Monte at 200 per share.
10 shares Real del Monte at 202 per share.
30 shares Real del Monte at 200 per share.
5 shares Burning Moscow at $115 per share.
10 shares Burning Moscow at 112 per share.
5 shares Burning Moscow at 120 per share—b 30.
4 shares Burning Moscow at 112½ per share.
110 shares Josephine, Coso, at 11½ per share.
10 shares Lady Bryan at $54 per share.
3 shares Lady Bryan at 55 per share.
25 shares Lady Bryan at 53½ per share.
5 shares Baltimore American at $37½ per share—b 30.
20 shares Potosi at $1050 per foot.
4 shares Chollar at $400 per foot.
2 shares Hale & Norcross at $875 per share—b 30.
2 shares Gould & Curry at $4975 per foot.

S. F. B. OF BROKERS.

150 shares City B. R. Co., at 1¾ premium.
5 shares Coso at $4 per share.
10 shares Napoleon (copper,) $50 per share.
10 shares Harmon, El Dorado county, at $24½ per share.
20 shares Harmon, El Dorado county, at 25 per share.
39 shares Lady Bryan at 53¾ per share.
10 shares Lady Bryan at 54 per share.
4 shares Wide West at $50 per share.
10 shares Crockett Consolidated at $65 per share.
20 shares Bisby Sun, H., at $22.
50 shares Colegrove at $6 per share.
75 shares Gov. Downey Consolidated at $5½ per share.
20 shares Baltimore American at 36 per share—b 30.
20 shares Sedgwick, R. R., at $17½ per share.
20 shares Webb & Conner at $8 per share.
10 shares Cuba, H., at $6 per share.
10 shares Cuba, H., at $6¾ per share.
50 shares Bankers at $23 per share.
25 shares Bankers at $24½—b 30.
35 shares Gibson, S. V., at $11 per share.

Sales by the S. F. Stock and Exchange Board,	$211,567 25
Sales by the S. F. Board of Brokers,	10,221 50
Total sales of the day, of both Boards,	221,788 75

THURSDAY, JANUARY 21.

S. F. S. AND E. BOARD.

5 shares Burning Moscow at $115 per share.
25 shares Burning Moscow at 115 per share—r w.
5 shares Wide West at $50 per share—b 30.
10 shares Wide West at 45 per share.
27 shares Real del Monte at $200 per share.
10 shares Real del Monte at 200 per share—b 30.
5 shares Real del Monte at 205 per share—b 30.
10 shares Real del Monte at 195 per share.
10 shares Real del Monte at 188 per share.
50 shares Beal del Monte at 190 per share—b 60.
5 shares Real del Monte at 200 per share—b 60.
10 shares Real del Monte at 190 per share—c 30.
15 shares Real del Monte at 190 per share—b 60.
10 shares Real del Monte at 180 per share—b 60.
5 shares Real del Monte at 180 per share—b 30.
10 shares Real del Monte at 175 per share—b 30.
10 shares Beal del Monte at 180 per share—b 60.
20 shares Real del Monte at 175 per share—b 60.
15 shares Beal del Monte at 175 per share—b 60.
10 shares Real del Monte at 165 per share—b 30.
5 shares Real del Monte at 160 per share.
15 shares Real del Monte at 170 per share—b 30.
25 shares Beal del Monte at 162½ per share.
5 shares Real del Monte at 163 per share.
10 shares Real del Monte at 175 per share—b 60.
80 shares Beal del Monte at 162½ per share.
5 shares Real del Monte at 153 per share.
5 shares Real del Monte at 175 per share—b 60.
15 shares Real del Monte at 160 per share.
5 shares Real del Monte at 162 per share.
15 shares Real del Monte at 166 per share—b 30.
20 shares Silver Hill at $18 per share—b 30.
83 shares Lady Bryan at $53¾ per share.
5 shares Lady Bryan at 54 per share.
10 shares Lady Bryan at 57½ per share—b 30.
10 shares Lady Bryan at 55 per share.
20 shares Lady Bryan at 56 per share.
40 shares Desert at $18 per share.
10 shares Shelton at $20 per share.
50 shares Tri Union at $9¼ per share.
5 shares Baltimore American at $35½ per share.
10 shares Baltimore American at 36 per share.
10 shares Baltimore American at 35 per share—s 30.
45 shares Burnside at $15 per share.
41 shares Burnside at 15½ per share.
10 shares Melones at $42 per share.
5 shares Melones at 40 per share.
15 shares Melones at 41 per share.
8 shares Chollar at $375 per foot.
4 shares Chollar at 370 per foot.
48 shares Chollar at 360 per foot.
20 shares Chollar at 390 per foot.
8 shares Chollar at 345 per foot.
8 shares Chollar at 340 per foot.
72 shares Ophir at $1570 per foot.

AFTERNOON SESSION.

50 shares Lady Bryan at $56 per share.
300 shares Lady Bryan at 55 per share.
10 shares Lady Bryan at 60 per share—b 30.
115 shares Real del Monte at $162½ per share.

2 shares Real del Monte at 163 per share.
2 shares Real del Monte at 163 per share.
10 shares Real del Monte at 172½ per share—b 30.
50 shares Real del Monte at 165 per share.
20 shares Real del Monte at 164 per share.
10 shares Real del Monte at 172½ per share—b 30.
5 shares Real del Monte at 171 per share—b 30.
20 shares Real del Monte at 165 per share.
27 shares Coso at 85 per share.
10 shares Burnside at $151½ per share.
20 shares Baltic at $160 per share.
20 shares Desert at $22 per share.
5 shares Melones at 40 per share.
4 shares Chollar at $340 per foot.
20 shares Chollar at 369 per foot—b 30.
22 shares Chollar at 351 per foot.
20 shares Chollar at 360 per foot.
20 shares Chollar at 370 per foot.
40 shares Chollar at 400 per foot—b 30.

S. F. B. OF BROKERS.

5 shares Lady Bryan at $56 per share.
5 shares Lady Bryan at 56½ per share.
10 shares Lady Bryan at 57 per share.
10 shares Lady Bryan at 59 per share—b 30.
20 shares Lady Bryan at 59½ per share.
10 shares Davenport at $7 per share.
35 shares Verona, R. R., at $13.
5 shares Harmon, El Dorado county, at $24½ per share.
50 shares Emanuel, E., at $15½ per share.
50 shares Emanuel, E., at 15 per share.
5 shares Wide West at $15 per share.
5 shares Wide West at 46½ per share.
10 shares Wide West at 47½ per share.
25 shares Greenville, E., at $18—s 10.

Sales by the S. F. Stock and Exchange Board,.....$253,616 50
Sales by the S. F. Board of Brokers,..... 6,442 75

Total sales of the day, by both Boards,..... 260,059 25

FRIDAY, JANUARY 22.

S. F. S. AND E. BOARD.

5 shares Burning Moscow, at $112 per share.
10 shares Burning Moscow, at 110 per share.
20 shares Burning Moscow at 110 per share—r w.
10 shares Burning Moscow at 115 per share—b 30.
20 shares Burnside at $47 per share.
30 shares Burnside at 48 per share—b 30.
10 shares Burnside at 16½ per share.
220 shares Real del Monte at $165 per share.
5 shares Real del Monte at 166 per share.
3 shares Real del Monte at 167½ per share.
54 shares Real del Monte at 170 per share.
34 shares Real del Monte at 170 per share—b 5.
5 shares Real del Monte at 175 per share—b 5.
15 shares Melones at $45 per share.
10 shares Melones at 50 per share—b 30.
3 shares Crown Point at $900 per share.
30 shares Baltic at $165 per share.
35 shares Baltic at 170 per share.
10 shares Baltic at 170 per share—b 3.
5 shares Baltic at 165 per share.
3 shares Yellow Jacket at $3000 per share.
170 shares Lady Bryan at $55 per share.
20 shares Lady Bryan at 54 per share—s 30.
30 shares Lady Bryan at 56 per share.
50 shares Lady Bryan at 59½ per share—b 30.
10 shares El Dorado at $50 per share.
30 shares Desert at $21 per share.
35 shares Desert at 22 per share.
20 shares Silver Hill at $16 per share—b 30.
7 shares Silver Hill at 16 per share.
25 shares Silver Hill at 15 per share.
10 shares Standard R. R., $30 per share.
40 shares North American $88 per share.
50 sh Fos Shelton at $10 per share.
3 shares Pride of the West at $46 per share.
20 shares Burnside, $16½ per share.
100 shares Uncle Sam, F. D., at $6 per share—b 30.
6 shares Bullion, G. H., at $71 per share.
80 shares Chollar at $350 per foot.
20 shares Chollar at 395 per foot.
60 shares Ophir at $1575 per foot.
28 shares Sheba $130 per foot.

AFTERNOON SESSION.

5 shares Real del Monte at $175 per share.
40 shares Real del Monte at 181 per share—b 30.
10 shares Real del Monte at 180 per share—b 30.
10 shares Real del Monte at 179 per share.
20 shares Real del Monte at 171 per share.
5 shares Real del Monte at 180 per share—b 30.
5 shares Real del Monte at 177½ per share—b 30.
30 shares Real del Monte at 178 per share—b 30.
35 shares Real del Monte at 171 per share.
10 shares North Potosi at $42½ per share—b 30.
5 shares Burning Moscow at $115 per share—b 30.
5 shares Burning Moscow at 110 per share.
10 shares Baltimore American at $35 per share.
50 shares Baltimore American at 38 per share—b 30.
25 shares Baltimore American at 37 50 per share.
20 shares Baltimore American at 38 per share—b 30.
25 shares Baltimore American at 38 per share.
34 shares El Dorado at $50 per share.
11 shares El Dorado at 51 per share.
6 shares Nevada, Justice Ground, at $90 per share.
35 shares North American at $90 per share.
4 shares Adriatic at $11 per share.
55 shares Adriatic at 12 per share.
10 shares Overtaun at $480 per share—b 30.
25 shares Seneca at $10 per share.
20 shares Utah at $23 per share—r w.
45 shares Lady Bryan at $58 per share.
85 shares Lady Bryan at 55 per share.
35 shares Lady Bryan at 57 50 per share—b 30.
12 shares Ophir at $1575 per foot.
20 shares Chollar at $280 per foot.
8 shares Chollar at 375 per foot.
40 shares Chollar at 380 per foot.

S. F. B. OF BROKERS.

5 shares Harmon at $25.
5 shares North Potosi at $37½.
5 shares North Potosi at 37.
10 shares North Potosi at 36.
10 shares Bullion, G. H., at $72 per share—b 30.
10 shares Bullion, G. H., at 72 per share.
10 shares Bullion, G. H., at 74 per share.
5 shares El Dorado at $15 per share.
10 shares Lady Bryan at 55½ per share.
10 shares Lady Bryan at 56½ per share.
10 shares Baltimore American at $35 per share.
10 shares Spanish No. 2, at $39 per share.
10 shares Spanish No. 2, at 40 per share.
10 shares Spanish No. 2, at 42½ per share.
5 shares Spanish No. 2, at 44 per share.
10 shares Spanish No. 2, at 44½ per share.
5 shares Spanish No. 2, at 45 per share.
100 shares Spanish No. 2, at 47½ per share.
100 shares Spanish No. 2, at 49 per share—s 3.
100 shares Spanish No. 2, at 50 per share.
100 shares Spanish No. 2, at 55 per share.
50 shares Spanish No. 2, at 56 per share.
7 shares Wide West at $46 per share.
5 shares Real del Monte at $175 per share—b 30.
30 shares Silver Hill at $15 per share.
30 shares Cuba, $6 50 per share—b 30.
35 shares Cuba, 5 50 per share.
10 shares Rising Sun, H., at $25 per share.
10 shares Rising Sun, H., at 23 50 per share.
10 shares Rising Sun, H., at 24 per share.
20 shares East Lynne at $5 per share.
10 shares Henrietta, R. R., at $10 per share.
10 shares Broderick, H., $10 50 per share.
10 shares Verona, R. R., at $15 per share.
15 shares Norton, at $11 per share.

Sales by the S. F. Stock and Exchange Board,.....$312,375 50
Sales by the S. F. B. of Brokers,..... 32,581 00

Total sales of the day, by both Boards,..... 344,956 50

Total sales of the week, by both Boards,.....$1,832,290 37

Mr. Jarvis Jewett is our duly authorized advertizing agent and collector in this city.

SILVER BRICKS.—A couple of "specimens" in the shape of silver bars were shown us on Thursday, by Mr. P. H. Cummiog, Secretary of the Troy Co., Reese River. The aggregate weight of the two is $39.11, being the yield from 40 lbs of rock worked at the Pacific Metallurgical Works in this city. This gives us the rate of $1,955.50 per ton, but Mr. Foque, Superintendent of the Works, is confident that by working in large quantities, thereby avoiding the waste necessary in redneing small amounts, the rock will exceed $2,000 per ton. The Troy claims are located about half a milu North of Austin, in Reese River district, and the lode is 2½ feet in thickness of pay rock, 8 inches of which is first class. The company was incorporated last November, and without a single assessment having been made, there is now over $1,000 in the treasury of this company, realized from ore already crushed. Their incline is down 35 feet and the Faris Mill is now working ore from the ledge, returns from which are expected soon. Mr. W. H. Clow, who also visited our office at the same time on Thursday, showed us a small silver brick from the Dacotah ledge, near Austin, takea from only eight pouuds of rock, worked by Varney, uf this city, which weighed five ounces. Numerous other tests have been made from this uine, the most of which came up to the above. Mr. Billet also exhibited fine specimens of ore from the Shakspeare ledge, Reese River district, which had been submitted to a strong fire heat, by which the silver was brought to the surface and in large globules, giving unmistakable evidence of its richness. He also exhibited specimeas from the Gen. Scott ledge, Augusta district.

Such evidenees of the richness of our silver mines are uamistakable in their character, aad may be considered but the preliminary and scattering drops of a perfect deluge of bullion which is soon to pour down upoa us froai the silver mouataius of the Eastera slope. Let it come.

THE VIRGINIA DAILY UNION.—We are pleased to place this excellent daily on our exchange list. The Virgiuia papers are a good illustratiou of the enterprise of that city and Territory, and the *Union* leads the vaa.

Gold in New York.

Saturday, January	16,	158
Monday	" 18,	160
Tuesday	" 19,	161
Wednesday	" 20,	158½@161
Thursday,	" 21,	157

Legal Tender Notes.

San Francisco, Friday January 22, ...65½ per cent.

Gold Bars.

San Francisco, Friday January 22,.....840@850

San Francisco Stock and Exchange Board, Jan. 22.

MISCELLANEOUS.	Bid.	Asked
Legal Tenders.....	65½	—
State Bond3. 7 ₱ ct....	87¾	—
S. F. Bonds, 10 ₱ ct....	99	—
S. F. Bonds, '55, 6 ₱ ct..	—	68
S. F. Bonds, '58, 6 ₱ ct..	—	68
S. F. Bonds, 7 ₱ ct.....	—	81
Sac City Bonds, 6's.....	—	28
San Co Bonds, 5's.....	—	50
Marysville Bonds, 10's..	75	—
Stockton Bonds, 10's....	75	80
Yuba Co Bonds, 10's....	50	—
Santa Clara do, 12's....par		&int.
S Clara Co do, 7's.....	75	78
Butte Co Bonds, 10'.....	—	80
San Mateo Co. do, 7's...	74	78
Cal. Navigation Co	—	50
State Telegraph.....	243¾	—
S. F. Gas Company....	86	—
Sacramento Gas Co.....	—	62
S. F. City Water Wks...	—	50
Spring Valley W Co....	48	50
Vlr. & G'd Hill W. Co..	—	90
RAILROADS.		
Sacramento Valley....	22¼	—
Omnibus.....	—	109
ESMERALDA STOCKS.		
Wide West, ₱ foot....	$40	$50
Esmeralda.....	7	10
Real Del Monte.....	170	172½
Utah.....	20	25
Silver Hill.....	16	18
Nevada.....	2	—
Fulls of Clyde.....	—	3
Bamboo.....	40	100
Crockett.....	8	20

WASHOE.	Bid.	Asked
Ophir, ₱ foot.....$1570		$1575
Gould & Curry.....	3800	4975
Chollar.....	395	400
Potosi.....	1075	1125
Hale & Norcross.....	—	835
Sierra Nevada.....	75	80
Raney.....	60	75
Burning Moscow.....	100	110
North Potosi.....	33	39
Charles Cany.....	10	11
Iowa.....	—	50½
El Dorado.....	45	52
Norton.....	8½	15
Burnside.....	16½	20
Adriatic.....	11	12
Pride of the West....	85	100
Imperial.....	100	—
Mt Davidson ₱ sh...	2¾	2¾
Crown Point.....	900	900
Seneca.....	10	15
Bajazet & G'n Era.... coso.	22½	—
Josephine, ₱ sh.....	1	—
Willow Springs.....	1¼	—
COPPER.		
Napoleon, ₱ Sh.....	47½	75
CALIFORNIA.		
Eureka.....	30	—
Fellowes.....	—	60
Rock River.....	—	60
HUMBOLDT.		
Do Soto.....	—	25

The Publication of Mining Notices in the MINING & SCIENTIFIC PRESS obtains for them a more general circulation, among parties directly interested, (in this city and throughout the mining districts of the coast, than can be secured through any other medium. State laws require their publication but once a week, and Secretaries and Trustees can make a material saving of costs to stockholders by ordering their advertisements inserted in the journal most properly entitled to receive their patronage—the weekly MINING AND SCIENTIFIC PRESS.

MINING ILLUSTRATIONS.—We give upon the first page of the present issue a diagram of the Washington copper mine, located at Indian Bar, Tuolumne county. We shall continue such illustrations from time to time as they may present themselves. We hope soon to be able to lay before our readers underground diagrams of most of our leading mines. Such illustrations will be found not only interesting to our readers, but useful to the companies, conveying to stockholders and the public important information which can be communicated in no other way. Mining companies who may desire to have a correct illustration of their mines presented to the public and their stockholders, are requested to communicate with this office.

OUR TRAVELING AGENT, J. M. Wolf, contemplates an early visit to Nevada, Placer and El Dorado counties, and Nevada Territory. Mr W. is an observing and reliable gentleman, and our friends in sections visited by him, will confer mutual favors upon themselves and us, by giving him a cordial reception.

Bankers Gold and Silver Mining Company, Gold Hill District, Storey county, N. T.—Notice is hereby given that the Trustees of the Bankers Gold and Silver Mining Company have this day levied an assessment of fifty cent per shares on each and every share of the capital stock of said Company, said assessment payable immediately, in gold coin, to the Secretary, at the office of the Company, No. 602 Washington street, or to R. C. O'NEILL, Superintendent, at Gold Hill, N. T. W. AUGUSTUS KNAPP, Sec'y.
January 18th, 1864. 4v8-1m

Prima Donna Gold and Silver Mining Company, Devil's Gate District, N. T.—Notice is hereby given, that the Board of Trustees of the Prima Donna Gold and Silver Mining Company, at a meeting of said Board, held January 18th, 1864, levied an assessment (No. 5) of fifty cents on each and every share of the capital stock of said Company; said assessment payable immediately, in gold coin, to the Secretary, at the office of the Company, No. 620 Washington street, Room No. 3.
4v8-1m H. B. CONCDON, Secretary.

Table Mountain Copper Mining Company, Office 528 Montgomery street, San Francisco, January 16, 1864.—Notice is hereby given to the stockholders of the Table Mountain Copper Mining Company, that an assessment (No. -) of one dollar ($1) per share was this day levied on each and every share of the capital stock of said Company, payable immediately, in U. S. gold coin, to the Secretary, or to J. M. PIKE, Superintendent, at Copperopolis. By order of the Board of Trustees.
4v8-1m M. C. ELMORE, Secretary.

San Francisco Board of Brokers.

☞ There will be an OPEN BOARD at their rooms, No. 430 Montgomery street, at 10½ o'clock A. M. DAILY, Sundays excepted.

Parties interested in buying and selling Stocks are invited to be present. By order.

4v8-tf M. G. ELMORE, Secretary.

BUSWELL & CO.,

Book-Binders, Paper-Rulers,

And Blank-Book Manufacturers.

No. 509 Clay street and 508 Commercial street, between Montgomery and Sansome, San Francisco.
4v8-tf

C. BEACH,

IMPORTER AND DEALER IN

Juvenile and School Books, Stationery,

Kustel's California Gold and Silver Processes of Extraction, Etc., Etc.

No. 34 Montgomery street (opposite the Lick House),
4v8-3m SAN FRANCISCO.

J. P. LeCount & Co.,

PUBLISH

CERTIFICATES OF STOCK,

Equal to Lithograph, for $25.

Stock Ledgers, Transfer Books,

And all Stationery Required by Mining Companies.

AT LOW PRICES.

4v8-tf No. 433 Sansome street, San Francisco.

N. LOMBARD INGOLS,

Accountant and Mining Secretary.

NO. 10 GOVERNMENT HOUSE, CORNER OF WASHINGTON AND SANSOME STREETS, SAN FRANCISCO.

OFFICE OF THE
SANTA CRUZ PETROLEUM OIL WORKS,
GEM SILVER MINING CO., (REESE RIVER, N. T.,)
LAUREL G. & S. MINING CO., COPALA, SINALOA, MEX.

N. B. Mr. Ingols will pay particular attention to the adjustment of complicated accounts, Commercial and Incorporated Companies' Books, to drawing up Commercial writings and to Engrossing legal or other documents with neatness and dispatch. An experience of more than twenty-five years in every branch of his profession is a guaranty of his practical and thorough acquaintance with its duties. He has the privilege of referring to some of the leading mercantile houses and legal practitioners on the Atlantic and Pacific sides, for testimony of his business and clerkly abilities. jlu.

VARIOUS CHIPPINGS.

—Philadelphia is talking of a mammoth heating apparatus, the heat to be distribnted after the manner of gas.

—A newspaper is about to be establisihed at Como, Palmyra district, Nevada Territory. Como is a town rapidly growing into importauce.

—Admitting that horse-races improve the hreed of horses, it may be a fair question whether they impove the breed of men.

—Oue county in Indiana has given four hundred wagon loads of provisions to the Sanitary Commission.

—Fire-wood is selling at $18 per cord, delivered from wagons, in Virginia City.

—The new quartz mill at Como, Palmyra, is now regularly at work.

—Riches are no evidence of personal worth. The Colchian ram had a fleece of gold, hut he was probahly very poor mutton.

—A direct mail communication through Southern California to Arizona and New Mexico, is urged, instead of the round about one via Salt Lake City.

—Ex Controller Warren's bondsmen, at Stockton, are throwu iuto great consternation by his exit. Suit has heen commenced against them. They arc all wealthy men.

—Many persons write articles and send them to an editor to he corrected—as if an editor's office was a house of correction.

—There were in Great Britain, in 1862, 738 fatal colliery nccidents, involviug the loss of 1,133 lives.

—Air, food, sleep, and the cheerful emotions, are the best restoratives to exhausted nerves.

—In 1816 the hest printiug press would only throw off three hundred impressions an hour; at the present day twenty-five thousand is attainable in the same space of time.

—The Florence sewing-machine Co. at Northampton, are to erect a uew factory 35 hy 150 feet, and 3 stories high.

—The coal fields of the U. S. cover an area of more than 200,000 square miles.

—Of all the dust thrown in a man's eyes gold dust is the most hliuding.

—The right of way for a macadamized road through the Presidio reserve, has been granted by the War Department.

We have now in the United States at least 235 general hospitals for the use of the soldiers, containing ahout 80,000 patients.

Spare minutes are mighty laborers if kept to their work. They overthrow or build np, enrich or impoverish a man.

A man of philosophical temperament resemhles a cucumber—for although he may be completely cut up, he still remains cool.

A journalist has discovered that, all things considered, railways are very slow, and behind the age. He says that wheu traveling, he blushes to think that the Message over the telegraph flies like lightening, while he is lazily creepiug along at only thirty or forty miles an hour.

Music is the only earthly bliss that the imaginations of men have transferred to Heaven.

The total number of saw-mills in the State is 218, which turn out per annum 111,735,500 feet of lumher, and 22,967,000 shingles.

At thirty we are trying to cut our names in hig letters upon the walls of this tenement of life; twenty years later we have carved it or shut up our jack-knife.

Artemus Ward cleared $10,000 by speakiug "pieces," in California.

The above fact, if it is a fact, can scarcely be accounted as complimentary to the good sense and taste of Californians.

A factory is heing fitted up on Napa creek for the manufacture of smoking and chewing tohacco.

The Brooklyn Common Council has passed a law that no person shall be required to pay fare on any horse car unless furnished with a seat. Let us have the same regulation in San Francisco.

Drop by drop falls into the clear well spring of youth the bitter water of experience, and there is no filter this side of the grave that can restore the old purity.

Miscellaneous Advertisements.

MINERS' FOUNDRY
—AND—
MACHINE WORKS,
First street, between Howard and Folsom streets,
SAN FRANCISCO.

Every description of iron and brass machinery, the **Best** and **Most Economical**, manufactured in the State of California, will be furnished with dispatch at the Miners' Foundry and Machine Works, as:

Steam Engines and Boilers, Flour, Saw and Quartz mill machinery, Mining Pumps, Amalgamators, Retorts, Etc., Etc., Etc.

Particular attention will he given to the manufacture of Machinery in Sections, designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities will be afforded ample facilities, free of cost.

All parties desiring accurate and highly finished drawings and Superior Machinery, at most reasonable rates are cordially invited to call before contracting elsewhere.

HOWLAND, ANGEL & KING.
San Francisco, February 23, 1863. tf.

PALMER, HANSCOM & CO.,
GOLDEN STATE IRON WORKS,
No. 19, First Street, San Francisco,
Furnish Castings and Machinery of all kinds,
Also Genuine White Iron Shoes and Dies.
PALMER, HANSCOM & CO.

To Quartz Miners.

KNOX'S IMPROVED AMALGAMATING PAN
WITH PALMER'S PATENT STEAM CHEST.

The above combination secures the most complete amalgamation of the precious metals of any process now known. By it steam is introduced in the most effective and economical manner, while it is peculiarly adapted to the catching of floating gold and silver, known to be otherwise lost. Made exclusively by
PALMER, HANSCOM & CO.,
Golden State Iron Works,
Nos. 19 and 21 First Street, San Francisco.

The public are informed that Letters Patent have been granted the undersigned upon Steam Chest False Buttoms for the inside of Amalgamating Pans or Tubs, and are cautioned against making, buying, using or selling the same without his consent.
tf W. A. PALMER.

Sacramento Iron Works.
I STREET, BETWEEN FIRST AND SECOND STREETS,
SACRAMENTO.
GOSS & LOMBARD.....Proprietors.

Manufacturers of steam engines, machinery for Saw, Flour and Quartz Mills, Horse Powers, Windmills, Car Wheels, Suction and Force Pumps, Cast Iron Rifles and all kinds of House Castings, at reduced prices. Gas pipe of all sizes, and all kinds of Brass and Iron Steam Fittings, with Hemp and Rubber Packing, constantly on hand. Wrought Iron Work and all kinds of Brass Castings done to order.

We are the Sole Agents in this State for the celebrated Worthington Pump, an assortment of which we keep constantly on hand. We have just received from the East a fine assortment of Cast Iron Fence Patterns, suitable for yards, balconies, cemetery lots or graves. We shall continue to do our work in the best manner and at the LOWEST CASH PRICES, hoping thereby to receive a just share of public patronage. 1-3m

JOHN P. GALLAGHER..... .....JOSEPH H. WEED.
GALLAGHER & WEED,
BRASS AND BELL FOUNDRY
And Lock Factory.
ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING, DONE WITH NEATNESS AND DISPATCH.

Church and steamboat bells, of all sizes, made to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks, also brass Padlocks and Shop Locks of various patterns, on hand and made to order.
☞ Particular attention given to casting Rudder Braces and Ship Work in general.
☞ All Jobs promptly attended to.—Prices moderate. ☜
No. 125 First Street, opposite Mint, nextdoor to Pacific Foundry.
[Removed from Oregon street, between Front and Davis.]
j2tf

LEWIS COFFEY. J. S. RISDON.
LEWIS COFFEY & RISDON,
Steam Boiler & Sheet Iron Works.
The only exclusively boiler making establishment on the Pacific Coast, owned and conducted by Practical Boiler Makers. All orders for New Work, the repairing of Old Work, executed as ordered, and warranted as to quality.
Old Stand, corner Bush and Market Streets. Opposite Oriental Hotel, San Francisco, Cal.

Vulcan Iron Works Company.
P. Torquet,.....Manager.
Steam Engine Builders and Boiler Makers,
Iron Founders and General Engineers,
Pumping, hoisting, mining and quartz-crushing machinery. Shoes and Dies of the hardest iron. Russia Iron Punched Screens, Steamboat Machinery, Saw, Flour and Sugar Mills. High and Low Pressure Boilers of all styles. Jonval and other Turbine Water Wheels with latest improvements.
tf No. 187 & 139 First Street San Francisco.

PORTLAND BOILER WORKS.
MOYNIHAN & AITKEN,
BOILER MAKERS AND SHEET IRON WORKERS,
N. B. All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.
Mission, between Beal and Fremont Sts., San Francisco.
1y29-tf

WANTED,
Gold Quartz suitable for Cutting Jewelry.
By **FRONTIER & DEVIERCY.**
437 Pine Street, San Francisco.
au31tf.

A. S. HALLIDIE & CO.,
WIRE ROPE MANUFACTURERS.
Established 1857.
Office, No. 412 Clay street—Works, North Beach,
SAN FRANCISCO.

After seven years' use throughout the State of California and the Pacific Coast generally, we can confidently recommend Wire Rope for
HOISTING FROM DEEP MINES,
GUY ROPES FOR DERRICKS, &c.,
STANDING RIGGING FOR SHIPS,
FERRY ROPES FOR FERRIES,
SASH CORD FOR WINDOW SASHES,
ETC., ETC., ETC., ETC., ETC., ETC.
It being Cheaper, Stronger, Lighter and More Durable than any other kind of Rope, and not stretching or shrinking by atmospheric changes.

MINING COMPANIES, by using it for Hoisting Purposes, save 66 per cent. on their outlay for other ropes.

Wire Fencing Strand,
For fencing large parcels of land—permanently, economically and expeditiously. Manufactured in any length desired. Pamphlets, containing weight, strength and price, forwarded free on application to the Manufacturers.

WIRE SUSPENSION BRIDGES AND AQUEDUCTS
We are prepared to erect, of any span and capacity, and take pleasure in referring those interested to the many structures of this kind built by us in California, Oregon and British Columbia, of span from 200 to 400 feet. 3-3m

CROCKER'S
STOCK AND ASSESSMENT LEDGER.
Copyright secured—Price $10.
The necessity of a proper book for keeping the Stock and Assessment accounts of Corporations has long been very much needed. One that would combine economy and simplicity, and would not require the services of an experienced book-keeper to keep the accounts correctly. CROCKER'S STOCK AND ASSESSMENT LEDGER has met this requirement; we have submitted it to several Secretaries of corporations, and they acknowledge that the plan is admirable, and just what has long been wanted. The printed headings are a perfect explanation of the manner of keeping it; and any person, whether they understand book-keeping or not, cannot make an error in the accounts. The Stock and Assessment accounts are so arranged that the Secretary can in a moment tell how any Stockholder's account stands, both in regard to Stock and Assessments. He can also, with the greatest ease, trace any certificate, through any number of transfers, to the original one issued. It saves a great amount of labor, as it does not require one-fourth the writing of the ordinary method. It dispenses entirely with the old style of Stock Ledger, Stock Journal and Assessment Book, all three of which Secretaries have heretofore been obliged to keep, condensing the whole in one book. To a person who is Secretary of several companies, this book will prove invaluable, and we feel no hesitation in guaranteeing satisfaction to those who may order them. Specimen sheets sent to those who desire to examine it. The books are ruled with one or two accounts to the page. State which is preferred.
Published and for sale, wholesale and retail, by
H. S. CROCKER, & CO.,
Book and Job Printers, Sacramento.

Certificates and complete sets of books for Corporations, in the finest style, at short notice, and low rates. 7-1m

Pacific Mail Steamship Company.
THE FOLLOWING STEAMSHIPS WILL BE DISPATCHED FROM SAN FRANCISCO IN THE MONTH OF JANUARY, 1864.
Jan. 4—GOLDEN AGE,.....Wm. F. Lapidge, Commander.
Jan. 13—ORIZABA,.....E. T. Farnsworth, Commander.
Jan. 23—CONSTITUTION,.....J. T. Watkins, Commander.
From Folsom street Wharf, at nine o'clock A. M., punctually.
FOR PANAMA.
Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company.
A. B. FORBES, Agent P. M. S. Co.,
jl Cor. Sacramento and Leidesdorff Sts., San Francisco.

People's Opposition Steamship Line.
— FOR —
NEW YORK, VIA PANAMA.
Great Reduction in Rates!
The new, fast and Splendid Steamship
AMERICA,
THOMAS H. MORTON.....Commander,
Will be despatched for Panama on WEDNESDAY, February 3d, 1864, from Mission street Wharf, San Francisco, at 9 o'clock A. M., connecting, via Panama Railroad at Aspinwall, with the steamship
Illinois (2,500 Tons) for New York.
Passengers are landed immediately on arrival at Panama, by the Railroad Company's Steamboat. The Company have also wharf facilities at Aspinwall. A Baggage Master will be sent on each steamer. For further information or passage, apply to
I. K. ROBERTS, Agent,
3. 407 Washington street, opposite Postoffice, S. F.

WHEELER'S
Amalgamating and Separating Pans.
It is acknowledged by all who have examined the principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.
The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metal arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the triturating, this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.
Where these Pans have been introduced and operated by the side of others on sands from the same vat, the Wheeler Pans have uniformly gained a large percentage of metals, over its competitors, as well as a still larger percentage in the amount of work performed.
*** These Pans may be seen in daily operation at the Miners' Foundry, on First street, San Francisco, where all interested are invited to call and examine for themselves.
no16-tf ZENAS WHEELER.

W. W. HANSCOM,

Steam and Mechanical Engineer. Designs furnished, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc., etc. Agent for McKenzie's Patent Cupola and Blower.

At the Golden State Iron Works,

First Street, San Francisco.

1f.

THEODORE KALLENBERG,

Maker of Models for Inventors.

MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.

No. 418 Market street, San Francisco. n7-tf

FREDERICK MANSELL.

Mechanical & Architectural Draughtsman,

No. 422 California street, corner of Leidsdorff.

Drawings of Models made for parties applying for patents at Washington or London. mar23-tf.

PUMPS! PUMPS!

HARRISON'S

California Lift and Force Pump,

WITHOUT VALVES OR PACKING,

Suitable for Mines, Fire Engines, Wrecking or Irrigating. This is the Cheapest, Lightest and most Durable, and least liable to get out of order of any Pump yet invented.

ALL SIZES.

Capable of throwing from ONE HUNDRED to FIVE THOUSAND Gallons per minute. For sale by

C. H. HARRISON, Phœnix Oil Works,
517 Front Street, San Francisco.

je15-tf

A New and Valuable Book.

PROCESS OF SILVER AND GOLD EXTRACTION, BY OUIDO Kustel, Mining Engineer and Metallurgist, former manager of the Ophir Works, &c.; 350 pages octavo Illustrated.

This admirable work has met with the highest commendations from the Press and Scientific men, as a clear and able exposition of the science as practised in California and Nevada Territory. It is written for the people in good plain English and finely Illustrated.

Price—post paid—Cloth $6; Sheep $7.

A. ROMAN & CO.,
Booksellers, Importers and Publishers,
417 and 419 Montgomery street,
San Francisco.

no30-tf

Mining Laws and Forms

JUST PUBLISHED, BY H. H. BANCROFT & CO., BEING A compilation of the Statutes of this State relating to Mining Corporations, Assessments, etc., with a digest of decisions of the Supreme Court and Forms of the Incorporation of Companies. Compiled by H. B. Congdon. 12mo., flexible cloth. $1,50. For sale at all the Bookstores. sep14-tf

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Giffard's Injectors.

FOR SUPPLYING OILERS WITH FEED WATER WITHOUT Pumps. No Mill or Mining Company should be without one of these valuable Instruments. Send for a Circular.

Corner of Pine and Front Streets, San Francisco.

je22-tf DAVID STODDART, Agent.

Patronize Home Manufacturers!!!

JAMES LONGSHORE,

TRUNK AND VALISE MANUFACTURER, 397 SANSOME ST., under Tehama House. Trunks and Valises, Wholesale and Retail. Fine Sole Leather Trunks, Valises, and a fine assortment of LADIES' TRUNKS constantly on hand. Trunks covered and repaired.

au10

WM. H. MEAD, THEODORE VAN TASSEL

MEAD & VAN TASSEL,

HATTERS,

Montgomery St., corner of Commercial,

SAN FRANCISCO.

TO OUR FRIENDS AND THE PUBLIC GENERALLY:—HAVING purchased the entire interest of Messrs. Fishers & Co., in this city, we shall, on the 1st. day of May assume the management of the

HAT EMPORIUM

so long conducted by that firm.

MR. WILLIAM H. MEAD, for the last seven years salesman with Messrs Fisher & Co., respectfully solicits a continuance of the patronage so long and liberally bestowed upon the old House, feeling entire confidence in our ability to suit in every particular.

MR. THEODORE VAN TASSELL, for eight years with Messrs Le Gay & Co., would be pleased to see his friends at his new place of business.

The long practical experience of Messrs. Mead & Van Tassel in the Trade justifies them in saying that their work cannot be excelled either in finish or durability. Having perfected arrangements, we shall be in constant receipt, by every steamer, of soft goods of the very finest of FRENCH AND AMERICAN MANUFACTURE. Our Stock on hand is superb.

Call and examine, and judge of the merits of our claim to the title of "LEADERS OF FASHION."

Respectfully, MEAD & VAN TASSELL.
no2-tf. Montgomery street, cor. Commercial.

GEO. A. METCALF. D. S. HUTCHINSON.

METCALF & HUTCHINSON'S

PHOTOGRAPHIC GALLERY,

650 Washington St. Three doors below Kearney, San Francisco.

HAVING REFITTED THE ABOVE ROOMS THE FIRM ARE now prepared to furnish the public with a superior style of Picture, at a lower price than ever before offered in the city.

CARD PICTURES.

As we have every facility for producing these beautiful pictures, in all their different varieties, we have reduced the price to

THREE DOLLARS PER DOZEN!

Large sized Photographs $3—Extra copies $1 each.

AMBROTYPES in all Styles and Prices.

OLD PICTURES copied with care and accuracy, in any style desired. Particular attention paid to pictures of children.

Pictures painted in Oil or Water Colors, and retouched in India Ink by a competent artist. aug.

CHARTER PERPETUAL.

PHŒNIX

INSURANCE COMPANY,

Of Hartford, Conn.,

DEVOTED TO FIRE INSURANCE EXCLUSIVELY.

Cash Capital,.....$100,000 00
Cash Assets,.....$611,253 52
Invested in California,.....$50,000 00

W. B. CLARK, Secretary. H. KELLOGG, President.

Pacific Branch Office:

S. W. corner Montgomery and Commercial Streets,

Over Banks & Co.'s Bank, Entrance 603 Commercial St.,

SAN FRANCISCO.

Premiums received by the "PHŒNIX" for insurance in this State are retained for investment in California Securities, and together with $50,000 already invested in Bonds, are held subject to claims for loss under California Policies, making

The Phœnix of Hartford

A HOME INSTITUTION.

Backed by a sound *paid up capital*, the prestige of years, and an extended and valuable experience in the business.

Losses honorably adjusted and promptly paid in United States Gold at points where they occur.

R. H. MAGILL,.....General Agent.

☞ Policies issued and renewed in this sterling and popular Company, on all classes of desirable property, at rates as low as solvency and fair profit will admit of.

J. FRANK, City Solicitor. L. B. DELL, Resident Agent
1-3m

Fire Hose! Fire Hose!!

J. P. D. WILKINS,

THE CELEBRATED HARNESS MAKER OF STOCKTON, MAKES Fire Hose, from the best material, and WARRANTED at a trial of the Weber Steam Engine Co., No. 3, of the City of Stockton. This Hose is manufactured at his establishment, and known to stand a pressure of 125 pounds to the square inch; as certified by the Chief Engineer.

ALSO FOR SALE,

All kinds of HARNESS and SADDLERY, at the lowest cash prices. Repairing done promptly, one door west of the Main Street Stable. Stockton, Cal. oct12 1f.

HEYER BROS., 76 and 78 Federal Street, BOSTON.

HEYER BROS., 406 Battery Street, SAN FRANCISCO.

HEYER & CO.,

IMPORTERS OF

AMERICAN AND EUROPEAN FANCY GOODS, TOYS AND MUSICAL INSTRUMENTS;

ALSO, SOAP'S, PERFUMERY, HAIR AND TOOTH BRUSHES, Port Folios, Portmonnaies, Ladies' Bags, Photograph Albums, Cutlery, Willow and Parian Ware, Children's Carriages, etc. Our Stock of Violin, Guitar and other Strings is very large. Our foreign Goods are selected by one of the firm, and the American by the Boston House (established in 1824.) We have the sole Agency for

HALLET & DAVIS' BOSTON PIANOS,
SMITH & BROS' HARMONIUMS, AND
TREAT & LINSLEY'S MELODEONS.

The Hallet & Davis Pianos are each supplied with their Patent Suspension Bridge, which is a decided improvement. It gives a full and clear vibration in the upper octaves, producing a quality of tone unequalled in firmness and purity. Our Melodeons and Harmoniums are of the best quality, and warranted to give satisfaction.

3m.

THE RAILROAD HOUSE.

Nos. 318 & 320 Commercial and 319 & 321 Clay St.,

SAN FRANCISCO.

C. A. JAMES,.....Proprietor.

THE ABOVE HOUSE IS A FIRE-PROOF BUILDING, WITH Granite Front, and kept on the European Plan, with board and lodging by Day or Week to suit the convenience of our Patrons.

The rooms are handsomely Furnished, supplied with Patent Spring Beds, and Hair Mattrasses, affording very superior accommodations for families or single persons.

The Table is supplied with the best the market affords at prices to suit the times.

The Rail Road House Coach is always in attendance at the Steamers to convey passengers and their baggage to the House **Free of Charge.** ☞ **The House is open all Night.**

j2-tf

INTERNATIONAL HOTEL.

Jackson Street.....San Francisco.

[A FEW DOORS ABOVE MONTGOMERY.]

Fire-proof Brick building. Most convenient to the Steamer's Landing, Business Hs., and places of Amusement. Open all night. City Railroad Cars Pass the Door.

Reduction in Prices.

FINE BATHING ROOMS ATTACHED TO THE BARBER SHOP. Warm and Cold Shower Baths Free to Guests. Thoroughly renovated and newly furnished this Spring. Every room opens to the Light and Air. Each room is furnished with a first quality Patent spring Bed and Hair mattrasses. The International offers to guests the greatest number

AND BEST FURNISHED FAMILY ROOMS;

AND SETS AS GOOD A TABLE AS any House in the City.

I am determined that the INTERNATIONAL shall be the most comfortable, best regulated, and in all respects superior to any like establishment in the State, and shall aim to merit a continuance of the popular favor it has enjoyed heretofore. It will be conducted on Temperance Principles.

1-tf F. E. WEYGANT, PROPRIETOR.

Agency for the Purchase and Sale

— OF —

MEXICAN MINING STOCKS,

At No. 411 Clay Street, San Francisco.

OFFICE OF THE PENA AND LA MARRONENA SILVER MINing Companies, San Antonio District, Lower California.

All persons are invited to call and examine Ores from the above mines.

j1tf WM. FAULKNER.

REYNOLD'S

Patent Cut-Off and Governor,

For Steam Engines.

127 of these Invaluable Machines

ARE NOW IN USE

In California and Nevada Territory, giving a perfectly regular motion and

Saving 20 to 75 per cent of the Fuel.

Steen's Improved Governor

IS THE CHEAPEST, SIMPLEST AND QUICKEST TO ACT AND least liable to get out of order of any Governor in use. It can be seen in operation at the Golden State Iron Works, at the Stone Breaker, foot of Montgomery Street and at the Sugar Refinery, 8th Street, San Francisco.

Steam Engines, Boilers, Pipes,

Hydraulic Presses, Shafting, Pulleys, Etc., Etc., bought and sold the best market rates.

Anti-Incrustation Powder,

A sure remedy for Scale in Steam Boilers, without injury to the Iron. In use for the past EIGHT years.

☞ MACHINERY MADE AND REPAIRED. ☜

—REFER TO—

Sugar Refinery, San Francisco,
Cottell & Co., San Jose,
L. A. Boddi, Esq., Virginia City,
And 2,000 others in the United States.

E. T. STEEN.

1-tf Nos. 37 & 39 Fremont Street and 42 & 44 Beal Street.

Owen's River Canal Company.

CAPITAL STOCK.....$1,000,000.

10,000 Shares.....$100 per Share.

A PORTION OF THIS STOCK IS NOW OFFERED TO THE PUBlic, and recommended as an investment.

Full Paid and Unassessable Stock,

Also Assessable Stock, can be obtained of A. J. DOWNER & CO., the authorized Agents of the Company,

406 Montgomery Street.

President.....R. S. WHIGHAM.
Secretary.....W. FISK HITCHCOCK.
Treasurer.....MONTGOMERY GODLEY.
Superintendent.....WILLIAM FLEMING.
Engineer.....J. E. CLAYTON.

TRUSTEES:

R. S. WHIGHAM, formerly of Whigham's Mill,.....Nevada City.
WILLIAM FLEMING.....of San Francisco.
SPIER RIDDEL.....Paying Teller of Parrott & Co's.
ISAAC SWAIN.....of A. J. Downer & Co.
WILLIAM P. PRATT.....of Nash & Fogg.

Office of the Company 328 Montgomery Street. j1tf

T. C. SANBORN & CO.

Stock Brokers,

No. 630, Montgomery Street,.....San Francisco.

OPHIR SILVER MINING STOCK,
GOULD & CURRY MINING STOCK,
CHOLLAR MINING STOCK,
CALIFORNIA STEAM NAVIGATION COMPANY'S STOCK,

☞ **BOUGHT AND SOLD.** ☜

j1tf.

Owen's River Canal Company.

FOR SALE, FOR ACCOUNT OF THE COMPANY, 7,000 SHARES of the above stock, at $1 per share. It is confidently presented to the publicas the best investment, for the price, now offered in this market.

Office of the Company No. 328 Montgomery street. 1tf

Removal.

OFFICE OF THE PACIFIC METALLURGICAL OFFICE IS REmoved to 509 Sacramento street. Having enlarged our works at North Beach, we are now enabled to reduce from 10 to 15 tons of Silver or Gold rock per day.

Gold and Silver ore, and Sulphuret Assayers', or Silversmiths' sweepings reduced or purchased.

COPPER ORES—Highest market rates advanced in cash, for Shipments. S. C. BRADSHAW, Agent,

509 Sacramento street, near Sansome.

HEPBURN & PETERSON'S.

AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION OF THE Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos. 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machines now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

nov8 3m* HEPBURN & PETERSON.

TREMONT HOUSE.

418 and 420 Jackson Street [a few doors below Montgomery,]
SAN FRANCISCO, CALIFORNIA.

THIS FINE, FIRE-PROOF BUILDING OFFERS MANY ADVANtages to the traveler for convenience. It is only half a block from the Post Office and Custom House, and about the same distance from the principal places of Amusement.

The City Railroad Cars pass the Door. The House is conducted on Temperance Principles, which secures to our guests QUIET.

The prices for board and Rooms are very moderate—by the day, meal or week. WE SOLICIT A CALL FROM ALL.

F. E. WEGANT, Proprietor.

For the accommodation of my many guests I have taken and refurnished the INTERNATIONAL HOTEL, and will carry on the two houses in connection, so that travelers wishing to put up at either house, may take the Tremont or International Hotel Coach and be taken to either House with their baggage, FREE.

tf. F. E. WEGANT.

Mining Notices.

Zenith Gold and Silver Mining Company.—Office, 528 Montgomery street, San Francisco, January 8th, 1864.—At a meeting of the Board of Trustees of the Zenith Gold and Silver Mining Company, held this day, January 8th, 1864, an assessment of $1 per share was levied upon each and every share of the assessable stock of said Company, now due and payable immediately, in United States gold coin, to the Secretary, at the office of the Company. By order of the Board of Trustees.

3 M. G. ELMORE, Secretary.

Verona Gold and Silver Mining Company.—San Francisco, January 12th, 1864.—Notice is hereby given, that at a meeting of the Board of Trustees of the Verona Gold and Silver Mining Company, held this 12th day of January, 1864, an Assessment of Fifty (50) cents per share was duly levied on each and every share of the Capital Stock of said Company, due and payable immediately, in United States gold coin, to the Secretary, at his office, No. 57 Government House, or to O. L. Church, Superintendent, at Austin, Reese River. (3-3t) WM. POOLER, Sec'y.

Carrie Copper, Gold and Silver Mining Company.—The First Annual Meeting of the Stockholders of the Carrie Copper Gold and Silver Mining Company, will be held at the Company's office, No. 628 Clay street, on MONDAY, February 1st, 1864, at 3 o'clock P. M., for the election of officers and the transaction of such other business as may come before it. (1-1m) B. W. MUDGE, Sec'y.

Puritan Gold and Silver Mining Company, (Devil's Gate District, N. T.)—Notice is hereby given that the Trustees of the Puritan Gold and Silver Mining Company have this day levied an assessment of one dollar on each and every share of the capital stock of said company; said assessment payable immediately in gold coin to the Secretary, at the office of the company, No. 623 Washington street. H. B. CONGDON, Secretary.

December 26, 1863. 1-m

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. THE MINING AND SCIENTIFIC PRESS PATENT AGENCY has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

Conqueror Gold and Silver Mining Company.—Office southeast corner of Front and Sacramento streets, San Francisco December 29th 1863—At a meeting of the Trustees of the Conqueror Gold and Silver Mining Company held this day, an assessment of Twenty-five (25c.) Cents per share on each and every share of the capital stock of the said Company was levied, now due and payable immediately in U. S. gold coin, to the Secretary, at the above named office. By order of the Board of Trustees.

j2-1m WM. W. KNIGHT, Sec'y.

Enterprise Copper Mining Company.—Office . 528 Montgomery street, San Francisco. At a meeting of the Board of Trustees of this company, held December 12th, an assesment of ten cents per share was levied, payable immediately, and another assessment of eight cents per share, payable January 1st, 1864, and another assessment of eight cents per share payable February 1st, 1864, all payable in U. S. gold coin, to Thomas S. Levy, the Treasurer, at Lincoln, Placer county, or to the Secretary, at the office of the Company. By order of the Board of Trustees.

M. G. ELMORE, Secretary.

Occidental Copper Mining Company, Office northeast corner Pine and Montgomery streets, San Francisco, December, 29th, 1863.—An assessment of Thirty Cents per share was this day levied on each and every assessable share of the capital stock of the Occidental Copper Mining Company, payable immediately to the Secretary, in U. S. gold coin. By order of the Board of Trustees

EDW. BARRY, Sec'y.

Fair Haven Gold and Silver Mining Company, Cortes District, Reese River.—At a meeting of the Trustees of the above Company, held Dec. 29th, 1863, an assessment of Seven Cents per share was duly levied and made payable immediately at the Office of the Secretary, 400 Front Street.

W. H. DANIELS, Secretary.

Hudson Gold and Silver Mining Company, (Devil's Gate District,) office No. 804 Montgomery street, San Francisco, December 19th, 1863.—At a meeting of the Board of Trustees of this Hudson Gold and Silver Mining Company, held this day, December 19th, 1863, an assessment of One Dollar per share was duly levied on each and every share of the Capital Stock in said Company, due and payable immediately, in United States gold coin to the Secretary, at the office of the Company, in this City, or to A. W. Hale, Esq., Superintendent, at Virginia City.

j2-1m I. LAWRENCE POOL, Sec'y.

Sarah Frances Gold and Silver Mining Company, Markleville.—Assessment No. 7. of Fifteen Cents per share, was levied by the Board of Directors, December 28th, 1863 payable to FRANCIS V. SCUDDER, Sec'y.

Rooms of the Company, 9 and 10, northeast corner of Montgomery and Pine streets. j2-1m

San Francisco Stock and Exchange Board.—Rooms Brokers' Block, Montgomery street. President, J. B. E. CAVALIER: Secretary, FRANKLIN LAWTON.

San Francisco Board of Brokers.—Rooms 430 Montgomery Street. President, SAMUEL PURNY; Secretary, M. G. ELMORE.

Pacific Board of Brokers.—Rooms on the corner of Washington and Montgomery Streets, San Francisco. President, W. P. DENCKLA; Secretary, J. H. GAGER.

California State Library.—Rooms corner of J and Second streets, Sacramento. Hours from 9 A. M. to 10 P. M., during the session of the Legislature, and from 9 A. M. to 4 P. M. at other times. Free to all. W. STRATON, State Librarian.

STOCKTON.—Patrons of the *Press* will obtain the paper at the News Store of Kerski Bros, who receive them by Sunday morning's boat.

Zenith Gold and Silver Mining Company, Office 530 Jackson street, San Francisco, January 6th, 1864.—Notice is hereby given, that, in accordance with the laws of the State of California, there will be sold at public auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on MONDAY, February 8, 1864, at 11 o'clock A. M., to the highest bidder for cash, in United States gold coin, so many shares of the capital stock of the Zenith Gold and Silver Mining Company, standing in the names of the following shareholders, as will be necessary for the payment of three assessments duly levied by the Board of Trustees, as follows; to wit: Assessment No. 1, Twenty-five cents per share, levied September 24, 1863; Assessment No. 2, Twenty cents per share, levied October 13, 1863; Assessment No. 3, Thirty cents per share, levied December 2, 1863, together with costs of advertising and expenses of sale, unless said assessments, with accruing charges, are previously paid:

Names.	No. Ass'ts	Shares.	Amount.
D. C. Park	1 2 3	30	$25 50
J. W. Sheppard	2 3	20	10
R. W. Hent	2 3	50	25
W. Wilmot	2 3	65	32 50
E. Franklin	2 3	50	25
W. S. Lyons	2 3	45	23 50
H. M. Beers	2 3	10	5
L. L. Lewis	2 3	20	10
W. Carey Jones	2 3	5	2 50
H. J. Reynolds	2 3	2	1
S. D. Scofield	2 3	10	5
J. P. Bell	3	25	7 50
W. Osborn	3	85	25 50
J. G. Perkins	3	30	9
A. Buetell	3	4	12
Geo. C. Moon	3	87	26 10
Wm. H. Knapp	3	12	3 60
Wm. B. Maxson	3	22	6 60
H. C. Patridge	3	10	3
C. Wilson	3	5	1 50
E. N. Stratton	3	5	1 50
A. Harris	3	84	25 20
Gilman Reed	3	5	1 50
E. N. Longfellow	3	10	3
J. M. Depass	3	10	3
C. Harley	3	23	6 90
J. Thompson	3	5	1 50
G. H. Crowe	3	12	3 60

By order of the Board of Trustees.

The office of the Zenith Gold and Silver Mining Company has been Removed to No. 528 Montgomery street.

3-td M. G. ELMORE, Secretary.

Table Mountain Copper Mining Company.—Office, 523 Montgomery street, San Francisco. Notice is hereby given that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Table Mountain Copper Mining Company, there will be sold at public auction at the office of the Company, San Francisco, on FRIDAY, February 12th, at 11 o'clock A. M. of that day, to the highest bidder, in cash, for United States Gold coin, so many shares of the capital stock of said Company standing in the names of the following Shareholders as will be necessary to pay assessment No. 3, duly levied thereon and now being due and unpaid, together with the expenses of advertising and sale—to wit:

Name.	No. cert.	No. Shares.	Amt.
Samuel Geddes	7, 28, 30, 31, 32	57	257
N. H. A Mason	143	133	133
R. J. Vandewater	136, 156	34	24
John Holman	140	4	4
William Boyer	210	10	10
Levi Drew	205	5	5
Henry Van Vleck	187	25	25

By order of the Board of Trustees. M. O. ELMORE, Sec.

San Francisco, January 11, 1863.

Great Central Mining Company.—Notice is hereby given that by order of the Board of Trustees of the Great Central Mining Company, pursuant to the By-Laws thereof and the laws of the State of California, there will be sold at public auction, on WEDNESDAY, February 10, 1864, to the highest bidder, at the auction rooms of Jerome Rice & Co., 327 Montgomery St., San Francisco, so many shares of said Company standing in the names of the following persons as will pay the amount due for assessments, together with costs of advertising and sale:

Names.	Shares.	No. Assts.	Amount.
Jas S Tumble	100	1 2	$50 00
G W Melone	10	2	2 50
M Devlin	20	2	5 00
W C Smith	5	2	1 25
P H Lovell	25	2	6 25
E H Rockwell	50	2	12 50
Max Strobel	600	1 2	300 00
Jas P Newcomb	100	1 2	50 00

2-1m H. C. KIBBE, Secretary.

Enterprise Copper Mining Co.—Office, 528 Montgomery St., San Francisco. Notice is hereby given that there will be sold at the office of the Enterprise Copper Mining Company, on SATURDAY, January 30th., 1864, at 10 o'clock, A. M., so many shares of the Capital Stock of said Company as will be necessary to pay all assessments due and delinquent, December 10th., 1863, standing in the names of the following parties:

	Share.	Am't. due.
William Harris	400	$100 00
J. P. Dameron	100	20 00
John M. Cannon	25	7 50
Thomas Donahoe	15	4 50
John Cochran	25	7 50
G. W. Melone	01	3 00

By order of the Board of Trustees. M. O. ELMORE, Sec.

1m

Mount Eden Mining Co.—Notice is hereby given, that the Board of Trustees of the Mount Eden Mining Company, at a meeting held January 2d, 1864, levied an assessment of One Dollar on each and every share of the Capital Stock of said Company, said assessment payable immediately in gold coin to the Secretary, at the office of the Company, No. 620 Washington street, Room No. 3. H. B. CONODON, Secretary.

San Francisco, January 16, 1864. 3-5t

Scorpion Silver Mining Company.—Notice is hereby given, that by a resolution adopted by the Board of Trustees of the Scorpion Silver Mining Company, at a meeting held on this day, an assessment of twenty-five (25c.) cents was levied upon every share of the Capital stock of said company, to be paid in gold coin of the United States, on or before the 29th day of January, 1864, at the office of the company, No. 617 Clay street.

W. H. MARTIN, Sec'y.

San Francisco, December 29, 1863. j2-1m

Bullion Gold and Silver Mining Company, Van Horn District.—Notice is hereby given that a meeting of the stockholders of the above named company will be held at the office of the Secretary, at 7 o'clock on MONDAY EVENING, the 25th day of January next, for the election of officers, and the transaction of other legal business. By order of the President,

San Francisco, Dec. 19, 1863. (2-m) T. L. BIBBINS, Sec'y.

Silver Butte Consolidated Silver Mining Company.—Office 528 Montgomery street, San Francisco. Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Silver Butte Consolidated Silver Mining Company, there will be sold at public auction, at the office of the Company, San Francisco, on SATURDAY, February 27th, at 11 o'clock A. M. of that day, to the highest bidder, for cash, in United States Gold coin, so many shares of the capital Stock of said Company, standing in the names of the following shareholders, as will be necessary to pay assessment Nos. 2 and 3, duly levied thereon, and now being due and unpaid, together with the expense of advertising and sale—to wit:

Name.	No. cert.	No. Ass't	Shares.	Amt.
Browning, John	137, 138, 139	3	25	$12 50
Beuchamp, J. W.	100, 239	2 and 3	20	20
Butman, H.	152	3	2	1
Cross, J.	191	3	25	12 50
Ebeling, P.	131	3	1	50
Erskine, Geo. B.	301	3	3	1 50
Fallon, M. M.	111	3	1	50
French, B. F.	178	3	5	2 50
Johnson, B. R.	163	3	1	50
Johnson, G. H.	54, 144, 146	2 and 3	26	26
Johnson, G. H.	25, 56, 236			
	240, 257, 258, 259	3	35	17 50
Keek, H.	192 to 199 in., 201	2 and 3	125	125
Loomis, Riley	135, 354, 355, 356	3	26	13
Lord, T. B.	371	3	64	32
Littlefield, J. D	84, 85, 88, 89, 214, 215	3	81	40 50
Mains, J. R.	41, 42, 48, 49, 304	3	27	13 50
Merlain, E. D.	404, 266	2 and 3	21	21
Manchester, A.	100	2 and s	6	6
Norcross, J. K.	184	3	2	1
Osborn, W. F.	349 350 351	3	23	11 50
Percival R.	66, 91, 95, 98, 282	s	12	6
Sproul, J. B.	211	3	5	2 50
Stratton, S.	212, 339	3	20	10
Wood, Sarah	213, 352	3	6	3

By order of the Board of Trustees. M. O. ELMORE, Sec.

San Francisco Silver Mining Company, Lower California, Office 542 Sacramento street, San Francisco, December 24th, 1863—Notice is hereby given that in accordance with the laws of the State of California, and the By-laws of the Company, and an order duly made by the Board of Trustees of the San Francisco Silver Mining Company, there will be sold at public auction, at the sales-room of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on MONDAY, January 25th, 1864, to the highest bidder for cash, in U. S. gold coin, so many shares of the capital stock of said Company, standing in the names of the following persons, as will be sufficient to pay the assessments heretofore levied and past due, together with the cost of advertisements and expenses of sale, unless said assessments and charges are sooner paid.

Names.	Shares.	Amount.
S. C. Bradshaw	439	$304 05
S. C. Bradshaw, Jr.	20	7 12
Geo. B. Reeves	25	8 12
E. T. Peck	50	17 50
J. R. Stewart	25	17 50
C. H. Parker	76	15 00
G. H. Ames	5	1 00
Wm. H. Buthington	6	1 20
C. Boardman	25	8 12
J. M. Cummings	90	18 00
H. W. Chesney	10	1 00
Francis Cutting	5	1 63
D. Kimball	10	1 00
Mrs. C. Smith	3	80
E. Sammis	10	1 00
C. Lasselle Taylor	125	12 50
J. R. Warren	10	1 00
Geo. O. Whitney	75	15 00
J. B. Ryder	75	15 00
Robert C. Bartlett	20	2 00
Martin F. Townsend	20	2 00
John Pinkhaber	6	1 00
Mrs. C. S. Brownell	7	70
John Perry	5	50
Simon Strahan	6	50
W. T. James	5	1 63
Henry S. Smith	20	2 00
W. L. Anderson	25	2 50
Chas. M. Cornell	10	1 00
P. J. Wood	25	6 00
John A. Lundquist	5	50
Thos. Pike	25	2 50
G. W. Smith	10	1 00

By order of the Board of Trustees.

dec28-4t H. C. KIBBE, Secretary.

Mammoth Consolidated Gold & Silver Mining Co., Excelsior District, N. T.—Office 528 Montgomery St., San Francisco, Nov. 28, 1863, Notice is hereby given that there will be sold at Public Auction, at the office of the Company, in San Francisco, on Saturday January 9th., 1864 at 12 o'clock, M., of that day, to the highest bidder, for cash in U. S. gold coin, so many Shares of the Capital Stock of said Company standing in the names of the following shareholders as will be necesary to pay assessment No. 1., of ten (10) cents per share, duly levied thereon by the Board of Trustees on the 9th. of May, 1863; also assessment No. 2., of thirty (30) cents per share, duly levied thereon by the Board of Trustees on the 27th of June, 1863, together with all the expenses of advertising and sale, unless said assessments are previously paid to M. G. Elmore, Sec., San Francisco, or to W. H. Dairymple, Fiaaocial Sec., Aurora.

Names	No. Cer't.,	No. Ass't.,	Shares,	Am't.
J B Best	74 343	1 2	300	115 00
G W Baily	344	1 2	200	80 00
J J Coddington	358	1 2	66¼	22 50
D C Crooker	334	1 2	250	100 00
T A Cutter	25 393 to 403 incl'	2	125	37 50
J R Dudleston	27 28	1 2	50	20 00
W D Garland	437 442 450 451 503	2	275	82 50
D H Haskell	65 to 69 incl'	1 2	50	20 00
James Jaques	333	1 2	250	100 00
R P Johuson	443	2	100	30 00
J H Latcham	283 284 288 to 291 incl'	2	60	16 93
E J Mathews	34	2	200	60 00
W Mason	92 462	2	13	3 90
Johu Patten	418 417	2	15	4 50
Geo Raymand	126 to 131 incl' 136 to 142 incl'	2	125	37 50
G H Rogers	143 to 151 incl'	2	200	60 00
J S Shultz	361 487	1 2	95	38 00
G D Myers	360	1 2	5	2 00
A J Severe	170 to 189 incl'	2	200	60 00
N Steiner	118 to 124 incl'	1 2	100	40 00
H S Van Dine	218 338	1 2	175	68 75
H Watson	263 to 267 incl'	2	25	7 50
J C Darragh	268 to 274 incl,	2	50	15 00
J M Meredith	77, 448, 447	2	100	25 00
J Hawkins	73, 452, 456, 455, 454	1 2	175	70 00
C E H Wheaton	570	1 2	25	10 00

By order of Board of Trustees.

M. G. ELMORE, Secretary.

The above sale is postponed until Saturday, January 30th. 1864, at the same place and hour. By order of the Board of Trustees.

2 M. G. ELMORE, Secretary.

RELIABLE ASSAYS can always be obtained on application to J. H. Churchill, Government House, San Francisco.

AND SCIENTIFIC

Mining Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

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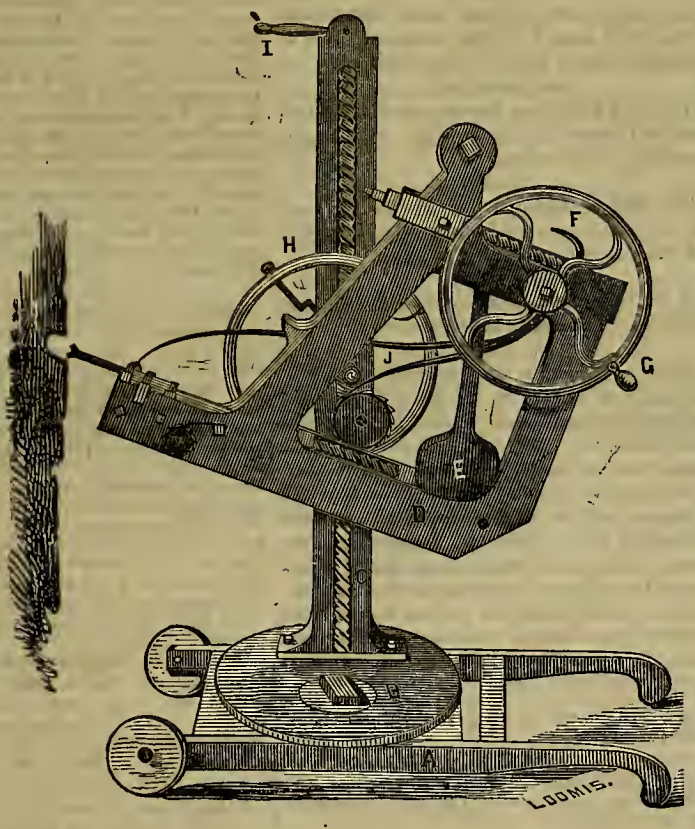
ROCK DRILLING MACHINE.

The accompanying cut presents a very distinct and accurate representation of the "Rock Drilling Machine" recently invented and patented by Mr. J. S. French, of this city. It is expected, and judging from the execution which it will effect in a few moments of operation, we think that it is claimed with reason, that this machine will perform the work of at least four men working with ordinary hand drills. A careful examination of the accompanying illustration cannot fail to satisfy any mechanical mind that the machine is simple in its construction, compact, and is easily moved from point to point, as may be required for its safety when in actual use in a tunnel or dritt:—A, is the foundation, formed similar to common two-wheeled hand truck. B, is a turn-table, which can make an entire revolution horizontally. C, is a column resting upon the turn-table B, containing a screw upon which the drilling frame D rests, and by which it is raised or lowered the full length of the column. D, is a drilling frame. E, is the hammer. F, is a cam by which the hammer is drawn back and at the same time pressed upon two spiral springs, located near the journals of the cam, by which the blow of the hammer is given. G, is the balance wheel which operates the whole. H, is a circle attached to the drilling frame D, by which the drill can be held at any angle desired with the column C. I, is a crank which operates the screw in the column C. J, is a double arm for driving back and turning the drill.



FRENCH'S ROCK DRILLING MACHINE.

In the construction of this machine, it has not been the object of the inventor to introduce any new principle, but simply to work the common hand-drill by machinery. This the machine does most effectually. The drill is held, turned, pressed firmly against the rock at the moment of receiving the blow, and the blow, itself given, with a hammer; all precisely as in ordinary hand work. At every back motion of the hammer the drill is drawn back, slightly turned, (according to the nature of the rock.) and immediately pressed firmly against the rock, in which position it receives the blow. The drill can be presented and be made to work at any desirable point in the face of the tunnel, or upon the roof, floor or sides. The machine is sixteen inches wide, three feet long, six feet high, and weighs five hundred and fifty pounds.

The advantages which will accrue to California from the successful introduction of this machine, are incalculable. The cost of running hard rock tunnels would be so materially reduced, that the number of lodes prospected would soon be doubled, adding within one or two years, doubtless, hundreds if not thousand of paying claims.

Any further information with regard to this machine may be obtained on addressing this office by letter, or by applying to the patentee, J. S. French, Esq., of this city.

[Written for the Mining and Scientific Press.]

Human Fossils in California.

An article has recently appeared in a cotemporary, with the above title; in which the writer has carefully collated all the evidence, within his reach, to prove that man existed in California, long before the historic period. Much of the material is of value, but there are a few errors, too grave to be passed over in silence. "There were giants in those days," is an old text, and one very often misapplied. The human remains found by M. Boucher de Perthes, Prof. Schmerling and others in Europe, and the hip bone from Natchez in our own country, do not indicate a size greater than the present stature of men; and no evidence has yet been submitted to any competent authority, of such a character as to lead to the suspicion of a degeneration in man of the present day from the size of his forefathers.

"The gigantic skeleton of a man," mentioned by Clavijero as having been found in Lower California, was probably that of some pachydermatous animal, now extinct. Such mistakes have often occurred, even in persons as well informed as that author, who was not an anatomist, and who might readily have been deceived by a lot of disjointed bones.

Tradition of dwarfish or gigantic races of men existed among almost all semi-civilized and savage tribes, and should go for nothing in scientific investigations. Our author supplies us with one which has within itself the proof of its own valuelessness. The skeleton of a 'man,' reported by non-scientific observers, to have had eighty teeth in its skull, is open to very grave suspicion of *not* being a skeleton at all. In other words, it looks like a pure fabrication, inasmuch as none of the higher animals have even an approach to the above number of teeth.

Again, in Tuolumne Co. we have the thigh bone and skull of a man, of *twice the usual size*. Such important matters need the most careful authentication before they can be received as evidence. The separate items however, do not need individual consideration. All bones supposed to be human, as well as all remains of human art, found in the auriferous gravel of this coast should be preserved as priceless treasures. Careful notes should be taken on the spot *and at the time* of discovery, and the specimens with the notes should be forwarded to some competent scientific man, who is able to weigh the testimony and make proper use of the discovery.

Innumerable bones of mastodons, elephants, horse and smaller animals have been found in the gold bearing gravels of California; but as yet there is no proof that a single bone or tooth of man has been found in any deposit older than the historic period. If persons engaged in placer or hydraulic mining, were to pay the proper amount of attention, and carefully preserve every fragment of bone, it is very possible that California might, before long, furnish evidence of the habitation of the country during the age of the mammoth and the mastodon. o.

We shall soon give an Illustration of J. M. Parry's New Patent Cotton, Wool and Hay Press.

Correspondence.

[Written for the Mining and Scientific Press.]

Sonora—Tuolumne County.

BY OUR TRAVELING CORRESPONDENT.

There are few towns, if any, which in their early history obtained a more unenviable reputation than Sonora. It seemed as if the lawless and depraved of every nation on earth, and every State in the Union, collected there, with a mutual understanding, to carry out their nefarious and licentious practices; but, as the placer diggings gradually decreased, the means of indulgence decreased in exact ratio; and thus, here as elsewhere, a better condition of morals was inaugurated, which has been carefully fostered, until her citizens now will bear comparison with any people for sobriety, refinement, and social hospitality.

Sonora, as most everybody knows, is the chief town of Tuolumne county, and is quite a pretentious and important place, both as regards its present and its future. I do not think she has seen her best days by any means, if I am right in my estimate of the gold and copper mines in the neighborhood.—Washoe, it is true, has drained much of her population, yet, at the last general election, the precinct polled some 600 votes. She has a good Court House, two public schools, Protestant and Catholic, both largely attended, five churches, two fine hotels, two ably-conducted weeklies, with livery stables, stores and saloons, which would all do credit to a much larger town. Of the public buildings, the Episcopal church is decidedly the most creditable.

There always was, and still is, a large array of ability in Sonora; but, unfortunately, at present it is not harmonious, and much political and religious sectarianism prevails. The bar, the pulpit and the press are well represented here; the first and last boast names known throughout the State in their respective spheres—the other very soon will. Rev. Messrs. Chapin, of the Episcopal church, and Martin, Jr., of the Presbyterian, are both able, earnest preachers, and destined in time to make their mark.

The festivities of Christmas and New Years were observed here with all the gaieties of the season. As your representative, I have to acknowledge the marked courtesy paid to me by all parties, especially the Episcopalians and Masons. To the festival and ball of the one, and to the annual dinner and ball of the other, I had a cordial invitation, and spent a happy time with each. Before the Masons, in responding to the toast of the Press, and your journal in particular, I mounted my old "hobby," and, in spite of the mixed political bias, uttered a prayer for the eternal unbroken sovereignty of America. In Europe, under the *monarchial* system, a *multiplicity* of governments has been the degradation of man, by subordinating the interests of a continent to the trifling claims of petty princes. In South America, under the *republican* system, you find precisely the same thing. Not, then, for the negro, but the *white* man—for the brave, old sturdy Saxon, who has done so much for the world—I still hold fast to the eternal sovereignty of the American Union—the foundation and hope of his liberty and progress.

THE AURIFEROUS MINES OF SONORA.

It was only since my visit to Sonora that her people were aware of the existence of copper within the precincts of the town, of which I shall speak hereafter. At present, it is my object to speak of her auriferous quartz, with a view not so much to her immediate benefit as that of the whole country. I shall not, therefore, adopt the same regularity of system as with the copper mines, but simply give the name, character and location of such claims.

In the minds of the public, generally, a conviction has long been growing that Tuolumne county owns the best and most numerous quartz veins in the State. This fact, however, has never been realized in San Francisco, where it is most important it should be known, if this auriferous wealth is to be successfully developed. Let us see how the case stands, and whether this assumption is based on facts; and in giving these facts I wish it understood I speak reliably, as in my copper reports, from personal observations in some cases, and from authentic records in others. The first and most important is the

EXCELSIOR.

It contains 1,045 feet, situated 17 miles above Sonora, in Sugar Pine District. A single share in this claim could not be bought for $10,000. The company have a good 10-stamp mill. The income tax is assessed at $75,000. From the last six day's run, previous to my obtaining these notes, $24,000 were realized. There is certainly no claim in California, and very few in Nevada Territory, superior to the Excelsior. If, in uniformity and reliability of yield this mine was in Washoe, instead of within one day's pleasant ride from Stockton, each foot would bring $4,000.

GILSON MINE.

This mine is in the same district, a few miles nearer Sonora, with a good 10-stamp mill. The Gilson also has a high reputation, being known to pay well. I regret I had not an opportunity of accepting Mr. Gilson's invitation to visit him, as I should have gathered many important particulars.

SOULSBY VEIN.

I do not know whether I have the name of this claim down correctly. That, however, is as near as I can get at it, as written by the gentleman who furnished me with the particulars. Mr. D. Davidson, of San Francisco, is the principal or sole owner of this claim, and it has a high local reputation. It is 12 miles from Sonora, with a 20-stamp steam mill.

CONFIDENCE MILL.

This is 10 miles from Sonora, now working rock from the Comstock and Smith veins, and averaging from $60 to $150 per ton.

EUREKA.

This claim is situated at Summersville, the exact distance from Sonora I did not learn. It is a splendid vein, and makes a monthly dividend.

RIVERSIDE.

A rich vein, 12 miles from Sonora, with a 20-stamp water mill. I heard this mine spoken very highly of.

WARFIELD.

This is now known as the Gardner claim, situated 12 miles from Sonora, on the South Fork of the Tuolumne river, and about 7 miles from the celebrated Excelsior. The vein is from 3 to 6 feet thick, well defined, and stripped at intervals for 1,800 feet. The company are about closing a contract to put up a 15-stamp mill, to be completed in 90 days, with "Wheeler's Pans"—their first introduction in the county. Very high expectations are formed of this claim. Down the shaft 80 feet, abandoned for a tunnel on account of water, free gold can be seen in the rock from top to bottom. Running north from these mines to the tributaries of the Stanislaus river, within the precincts of Columbia—a very pretty town—the fruit-orchard of the county—are a number of others, well worthy of mention. The first on my list is the

SUMMIT PASS.

A party from San Francisco are now engaged here putting up a 15-stamp mill. The vein is reported to well opened and developed, and very promising.

JONES & WOODMAN.

A fine lead on the Stanislaus South Fork. Men are engaged in building machinery.

HUNTER VEIN.

Located 15 miles from Sonora, and I have since understood in that precinct, not Columbia. That point, however, is immaterial. The company run a 10-stamp water mill, and are working remarkably good rock.

YANKEE HILL.

A gold and silver claim. The rock assays at the rate of 80 oz. silver and 10 oz. gold to the ton; nor was this their best rock. A tunnel is now being run 150 feet to cut the vein 130 feet deep; from 20 to 30 feet more to run. Prospects good.

SHANGHAI.

A 5-stamp mill going up, with a vacant battery for 5 more when necessary. A strong copper lead runs contiguous to this lead, and shows in the tunnel.

COLUMBIA.

This is also gold and silver, and considered the most important in the section. Two assays, one by Kellogg & Co. and the other by Molitor, averaged nearly the same—42 oz. silver and some gold.

ARGENTUM.

Gold and silver. Tunnel 200 feet; about 100 feet more to run. Vein 2 feet thick; average assay, $160 to the ton. A 10-stamp mill is to be put up this season.

U. S. GRANT.

Gold vein; shaft 50 feet; vein well developed 3 feet thick; assays really large. A 10-stamp mill is to go up this season.

Such are the gold and silver mines in the northern part of the county, above Sonora and Columbia. The country in which these claims are located affords the best facilities for mining—a fine climate, easy of access, with plenty of water and an abundance of timber. There are many more in a less advanced state, which I shall leave unnoticed for the present, wishing to speak only of such as defy repudiation. We must now come below Sonora once more to Jamestown. Here also are several excellent gold mines, in fine working order and paying handsomely. These are on the great Mother Ledge, as it is termed, which runs through the entire State. It is on this mammoth ledge that the celebrated Fremont and Melones are situated.

APP'S MILL.

This mill is somewhat over a mile from the town, near the old "Wood's Crossing." The rock of this company has been paying well for years. During my stay in the neighborhood, 20 tons from a shaft considerably deeper than they have previously used, averaged $75 a ton. The machinery is, however, imperfect, and loses, as is now ascertained, at least one-half the gold. Mr. App has recently put one of Varney's Amalgamators in use. The first experiment on the *tailings*, paid at the rate of $30 a ton; the second, with an application of steam, paid $10 more. Now imagine $40 a ton being lost! How many leads in Washoe are there, like this, paying for years straight along from $50 to $120 a ton, and which, in all probability, will pay as well for years to come? The works are very complete. At the end of the tunnel, considerably over 100 feet from the surface, they have a good steam engine, and blacksmith shop complete. These are under the charge of Mr. Darrall.

HESLIP'S MILL.

This is located at Quartz Mountain, near my own old quarters in 1850. It runs 10 stamps; water power, with a 40-foot wheel. The rock averages from $15 to $30 a ton, and crushing easily, of course pays well. Mr. Heslip is very intelligent, as well as practical, and thoroughly posted in the quartz business. He is making great improvements in his mill, and uses Brevoort's pans for amalgamating, of which he speaks favorably. All this quartz is sulphuret rock, and the difficulty is the correct theory of amalgamating. I cannot too highly appreciate the friendship of this gentleman. We'll meet again, Heslip, I hope, and chant together the grand old Litany of our Church, "*Integer vitæ, celerisque purus.*" Well, never mind, old boy, I won't quote Latin to you; but this begins one of Horace's most beautiful odes, and whom than yourself, pray, better deserves the compliment?

MYERS & CO.'S MILL.

Situated on Wood's creek; water power; 10 stamps, with 40-foot wheel. The rock here is taken from the same main ledge, between the App and Heslip claims, and pays well. East of this ledge, probably a mile or more, is the

SHAMROCK COMPANY.

This is a newly-discovered vein, 2 feet thick. Out of 25 tons selected rock the company got $500. The average rock is put down at $40 a ton. Crossing back from here to the north side of the Jamestown, on the old main ledge, the first is the

PRESTON & GARRISON.

Their mill is not at work, and, I believe, the company contemplate erecting a new one. Judge Preston showed me the receipts of different assays. The first was $57 silver and $18 gold to the ton; the second (selected rock) ran up to $104 silver. Adjoining is the Harris and Dart, the Williams, and Reese claims, the last on the south side of Table Mountain. All these have rock, in the large vein, and small one running parallel, which yields from $10 to $200 per ton. Beyond the mountain, on the north side, is the

WILLIS & HODGES.

This company have a mill, but I do not know its capacity. Their rock is rich, and each member of

the company supposed to be in affluent circumstances.

These form, as near as I could learn, all the reliable and developed quartz mines of Tuolumne county in and about Sonora. In the same spirit in which some people say there is no copper west of Copperopolis, others say there are no mines in Tuolumne county worth a straw. I have already proved the fallacy of the former assertion; I believe I have now done the same for the latter. Will these veracious and well-informed persons give me a list of claims in Washoe, Reese River, Humboldt, Fort Mohave, Mexico, Idaho, Devil's Gate, Infernal Ridge, Diabolical Cañon, Fiends' Creek, or any other distant, or hifalutin-named place, 1,000 miles away, that, with the same imperfect mode of working, will pay the same amount of money from one year's end to another? They cannot do so. My word for it, Tuolumne county will soon vindicate herself in this matter; then men of large means, who are minus a few superfluous dollars, and especially men of limited means, who have spent *all* by this foolish mania of "bobbing 'round," will regret their spectacles were so dull that they could not see where the trump card lay, and how foolish it was to seek "over the hills and far away" the fortune or competency, as the case may be, which they had only to stretch out their hands and grasp *at home*.

Here, at Jamestown, all that is wanted to change the very face of things, is a good reliable 30 or 40-stamp mill, erected on this same "mother ledge." As far as I can ascertain, every ton of it, even the croppings, will pay $10, and, with the facility of getting the rock, that rate alone would give a splendid interest on the expenditure. I have understood that Donahue & Ryan, or some other monied firm, did make a proposal to certain parties to put up a 15-stamp mill for a half interest in the claim. The idea is good, but it does not go far enough. Instead of a 15-stamp mill, with a half-interest in *one* claim, let them double the size, and take a proportionate interest in *all* the claims. They can have half Whiskey Hill deeded them on these terms. As it is, the claims are of little or no use to their owners, simply because they have not capital to put up proper machinery. They can make a comfortable living now, and that's all. They know and feel it would be better for them to give half their claims away, because the other half, worked through a good mill, would give them a fortune, rather than to keep the whole comparatively useless as it is. If the parties below are serious in this matter, a negotiation such as I mention can be made very easily. I would advise them to see Judge Preston or Messrs. Harris & Co. Such an arrangement, if carried out, would be of immense importance to the county, and result in large profit to all concerned.

And now I must retrace my steps. It has taken me somewhat longer than I desired to get through; but I trust my labors will not in the end be found profitless either to your paper or to the great interests it represents. Here, as elsewhere, I am not conscious of having made a misrepresentation of any claim, good or bad. I am satisfied that in the day of her prosperity Tuolumne county will not forget the MINING PRESS. L. H.

THE DRAFT.—It appears from the report of the Provost-Marshal General, which has recently been submitted, that up to the 1st of November 50,000 men had been procured by the draft. The entire enrollment—seven States not included—amounts to 3,113,305 men. One-fifth of the number enrolled in the first class have been called upon. It has generally been supposed that the proportion of persons enrolled and subsequently exempted from the draft, in our own country, has been vastly larger than that generally observed in European countries. The Marshal shows, by the following statistics, that such is not the case. He says:

It appears from tables prepared by the Medical Inspector that the ratios of rejection for mental and physical infirmity in the United States, France and Great Britain, for the periods stated, were as follows:

	United States.		France.		Great Britain.	
	In 1863	From 1841 to '43	In 1859	From 1842 to '53	In 1860	In 1861
Ratio rejected per 1,000.....	319.1	324.4	317	335	318	451

EXPORT OF GOLD FROM VICTORIA.—From tables published in the Victoria *Chronicle*, it appears that since 1858 the amount of $10,200,184 of treasure has been exported to Europe and the United States. "This," says the *Chronicle*, "is through the ordinary banking channels, but our contribution to the general stock of precious metals in the world since 1858 has been double these figures—or upwards of $20,000,000.

Trip to the Mines---Mariposa.

CONTINUED.

OSO VALLEY, OR BEAR VALLEY, named, I suppose, after some grizzly monarch of the chapparal, is surrounded by the foot hills of the Sierras, and is in sight of their everlasting snow-capped summits. The valley is splendidly situated, and from the cursory glance which we took of the town we should judge that considerable busines must be transacted there. The Fremont company have a large fire-proof store in the centre of the town, and keep a full variety of goods. The hotel is well kept.

Mariposa is one of the richest counties on the Pacific coast, yet the very erroneous opinion is entertained, in California, as well as in the East, that the eight square leagues granted to Fremont has taken up the richest portion of the county. It is true that so great a monopoly as this, deadens much individual enterprise; but nevertheless, mineralogically speaking the richest portion of Mariposa is not included in this Fremont gobble.

A great belt of copper is stretched across the foothills of Mariposa county; more particularly in and around Hornitos, one meets even better indications than are generally seen in Calaveras county, and many a rood of auriferous ground remains unwashed for want of water, while the hills are white with quartz veins, and almost every stroke of the pick turns up the precious metal. To the miner and prospector we say that no better or richer field presents itself on the Pacific coast than Mariposa county.

THE TEMPERANCE CREEK COPPER MINE.

Is situated about six miles from Hornitos, in what is called the Chamisal. The company have a shaft about 45 feet deep, and have taken out some good shipping ore, ranging from 15 to 35 per cent. The ore carries with it black oxides. This mine promises well; work is suspended for the present, but should be again commenced, as no doubt the vein is a promising one.

FLOYD'S MINE.

This is a gold vein and is located near the Temperance Creek mine, and was formerly worked by Mexicans. It has a shaft down 80 feet and every foot shows quartz carrying gold. Many rich specimens have been taken out of this shaft and locked up; one of which was presented to us for our cabinet, and for which we desire to express thanks to Mr. Floyd.

Having now exhausted the time allotted to us, we returned to Hornitos to enjoy once more the hospitality of Mr. Hall, the landlord of the place, who does everything in his power to make the traveler happy. Although having suffered much from the loss, by fire, of his hotel, yet everything was done by him to make our stay pleasant. We hope the new house which he has commenced, and which is being rapidly pushed to completion, will prove "eminently successful and highly remunerative" to him.

To Dr. Kimball and Mr. Engle we desire to express our thanks for their attention and kindness, with a firm belief that Hornitos will soon arise from her ashes, like a Phoenix, and become more populous than some of her present rivals nearer the bay.

A NEW ROUTE TO WALKER'S DIGGINGS.—On the third of January, an expedition, headed by Mr. Herman Erenberg, returned to La Paz, having accomplished, to their perfect satisfaction, their object, viz, the finding of a shorter and better road to Weaver and Walker mines. They have found a good road, 80 miles shorter than the one heretofore traveled, with plenty of water and grass. This will make the route by La Paz superior to any other.

ON account of the great weight at the centre of our ironclads, it has been found dangerous to draw them up on ordinary "shipways" for purposes of repairs. Under these circumstances, Admiral Dahlgren has hit upon the expedient of beaching said vessels at high tide, when the bottoms are to be cleaned. One end is first beached and then the other. It is stated that the plan works well.

[Written for the Mining and Scientific Press.]

From Arizona.

MINERALPORT, Arizona, Jan. 3, 1864.

One year has wrought many changes in this part of the world. A little more than twelve months ago attention was directed hitherward by the swarm of gold-hunters—a motley crew of Mexicans and white men—who passed up the Colorado, skimming its banks for gold; and now we find them far out upon the verge of the wildest country, on the threshold of a district only known as the home of the Apache and the theme of golden stories, beyond whose prescribed limits a few hunters and trappers have ventured, who tell of strange old ruins and beautiful valleys and curious mountains. Although the Spring months are expected to develop to the waiting miners a rich harvest of gold, both in Wenver and Walker Diggings, an expedition is on foot, to be thoroughly organized for starting, in April next, for the

WHITE MOUNTAIN,

So called from the numerous quartz veins it contains. From its elevation flows the San Francisco, Salt, Blue, Black, and other streams, which empty into the Gila, all of which are gold-bearing, and it is not improbable that the next great gold-field of the world will be found in that region. The expedition will go at least one hundred strong, under the guidance of the veteran old hunters, Capts. Walker and Porter. There has been an impression that the San Francisco Mountain country was the great center of the gold region of Arizona, but the report of Lieut. Ives is unfavorable to it as being a gold country at all—the mountain itself being a volcano of recent date. The White Mountain is situated, as near as we can judge, between the San Francisco Mountain and the Gila river, between three and four hundred miles easterly from this point.

QUARTZ MINING.

A year has witnessed the mutations from the feverish excitement caused by new discoveries of rich quartz veins, to the race after capital for their development—the ordeal of humbug—and finally to sober, earnest mining, which, for many reasons has fallen far short of the first ardent expectations. It's all fair sailing until the rough mountains are attacked. Many things have militated against the quartz mining—the failure of the steamboat company to bring up the supplies shipped by way of the river, and the general failure of companies to furnish sufficient capital to commence work. A few hundred dollars and a thousand sacks was the equipment for a superintendent, and the next vessel was expected to bring back the sacks, full of rich mineral. That these expectations have generally met with disappointment is not to be wondered at; still, throughout the several districts from Pecacho to El Dorado Cañon, work is being carried on. In this district (Weaver), a few companies have worked with vigor and success, developing to their satisfaction true veins of copper ore. One company has already taken out enough ore to more than pay the expense of the extensive prospecting, and I do not mention it as an exception, but merely to show that the extravagant expectations before mentioned, have, and may be again realized—but not as a rule. Some men who have visited this country, from prejudice or ignorance, have essayed to scientifically condemn one district and exalt another. The simple truth is, they are all, geologically, "in the same boat." All the veins discovered may not turn out "true veins," but one or two leads in every district will controvert the sweeping, partial judgment passed by some would-be wise men.

NOW AND THEN.

Less than a year ago, Messrs. Editors, your correspondent passed, for the first time, over the road from San Bernardino to La Paz. One or two pioneers had ventured to pass over the desert sands with wagons, thinking it a great feat, and at no watering place was there a station kept—the small pox had driven off the Indians, and the desert was left to solitude. Now a weekly stage runs over the road, and at every watering place there is a station, a grocery, and accommodations for man and beast, and the road is lined with heavy teams, freighting out goods. The season has been a perfect harvest to teamsters. N.

[Written for the Mining and Scientific Press.]

MINING GOSSIP.

EDITED BY FRANK WARDELL.

[In this department of the Mining and Scientific Press we propose to give various and brief accounts of mining companies, and shall, under all circumstances, write *plainly* respecting their merits and de-merits; furthermore, we shall bring to light such transactions as may come within our knowledge regarding the "Bulling and Bearing" system and the "underground" actions of both Trustees and Brokers. We are vain enough to suppose, at all events, that we have the "inside track," and shall, without *hesitancy or fear*, give to the public, from time to time, a peep behind the scenes whenever the occasion justifies. If, in doing so, at any time we have fallen in error as to our report, and it can be so proven, nothing will afford us more pleasure than to make the "*amende honorable*" by correcting the same. We shall feel under obligations to those who are interested in stock if they will communicate to us such items as may come under their observations, and which will prove interesting to our readers. This department is open for free discussion to "one and all." Our object is to render justice to every one. Communications, in all cases, must contain the author's name and address to insure publication, which will be kept *strictly confidential*—otherwise no notice will be taken of them.]

In the commencement of our task we emphatically state, as we have heretofore in the notice which heads this department, that it is not our intention to "sound the trumpet" for mining companies, prospecting agents, or mining officials, without they merit the same and we are assured of the fact; but, so far as our power of perception and acting goes, we desire to become the guide and adviser to shareholders, whether actual or for a time in "embryo;" to bring together as much good and sound material as we can collect, for the judgment and use of sensible and prudent people; and to warn the minds of the unreflecting and excitable against the design of plotting knaves.

Stock Exchange.—This new "stock board" will commence operations on or about the 1st of February. We are informed that over two hundred have already become members, and that the prospects of this exceedingly hazardous undertaking now looks favorable. It is the intention of the Superintendent, Mr. Thomas Wallace, to inaugurate the opening with a champagne lunch, when a larger attendance may be expected, without a doubt, (if never afterwards). However, with careful management, we would not be surprised if the new open-board system should prove popular and profitable to its enterprising projectors.

Pacific Board of Brokers.—Upon invitation, we visited the rooms of the above Board, which are located on Washington street, near Montgomery, (opposite to where the old Board formerly held their meetings), and we must candidly admit that we were very much surprised to find such a fine room and so beautifully finished, containing as it does every requisite to make the members comfortable. Their roll is now full, having completed their number a few days since. They now number one hundred and fifty members, among whom we noticed many members of the first Board, and a large share of our leading and influential merchants and brokers. The officers of the Board are: W. P. Deuckla, President; W. P. Dewey, Vice President; and James H. Gager, Secretary.

Copper.—In front of Henry Schmiedell's office, No. 705 Montgomery street, there has been on exhibition during the past week a beautiful specimen of copper, weighing 150 pounds, and assaying over 70 per cent. copper. There are, we learn, several hundred sacks in port, brought here upon the ship General Jessup, which will average 60 per cent. copper, to say nothing of the silver it contains. It was taken from the Mountaineer copper mines, located at William's Fork District, Arizona Territory, 50 miles from La Paz, and only half a mile from the Colorado river. This copper ore, if shipped to England, would realize, at the least calculation, from $250 to $300 per ton.

Information Wanted.—Why is it, one would most respectfully ask that the tunnel of the Challar G. & S. M. C. is closed up (if we have been correctly informed) to visitors? Is it on account of its vast richness, and thus, they do not desire outsiders to discover it too quick, or, has this once famous mine given out and has this been the cause for the depression in the stock market of late? We pause for a reply.

Fashionable Mining Item.—On the evening of the 28th inst., a certain very exteasive holder in the Ophir Mining Co. gave away his amiable daughter to a well-known physician of this city. The wedding and reception took place at their magnificent residence on Folsom street, and was largely attended by the representatives of Gould & Curry, Savage, Ophir, and other leading mines; the *creme de la creme* of our fashionable society were also present. We poor editors may justly exclaim, "Oh! for (Ophir) a home in some vast wilderness"—of a similar nature.

Burning Moscow G. and S. M. Co.—This company, we learn, held a *private* meeting of its Trustees on Wednesday morning, Jan. 27th. Among other things that were brought before the meeting, was the importance of a reduction in the expenses of the company. The other plans that were adopted we withold for the present; however we will say that if carried out it will place this favorite company back again in its old position among the leading $300 or $400 stocks. We predict another excitement in this stock ere long.

Real del Monte.—As there are so many reasons assigned for the fluctuations in this stock, we, with pleasure, especially to those interested, lay before our readers the following statement, which we consider as *reliable*. It comes from a gentleman who arrived here a few days ago, and who has not the value of one dollar's investment in the stock. He says that the Real del Monte Co. have over 2,000 tons of exceedingly rich rock already out; they are down 140 feet, on an incline ledge, and the deeper they go the richer the rock becomes. All the mills in the vicinity are working night and day on this rock, and everything looks very favorable. He attributes the fall of the stock simply to the bulling and bearing system of our brokers, and further remarks that, when all the rock they have out is crushed, it will cause a rise in the stock, and place it in its right position before the public.

Shame! Shame!!—Professor Whitney gave a lecture on Thursday evening, January 29th, the subject was "Mining, in its Relation to Progress and Civilization." The lecture was one of the Professor's most brilliant efforts, and we were sorry to see such a limited attendance present. To think, that in a mining community like ours, that a deeper interest is not felt, only illustrates to us the sequel, why so many people are constantly being "duped" by "wild cat" schemes. If the country would only enter more fully into the theory of mining, there would not be one half the cause of complaint which we are constantly hearing about "promising mines."

"***" We acknowledge the recipt of a very interesting letter from our correspondent in Esmeralda—which we will publish in our next issue. We are compelled to defer it on account of the pressure on our columns this week.

Washoe Stock and Exchange Board.

Virginia District.—We quote since our last issue: Burning Moscow, $105 bid; 118 asked. Birdsall, 16 bid; 22 asked. Bajazette and Era, 25 bid; 40 asked. El Dorado, 30 bid; 55 asked. Iowa, 100 asked. Kenosha, 6 asked. Milton sold at 35. Moss, 12.50 bid. Osceola, 5 bid; 15 asked. Orleans Flat, 8 bid. Spanish No. 2, 50 asked. Seneca, 10 bid; 15 asked. Sutro sold at 4.75. Sierra Nevada, $90 asked. Utah, 150 asked. Virginia Express, 150 bid. Phœnix, 15 asked. Sacramento and Meredith, 70 asked. Allea. 40 asked. Belvidere, 4 bid; 10 asked. Virginia Hill, 4 asked. Marlette, 5 bid; 5 asked. Mount Davidson, 8 asked. New Orleans, 8 asked. Pride of Washoe, 7 asked. Cincinnati, 12 asked. Lacross, 30 asked. Oakland, 5 asked. Poorman, 100 asked. Pioneer, 8 asked. Savage, 3,100 bid. Beach & Paxtoa, 70 bid; 120 asked. Cedar Hill tunnel, 2 bid; 8 asked. Honduras, 12 asked. United States, 4 asked.

Gold Hill District.—Alpha, $900 bid; 1,050 asked. Belcher, 1,250 asked. Bullion, 56 bid; 72 asked. Baltic, 1 foot sold at 160 and 4 feet at 164. Bell Vernon, 8 asked. Crœsus, 3 feet sold at 60. Cherokee, 2 bid; 4 asked. Crescent, 3 bid; 7 asked. Cincinnati, 4 bid, Crowa Point Ravine, 10 feet sold at 15. Coppers, 5 bid. Diligeat, 3 bid. Frankell, 2 bid. Goldeu Swaa, 25 bid; 40 asked. Goldea Horn, 20 feet sold at 7. Gilmore, 6 bid; 18 asked. Globe, 8.50 bid; 14 asked. Golden City, 100 feet sold at 4. Golden State, 3 bid; 10 asked. Original Hawkeye, 43 bid; 50 asked. Justice, 85 bid; 130 asked. John A. Logaa, 5.50 bid; 20 asked. Jenny Liad, 6 bid; 22 asked. Keatucky, 4 bid; 7.50 asked. Knickerbocker, 5 feet sold at 27.50. Leon, 20 asked. Louisville, 4 bid; 25 asked. Mary Aan, 60 bid; 80 asked. North American, 85 bid; 100 asked. New Orleans, 5 feet sold at 15. Napoleon, 100 feet sold at 11. Nevada, 16 bid; 20 asked. Oaeoto, 20 asked. Pontiac, 5 bid; 10 asked. Rock Island, 10 feet sold at 15.50. South Americaa, 20 bid—buyer 30 days. Tontine, 18 bid; 25 asked. United American, 20 feet sold at 8.50. Vesuvius, 5 bid; 10 asked. Victor Hugo No. 2, 10 asked. Vulcan, 100 feet sold at 3.50. South Midas, 2 bid. Sam Patch, 15 asked. Grizzly, 15 feet sold at 5. Silver Veil, 3.50 bid. Christo Consolidated, 4 bid; 20 asked. Miantonoma, 6 bid. Uncle Sam, Senior, 12.50 bid. Pilot, 10 asked. Victor Hugo, 5 bid. Arizoaa, 15 asked. Baltimore-American, 36 bid. Caledonia Tunael, 38 asked. Colorado, 5 bid. Excelsior, 15 bid. Grant, 5 asked, Hawkeye, 20 bid; 35 asked. Jewett & Sheppard, 8 asked. Keystone, 16 bid; 35 asked. Michigan, 45 asked. New Oregon, 13 bid; 15 asked. Narragaaset, 15 asked. Robinson, 20 asked. San Josè, 5 asked. Silver Bar, 10 asked. Uncle Sam, 520 bid; 600 asked. Union, 13 bid; 13 asked. United American, 2.50 bid. Wall Street, 20 bid. Combined Effort, 3 bid; 30 asked. Consolidated Company, 15 bid; 40 asked. Jackson, 10 bid. Republic, 15 asked. Orizaba, 20 asked. Eddy, 10 bid. Overman, 550 asked —seller 4 days. Princess, 1.50 bid; 15 asked. Stevenson Kehoe, 5 bid; 7 asked, Sweezy, 4 bid. Yellow Jacket, 950 asked. Abel & Key, 10 asked. Sandy Bowers. 12 asked. Lamott, 8 asked. Empress, 10 asked. Malakoff, 8 asked. La Plata Oro, 3 bid. Cuba, 2 bid. Lee, 2 bid. Pride of America, 15 asked. Scbiller, 27.50 asked. Woolsey, 10 asked. Argo, 18 asked. Mayflower, 10 asked. Nevada Consolidated, 8 asked.

Devil's Gate Distrıct.—Hawley, $25 asked. Pride of the West, 97.50 bid. Pioneer, 25 asked. Kossuth, 10 asked. Yucatan, 10 asked. Sebastopol, 4 bid.

Flowery District.—Adriatic, $6 asked. Atwill, 10 asked. Cherokee, 1 bid. Capitola, 15 asked. Desert, 16 bid. Lady Bryan, 51 bid; 75 asked. Uncle Sam, 3.50 bid; 6 asked. Harrison, 5 asked. Interuatioaal, 6 bid. Flowery tunnel, 5 asked. Utah, 2 bid.

Argentine Distrıct.—North Ophir, $8 asked. Shelton, 7 bid; 8 asked,

Palmyra District.—Jackson, 5 bid.

Humaoldt.—Sheba, $120 bid; 180 asked. Cuba, 4 asked.

Reese River.—Gentry, $5 asked.

SALES OF THE WEEK.

Virginia District.—13 shares Milton at $35. 10 shares Sutro at 4.75. 10 shares Marlette at 5. 10 shares Sutro at 3.75. 10 shares North Ophir at 8.

Gold Hill District.—1 share Baltic at $160; 4 shares ditto at 164. 3 shares Crœsus at 60. 10 shares Crown Point Ravine at 15. 20 shares Golden Horn at 7. 100 shares Golden City at 4. 5 shares Knickerbocker at 27.50. 5 shares New Oregon at 15. 100 shares Napoleon at 11. 10 shares Rock Island at 15. 20 shares United American at 8.50. 100 shares Vulcan at 3.50. 15 shares Grizzly at 5. 50 shares Goldea Horn at 7.50. 25 shares Napoleon at 7, 20 shares Oneoto at 15. 35 shares Rock Island at 15. 10 shares Tontine at 16. 13 shares Union at 13, 20 shares Cherokee at 3. 5 shares Justice at 100. 12 shares Rock Isand at 12.

Flowery Distrıct—10 shares Yankee Jims at $1.

Washoe Stock Board—Special Election.—The office of President of the Washoe Stock and Exchange Board having been left vacant by the resignation of R. M. Daggett, R. W. Billet, the former Vice President, was elected in his stead, and W. O. Smith, who has been acting as Secretary for some time in the absence of Mr. John McCarty, was elected Vice President, to fill the vacancy left by Mr. Billet. Mr. McCarty, the regular Secretary, having returned from this city, has again entered upon the duties of his office.

[Written for the Mining and Scientific Press.]

Humboldt County--Nevada Territory.

The daily journals of this city are devoting a good deal of attention to the mines in Humboldt county, Nevada Territory. That so little concerning them has been published heretofore, is due simply to the fact that the inhabitants of Humboldt are not a letter-writing people, and that the expense of sending "special correspondents" to that region is very great—even if reports, based upon such superficial examinations as they would be enabled to make, could be relied upon. It is very common for practical miners to underrate their own capacity to write for newspapers. Men who are fluent and accurate in private correspondence, have a morbid fear of making themselves ridiculous in print. Of course this is extremely absurd, and also injurious, as it tends to retard the development of some of the best of our mining districts. The character of the early population of a mineral region is, as things go in these days, merely a matter of accident. Reese River happened to be settled to a great extent by men from San Francisco, acting, generally, as the agents of capitalists, who not only possessed money and energy, but combination and influence—and, consequently, the world knows all about Reese River. Humboldt happened to be settled by persons from the upper counties of the State—intelligent and energetic enough, but operating for themselves, with little money, and without concert of action—and, consequently, an almost Egyptian darkness has reigned over Humboldt. So profound has been the ignorance concerning it, that respectable men, whose notes are good in the market, and who are doubling their fortunes by stock investments, have to scratch their heads two or three times before they remember that hundreds of miles of mountain and plain separate Humboldt county in Nevada Territory from the county of the same name in California.

We would not have been so profuse on this point, but for our anxiety to stimulate the inhabitants of Humboldt themselves to distribute the facts about their mines. Their local paper must necessarily depend, to a great extent, for its interest upon their contributions, and on the western slope of the Sierra Nevada, we have to rely upon them altogether. We will gladly make the Mining and Scientific Press the medium of circulating any information which may be supplied to us under the authority of any honest man's name.

Facts are not only "stubborn things," but they have an element of active life in them, which cannot always be repressed even by the dead-weight of intellectual inactivity. This is the fortunate circumstance to which Humboldt is indebted for the present direction of public attention to its resources and to its wants. That county extends for about two hundred miles from its north-western to its south-eastern extremities, and for an equal distance from its extreme north-eastern point to its south-western termination. It contains nearly 30 mineral districts, and a multitude of large, well-defined veins, rich in all the various forms of silver ore, and, with two or three exceptions, displaying the simplest and most tractable combinations. It possesses a population of about thirty-five hundred, mostly concentrated to the south and east of the Humboldt river, within a longitudinal limit of thirty miles, on two mountain ranges running in a general way north and south, and the northern ends of which terminate within a few miles of the river. On these ranges there is a considerable growth of stunted cedar and nut pine, sufficient, on the eastern range, to last for steam purposes for ten or fifteen years. Star creek and Buena Vista creek furnish water power, and the Humboldt canal, sixty-six miles in its projected length, of an average width of fifteen feet, and from two to four feet deep, of which more than ten miles are already completed, and which will be finished this year, will supply 45 quartz and grist mills with the means of crushing rock and grinding grain. The mountain cañons, the banks of the river, and the verdurous soil in Pueblo District, now produce the finest of vegetables, and will soon yield a large part of the cereals required for consumption in Humboldt and at Reese River, while the sides of the hills are covered with the most nutritious grasses. The taxable property of the county was assessed last year at more than half a million of dollars, and it will be remembered that the assessment was necessarily imperfect, and that nothing but "improvements" are liable to taxation. In the west range there are three towns—Unionville, Star City and Humboldt City—having an aggregate population of about one thousand, and in the east range, on one of the easiest of mountain passes, is the town of Dunglen, the result of a few months' development, and containing about 200 inhabitants. Buildings are large and substantial; stores filled to the roofs; there are school-houses and places of public worship, and society is as regularly organized as in the mining towns of California. There are two small mills in the west range and one in the east range; and from Fall's mill, in Unionville, especially, many bars of silver, representing many mines in the various surrounding districts in both ranges, have been received here during the last few months—the yield of ore—mostly from near the surface—varying from $125 to $400 to the ton. Work is going on now briskly and systematically in every direction.

This is a brief general statement of what Humboldt is, ascertained by personal residence and investigation. But that region can show something more than mere surface developments. The lode recently uncovered in the tunnel of the Tullulah Mining Company, three hundred feet from its mouth, and two hundred from the surface of the ground, is probably the best defined, the deepest, and the richest vein of mineral ever discovered in any of the outlying districts in Nevada Territory, and establishes beyond question the permanence and the value of the mines in Sierra district. The Neptune Hill, about two miles from Dunglen, on which the claim of that company is situated, is covered with rich croppings and float rock, traceable for a long distance through the extensions, and the fact may now be regarded as settled that, in its depths, are enormous masses of mineral which will yield more than two hundred dollars to the ton. We have spoken thus of the Tallulah because it is a representative mine, but Sierra district is full of mines, and possesses rare facilities for working them. The Auld Lang Syne, the Gem of the Sierra and its Oro Fino neighbor, the Natchez, the Great Western, the Humboldt, the Eclipse, the Independence, owned by the Great Basin Mining Company, the Maremne, the Champion, the Mourne, the Valley, the Badger, the Atlantic, the Pluton, and numerous other ledges, are each worthy of a minute description, but our space is limited and we must content ourselves with this general reference. Wood, worth in Virginia sixteen dollars per cord, is delivered at the Auld Lang Syne Mill at six dollars and a half per cord, and no ores in Sierra will have to be transported more than from eight to ten miles for reduction—generally too on a descending grade. The Tallulah claim is within three or four miles, at the farthest, of the Humboldt canal.

The Sheba mine, near Star City, contains antimony, bismuth and zinc in considerable quantities, and, in this respect, is a singular exception among the Humboldt mines—but, as some one has well said, it is "rich beyond the dreams of avarice." Systematically opened and admirably managed, displaying a great breadth of mineral, and in the best possible condition for extensive operations, nothing but the perversity of unscrupulous speculators can prevent it from being ranked with the most favored mines at Virginia. Speaking of this range, we may observe that a tunnel, eight feet square is being run from Humboldt City through Star Mountain, a distance of more than two miles, which is expected to tap forty-seven ledges, some of them at a depth of over two thousand feet.

In Buena Vista district, the Manitowoc, the Logan, the Anderson, the Monitor, and numerous other veins, deserve attention, and we could wish to describe minutely, the Moonlight in Indian district, the Great Republic in Cinnabar district, the D. C. Broderick, Chloride, Medora, Scottish Chief, Rattlesnake and St. Mary's in Echo district, the Cuba in Humboldt district, and the Little Giant and Magna Charta in Santa Clara District, but time and space will not permit, and we must trust to future opportunities, and to the intelligent co-operation of the people of Humboldt. We hope sufficient has been said to show that, as a field for enterprise and labor, that region is not inferior to any county east or west of the Sierra Nevada. The preparations which are in progress to establish additional stage lines, and to secure telegraphic communication with California indicate, at all events, that those who have the best opportunity of judging correctly, anticipate a large immigration to Humboldt this Spring. Syphon.

Advertisements for the Press should be handed in during the first of the week.

[For the Mining and Scientific Press.]

Importance to the California Miner of a Knowledge of Mineralogy.

Upon an inquiry into the infinite variety of objects surrounding us in the natural world, it would appear that three assemblages are to be discriminated. These divisions comprise the mineral kingdom and the vegetable kingdoms, characterized by organic structure and the wonderous phenomena of life. The inorganic or mineral kingdom in which we cannot detect any traces of organic structure, but which, nevertheless, forms the greater proportion of our planet—this assemblage of objects has been generally understood to form the province of Mineralogy.

Mineralogy has for its objects the consideration of the natural inorganic material of our globe, fluid and solid—the physical phenomena which they present, their chemical constitution, their modes of occurrence, the methods by which they are distinguishable from each other, their classification, and the uses to which they may be made subservient.

The character of minerals is dependent partly on their form, partly on their chemical, and partly on their physical properties.

It is important to insist on the definition and objects of mineralogy; as many scientific men assert that it is a mere department of chemistry, besides it is frequently confounded with geology or metallurgy.

A miner may be a good chemist but it would not make amends for an ignorance of mineralogy. If he were obliged to make an analysis each time he required to know the nature of a substance, it would occupy most of his time in labors often repeated, and in many cases fruitless. If after analyzing the same substance twice he is able to recognize it by some less laborious task, we say that he has acquired a mineralogical knowledge of that substance. So that the methods of mineralogy are those which a man must employ, if in relation to the natural inorganic bodies he wishes to reap the advantages offered him by previous investigations. Who, for instance, would not prefer to determine the nature of a brilliant gem by the method of mineralogy, instead of submitting it to the chemist, who, with sundry acids, would destroy its substance ere he could pronounce upon its character.

When visiting the celebrated Diamond washings, at Abaite, Brazil, the writer was shown the fragments of what had been a diamond of great value, but which the finder, in a rude attempt to prove its hardness, had struck with a hammer, and broken into numberless small pieces; his want of mineralogical knowledge lost him an immense fortune.

The grand interest attached to our studies of the products of the earth is to be found in the fact that the mineral properties of different lands, in conjunction with geographical features, have determined the distribution, the physical and social character, and the well being of the various races of man. Whether we examine the vestiges left by the people of antiquity, or study the modifications produced in branches of the same race, located in regions of different aspect, or inquire into the origin of the chief seats of modern civilization, we shall be assured that most of these phenomena are dependent immediately, or through the medium of vegetation, on mineral produce, and the particular conditions under which it can be made available to human convenience. *

Steamers for the East.—The steamship America, of the Opposition Line, and the St. Louis, of the P. M. S. S. Company will leave for Panama on the 3d of February next, and the competition between the lines promises to be lively in the meantime. The prices of the tickets by the *America* are as follows: First cabin, upper deck, after saloon, state rooms, $175: do. do., forward saloon, $135; second cabin state rooms, $100; do. do., open berths, $80; steerage, $50. By the *St. Louis:* First cabin, outside state-rooms, $162.50; do. inside state-rooms, $136; second cabin, $80; Steerage, $54.

[For the Mining and Scientific Press.]

THE MINERS' LABORATORY.

Assaying Copper Ores.

It is of great importance that every copper prospector should be acquainted with the best method for ascertaining the percentage of copper, in copper ores. Indeed it is our impression that every copper mine should be provided with a small laboratory for testing their ores, particularly when we know that such a laboratory could be fitted up at a cost not exceeding $200, with a further expense of only about 50 cents upon each assay for chemicals, etc. By following this, companies would save themselves much anxiety about their minerals, instead of having a hypothetical value for the time being. So soon as a mineral is discovered they would he able to ascertain its value, instead of nursing it in their pockets, talking about its merits, of which they know nothing, until at last they actually believe it to be extraordinarily rich; and when they come to San Francisco it is tested perhaps by some of our assayers and a return made of "no copper," or perhaps only a slight trace of one or two per cent. At this they are greatly disapointed; the assayer must surely have committed a blunder, and ere they are satisfied, perhaps the rock will have to traveled the whole round of our offices. All this will cost a considerable sum.

We will now describe the apparatus necesary:—First, a small balance that will carry about 500 grains in each pan, and turn distinctly with one-fiftieth part of a grain. Six small flat bottomed glass flasks, to hold from four to six ounces; two nests of beakers, the largest to hold about six ounces; six four-ounce glass funnels; a filtering stand to hold about four filters at a time; six half-ounce glass porcelain crucibles; two glass wash bottles to wash filterers and precipitates; a package of filtering paper; an iron pestle and mortar; a sieve about 100 holes to the inch; a common stove to boil your solutions upon; a bottle of hydrocloric acid; a bottle of nitric acid and several strips of good sheet iron, cut up into small pieces about one inch square.

HOW TO ASSAY SULPHURETS OF COPPER NOT CONTAINING ARSENIC, ANTIMONY, MERCURY OR BISMUTH.

We will now suppose a miner has a copper ore for assay. In the first place pulverize the ore; roughly at first, if the sample he large; after so doing, mix it well; spread it on a clean floor, take a little from all parts, mix well what you so obtain, and pulverize very fine, so that the whole will pass through your sieve of the fineness above described; mix well again, spread on a paper and weigh out very carefully in your balance, 25 grains of the ore, taking a little, to make up your weight, from different parts of your fine ore. Place the weighed ore carefully in one of your small glass bottles; add to it about one-quarter of an ounce of nitric acid, and then a few drops of hydrochloric acid; place your flask on your stove; it would be better if you would cover your stove with about one-half inch depth of fine sand, and place the bottle on this, keeping up a slow and steady fire. Allow your bottle containing the sifted ore and the acid to remain on the stove, boiling slowly, until you perceive small yellow globules swimming on the surface of the liquid. Should you observe that the solution is nearly evaporated, before the yellow globules appear, add a few drops more of nitric acid. Evaporate to dryness, heat the dried mass slowly, and allow to cool very gradually. Remove your flask from the stove; allow it to cool perfectly; then add a few drops of hydrochlorie acid; just sufficient to moisten the whole; allow it to stand for about one-half hour; then add a few more drops of hydroebloric acid, heat slowly; add hot water to the amount of two ounces; remove the bottle and liquid from the stove, and filter the solution; add hot water, in small portions at a time, on your filter, after the copper solution has gone through, until neither the water will taste acid; nor the paper in the funnel. After having done this take one of the strips of sheet iron and clean the same with a file or sand paper until it is perfectly bright; when this is done place the bright strip of iron in your filtered copper solution; then place the whole on the sand, on your stove; heat gently but not to boiling. The copper will by this method deposit itself in the shape of metallic copper on the iron, but may easily be removed. When your liquid appears almost white, take a bright piece of iron with your fingers and dip one end of it in the solution; if it does not become colored to the slightest extent with copper, the whole of that metal has been precipitated. If such is the case remove the beaker containing the copper from the stove; mix your solution with a small feather—a feather from the wing of a duck. Any copper that may adhere to the iron must be removed by means of the feather. Allow the liquid to stand for a few moments, tap the glass slightly against the table, in order to collect all the copper into one part of the glass; decant the liqnid now from the metallic copper; add more hot water, shake up by means of your feather; allow precipitate to subside; then pour off water again; continue adding water and decant until the water will not taste acid; when this is done remove your copper by means of your wash bottle to one of the small porcelain crucibles. Allow the copper time to subside; pour off the water, and dry the copper; then cut a hole in the lid of your teakettle, as a convenient way, say one inch in diameter, place the crucible containing the copper in this hole; boil the beaker in the teakettle, and the steam thus generated will dry your metallic copper. It is important, bear in mind, that you should not beat this precipitated metallic copper above the boiling point of water, if you do your result will not be accurate. When you think it is dry, remove the crucible and allow it to remain at rest in a hot place for a few moments, but not in a hotter place than the boiling point of water. The object of this last drying is to remove any condensed steam that may remain on your crucible. After drying this, weigh the crucible and metallic copper together; note the weight, place the crucible again as at first, on the teakettle and keep it boiling for a few moments; remove the crucible as before, and dry it; reweigh; if it weighs the same as at first, all right; if not dry again, and so on until you obtain two weighings precisely the same. When you obtain this, throw your copper away and weigh the crucible; deduct the weight of the crucible from that of the crucible and metallic copper, and multiply the remainder by four, and the product will he the percentage of copper, in the ore examined.

Take, for example 25 grains of ore:—

Weight of crucible and substance	486.42 grains.
Weight of crucible alone	480.22 "
Weight of metallic copper	6,20 "

Thus you have 6.20 grains of copper in 25 grains of ore. Then to obtain the percentage:—

25 : 100 :: 6.20 : 24.80 per cent. copper,
or, 6.20 x 4 = 24.80 per cent. copper.

When carbonate or oxide of copper, not containing any sulphurets of copper, has to be assayed for copper, the process is a little simpler. We pulverize the ore as at first; but instead of using nitric and hydrochloric acid, we simply use hydrochloric. Keep the ore at a boiling point; dilute, when all action has ceased, with hot water, and filter, without evaporation, and precipitate as before by means of a bright piece of iron. With the exception of the above operation, the whole is done precisely as the method already discribed.

We shall in future numbers give the method to be employed for assaying all the various descriptions of copper and silver ores. *

Oregon Iron.—The editor of the Oregon *Democrat* has been shown two butcher knives, made by Albany blacksmiths, from the ore of the Tualatin iron mines. Iron is said to exist in that locality in abundance. A forge has been erected, and is now in operation, and the construction of a rolling mill and other machinery for the manufacture of iron from the ore, is in contemplation.

A Reese River Mansion.

Dear reader, if you are the owner of numerous feet in the rich land of silver, be not startled by the above caption, through fear that some lucky wight has stolen the march, and reared, previous to you, a substantial castle upon some of the magnificent "Hights of San Francisco," but read with candor of the sublime abode occupied by one of the best and happiest of God's noblemen—an ex-typo and practical operator in Reese River mines. The extract here given is from a private letter, and was never intended to meet the "vulgar gaze" of the public:—"I went to work putting up a country residence for myself, in which I am now living, as happy and independent as an Irish lord. The style of architecture adopted is a sort of cross between the Arabic and Hibernian—the roof being formed from a tent, and the walls being made by digging a hole in the banks and leaving the sides three or four feet high, on the top of which partial walls have been laid with stones, capped with logs, to which the canvas is nailed. The rear wall is nothing but a bank of earth, and the front of the house is formed of poles, standing on end and sunk into the ground about a foot. The furniture is luxurious, and as my dining-room, kitchen, parlor, library and bed-room are all furnished alike, a description of one will answer for all. The door, facing the east, is closed by a hanging blanket. As you enter the door, to your right is my couch, spread with Oriental magnificence, composed of four uprights, four horizontal pieces, two large gunny sacks, a mattrass composed of a donkey's breakfast, two pair of heavy Mission blankets, and a pair and a half of lighter ones. In the corner, beyond the bed, stands a sack of sugar, and a large box containing sundry articles of food. South of these and ranged against the wall, stands the water bucket, tea-pot, coffee kettle, pots, etc. and in the south-west corner stands my stove—used alternately for cooking and warming. Strung up over head are hams and bacon, and under the couch are flour, beans, *etc.*, in profusion.

The "New Chemical Agent in Warfare."

An item has been going the rounds of the papers for some weeks to the effect that an English chemist proposes to carry up in balloons, a quantity of "chloride of nitrogen" and drop the same into an enemy's city or camp. So powerful is this terrible compound that two or three carboys of it dropped into a city or fortress, it is thought, would completely destroy the same, its inhabitants as well as its defences. Even if such terrible destruction should result, of which there are, at least, grave doubts, it may not have occurred to the ingenious projector that to carry out his project would require the absolute sacrifice of each individual aeronaut connected with the enterprise. A detonation sufficient to accomplish such a sudden and wide spread ruin, would prove sure destruction to the frail aerial vessel and its occupants.

An ordinary four or six pounder even, discharged at any point nearly over which a balloon is passing, produces a most fearful effect upon the machine. We recollect well, some twenty-five years ago, when ballooning was first attempted from Boston Common, that on the first ascension a complimentary salute was fired from a couple of four pounders. On the second ascent it was especially requested that the salute should be dispensed with, in consequence of the extremely unpleasant, if not dangerous effects produced by the detonation. If danger was apprehended from such a slight concussion, what must be expected from an explosion so terrific as to destroy an entire city? Perhaps, however, patriots could be found who would be willing to sacrifice themselves for so important an advantage to their country. Men can be readily found who will rush eagerly upon a battery when the chances of escape are not more than one in twenty or thirty, but few, we apprehend, can be found who would walk deliberately and without the excitement of battle or "the charge" to meet an inevitable death, and that so terrible as would attend the catastrophe we are supposing.

Copper-Coating Boiler and Other Iron Plates.

It is well known that much difficulty in the wear of steam boilers arises from a rapid corrosion of the plates in the immediate locality of the seams and rivets. An English mechanic recently took out a patent for protecting iron boiler plates at the exposed points by covering them with plates of copper. On subjecting his invention to a practical trial, the remedy was found to be worse than the disease, inasmuch as a galvanic action was engendered, of such power as to render the plates worthless in a much shorter time than would be the case if the same boiler was made in the ordinary way.

A similar trouble has been encountered in employing copper in connection with iron-plated ships; and the same difficulty with regard to corrosion at the joints, is also found to obtain in our iron-clads. A proposition has been suggested to obviate this difficulty in the case of iron-plated ships, by coating them with copper, after the following manner, which experience has shown to be perfectly feasible: A quantity of copper is melted in a suitable furnace. The plates to be coated are first heated to about a white heat, in another furnace, and in that condition gently dipped into the molten copper, as in a bath, and partially submerged. They are sufferred to remain thus for a sufficient length of time to allow the particles of copper to become, to a certain extent, infused into the surface of the iron plate, upon which it readily forms a thin coating of copper. When the entire exposed surface is thus covered, no galvanic action can take place. Experiments of this description have also been made in this city with boiler iron, designed to be employed in the construction of steam boilers, with but partial success, however. Similar experiments may have been made in other places, and perhaps with better success. In the experiments here, it was found that the plates were unequally affected by the copper. Some entire plates, and portions only of others, were so completely penetrated by the copper as to form with it an amalgam, of much less tenacity than either metal in a separate state. In fact, the plates thus prepared were mostly rendered unfit for use. This difficulty probably arose from the inequality of heat to which the iron plates were subjected. There can be but little doubt but that boiler iron could be so manipulated, in this process, as to greatly improve its durability.

A better way, however, to apply this copper coating will undoubtedly be found in the process of electrotyping, which, under recent improvements, is being carried on upon a very large scale, and at greatly reduced prices. So perfectly and firmly may iron be plated with copper in this manner, that large iron bolts, for ship and other fastenings, are now being thus covered at a cheaper rate than the entire bolt can be made of copper. An additioonal advantage is thereby given in strength, while in durability the copper-plated bolt is found to be fully equal to a similar one manufactured entirely of that material. No difficulty is encountered in driving such bolts.

The process of electrotyping is employed on a gigantic scale in Paris. The lamp posts of that city are now being covered with copper by this process; also some of the large fountains of that metropolis. A full-sized duplicate of Trajan's column at Rome has also recently been subjected to this process. Of course objects of such vast proportions are electrotyped in sections. The process of electrotyping will doubtless soon employ a large amount of this metal, the production of which is becoming so important an item in the industrial pursuits of this State.

An important class of officers will probably soon grow out of the new Federal Liquor Law, which requires discriminating taxes upon adulterated spirits. Persons scientifically skilled in the combination and adulterations of liquors, will doubtless have an eye to such positions.

The Mining and Scientific Press Patent Agency,

OFFICE, 57, GOVERNMENT HOUSE, SAN FRANCISCO.

Information About Obtaining Patents.

The Patent Law Amendment Act, of March 4th 1861, and March 3d 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor; *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent? A positive answer to this question is only to be had by presenting a formal application for patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the Mining and Scientific Press. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Preliminary Examinations.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search, made at the U. S. Patent Office, Washington, through the medium of our associate in that city, to ascertain whether among all the patents and models there stored, any invention can be found which is similar in character to that of the applicant. On the completion of this special search we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollars. This search, though it involves the expense just named, will usually prove satisfactory. If the same device has been before patented, the time and expense of constructing models, preparing documents, etc., will in most cases be saved; if the invention has been in part patented, the applicant will be enable to modify his claims and expectations accordingly. Many other obvious advantages attending the Preliminary Examination; although the strictest search does not always enable the applicant to know positively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publication; or some other person has been previously rejected on an analagous device; or some other invention for a similar purpose, but partially resembles the applicant's in its construction; or the Government makes an unjust or uncommon decision. Against none of these contingencies does the Preliminary Examination provide; it will, however, generally inform the applicant whether an improvement similar to his and used for the same purpose has ever been patented or not in this country.

Persons desiring the Preliminary examination are requested to remit the fee ($10), and furnish us with a sketch and description of the invention.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian, Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of governments that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues.—If the application is rejected we cause a thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have excess to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client. For this service we make no charge. If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction, and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The laws requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: Dewey & Co., Mining and Scientific Press, rooms 56 and 57, Government House, corner of Sansome and Washington Streets, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail.—The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due, and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued, the applicant will be notified to remit the last installment of the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Return of Models.

Under the new law, if the applicants case has been rejected he is entitled to withdraw his model from the Patent Office.

This law applies to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expense.

Application for Patents, Designs, Trade-Marks, Labells, etc.

Under the new law patents may be taken out for any new form of any article, also for tools, patterns, castings, machine-frames, stove-plates, borders, fringes, all new designs for printing, weaving or stamping upon silks, calicoes, carpets, oil-cloth, prints, paper-hangings, and other articles. Trade-marks, labels, envelopes, boxes and bottles for goods, may also be patented; likewise all works of art, including prints, paintings, busts, statues, bas-relief, or compositions in alto, or basso relievo, new dies, impressions, ornaments to be placed upon any article of manufacture, architectural work, etc.

Our facilities for the prompt preparation and securing of patents are of the most extensive character and our charges are very moderate.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the tariff of fees established by law:

On every application for a design, for 3 years and six months	$10
On every application for a design, for seven years	15
On every application for a design, for fourteen years	30
On every caveat	10
On every application for a patent	15
On issuing each original patent	20
On filing a disclaimer	10
On every application for a re-issue	30
On every additional patent granted on a re-issue	30
On every application for an extension	50
On the grant of every extension	50
On appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, D. C.	25

Infringements.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunction from the Court, to an arrest of or prohibition from the employment of his machinery, shop, works, factory and men in production of the article.

In addition to injunction the infringer is liable to be mulched in treble the amount of damages awarded by the jury. The maker, the workman, the seller, and the purchaser, if a user, are all liable either collectively or individually.

Having access to all the patents, models, public records, drawings and other documents pertaining to the Patent Office, we are prepared to make examinations and give opinions upon all infringement questions, advise as to the scope and ground covered by patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Appeals.

In rejected and other cases, the new law provides for an appeal from the Examiner-in-chief to the Commissioner in person, on the payment of a fee of twenty dollars. A further appeal may be taken from the decision of the Commissioner to the U. S. Court, of the District of Columbia. These appeals are heard by any of the Judges before whom the applicant elects to bring the case. No Jury. All the papers, models, etc., are sent by the Commissioner to the Judge, who then reviews the case, and either sustains or reverses the Commissioner's decision.

The party taking the appeal pays an additional fee of twenty-five dollars. The Judge appoints a day of hearing. The applicant can appear in person or by counsel to state his case and file a written argument. Five days are allowed the opponent to put in an answer, and a similar period to the appelant for a closing reply.

Many important cases are brought before the Judges on appeal and the decisions of the Commissioner are not unfrequently reversed.

We have had successful experience in conducting these appeals, and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, Government House, corner Sansome and Washington streets, San Francisco.

Mining and Scientific Press.

W. B. EWER,.....Senior Editor.

C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

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Terms in Advance.—Having adopted the cash system, all payments for subscriptions must be made in advance. If old subscribers find their paper discontinued at any time, don't stop to grumble about it, but send in the cash for another year. "Equality is Justice," and we shall administer this doctrine to all our patrons, as well as "the rest of mankind."

San Francisco:
Saturday Morning, January 30, 1864.

MECHANISM—ANCIENT AND MODERN.

The most important achievements of modern mechanism consist mainly in improvements on ancient ideas. The earliest application of mechanism was no doubt directed to the production of clothing. When man was placed in the garden of Eden, his hunger was readily supplied with the products of Nature. We read that the Creator placed in the garden every fruit-bearing tree, which was to be food for man. The first pair were happy and content in their primeval home, until the wily serpent induced our common mother to partake of the forbidden fruit, which led the way to artificial wants.

Both revelation and history are silent as to the period when woven fabrics were first invented. Preliminary to the art of weaving, however, must have been the use of the spindle. Spinning was the first, or at least among the first-born of the arts. Eve must, in some manner, have spun her thread before she sewed together the leaves which formed the staple of her primitive garment. From that period to the present, and throughout all lands, spinning and weaving have been the peculiar province of the sex whose curiosity led to its necessity, and whose quickness of perception suggested the simplest and most convenient remedy for its error.

The distaff was undoubtedly almost or quite cotemporaneous, in its introduction, with the spindle. They both date far anterior to the historic period, and were common instruments in the ancient legends of the heroic and mythic epochs. Spinning lies at the very threshold of human industry and human culture. Queens were, in early days, taught to excel in it, and goddesses even were not ashamed to teach the art. Clotho, we are told, held the distaff, while Lachesis twirled the spindle and Atropos determined the length of the thread. Again, we read that Hercules was once playfully rapped over the head by Omphale, for awkwardness, while she was trying to teach the old fellow how to use the distaff. But few nations, even the most barbarous, have been in ignorance of these simple instruments. Wherever they are not found, man has ever been a traveling, homeless wanderer—a vagabond roamer in forest wilds. Home and its surroundings have ever been measured in their amenities by the progress which has been made in improvements in these two simple instruments of mechanism.

The spindle of to-day, and the manner of accumulating the thread upon it, is almost identical with that described by Homer, Horace and Pliny. It was "twirled," in ancient times, by nimble fingers, sometimes much as a boy would spin a top by the aid of his thumb and fore-finger; at others, by various simple devices, obtained by straight motions alone. The modern improvement is simply the application of a circular for a straight motion, which may readily be made continuous.

Rotary motion is mainly a modern device, and to it we are indebted for nearly all the elegancies and conveniencies of civilized life. Revolving mechanism is the substratum of the present advanced stage of arts, science and civilization. Without it, steam would be a nullity; the printing press would be but the *thing* it was a hundred years ago, and the busy hum of machinery would lapse into the forward and back, up and down motion of the flail, the hammer, or the ancient sliding sieve. The general application of rotary, in place of other movements, is the modern starting point, from which we may measure nearly all mechanical progress which has been made within the historic period. It is the epoch in the lapse of time which separates modern from ancient mechanism. From thence it is that useful ideas have begun to unfold and develop themselves in rapid progress. The newly-awakened genius of man, from that day to the present, has been moving on in a constantly increasing ratio, employing new combinations, moulding matter into new forms, detecting therein new properties, drawing therefrom novel and beneficial results, and extending and refining the realities, conveniences and elegancies of life, until we have now arrived at an age and hight of improvement, from which we look back upon past ages in wonder and astonishment at the progress which has been made, while we are absolutely bewildered when we consider the yet gigantic advances still in contemplation in every department of human progress!

Coal Oil—"A Warranty that is Safe to Bet On."

Mr. Editor;—Under the above caption the following item appears in a contemporary of yours this week:—

"Some of the coal oil dealers around town are securing customers by sticking up placards in their stores, assuring the public that their oil is non-explosive, and warranted entirely free from adulteration with camphene or alcohol."

This matter does not deserve to be disposed of quite so summarily. It has been the subject of legislation in most of the Eastern States, and an act of Parliament, in England, has been passed, to prevent the storing of dangerous petroleum in large cities. Benzine, or the volatile portion of crude petroleum, is a natural cause of explosion. Much ingenuity was applied in the States to obtain an instrument for determining readily when an oil had been sufficiently purified to be safe. The hydrometer is no security. I was engaged by the successful inventor in New York, last winter, to examine and report upon his method. I am informed that want of attention to this point prevented the introduction of California petroleum, some time since. Lamps suited for heavy, safe oils, burn with various defects with lighter oils. The increased cost of insurance for the latter has tended much to limit imported oils to a safe standard. The question is again becoming important with the new development of this industry at Santa Cruz. I. H. Churchill.

A Mining Advertiser.—This afternoon we shall issue a "Mining Advertiser," by placing the advertising pages of the Press, with the stock reports and other matter, into a smaller sheet, a very large edition of which will be circulated gratuitous throughout this city and the interior of California and Nevada Territory. We do this to give mining companies the benefit of an extraordinary large circulation for their advertisements, and present a channel through which all mining notices may be cheaply consolidated into one sheet for the convenient reference of all stockholders. Secretaries of companies will please hand in their favors as early in the week as possible—not later than Friday. Rates for advertising mining notices, $2 50 per square of ten lines, per month. Advertisements will appear both in the Press and Advertiser.

New Postmaster.—The telegraph of Wednesday announces that R. F. Perkins was confirmed as postmaster of this city, in place of Parker, removed, in executive session of the Senate, on Tuesday last.

Mr. Jas. P. Newcomb recently returned from Arizona, furnishes us some interesting matters form that section.

The College of California, located at Oakland, has recently added a new course of instruction, to be known as "The Mining and Agricultural College." This department, will, for the present, be under the especial charge of William P. Blake, Esq., as director and professor of mineralogy, geology and mining; and by Sherman Day, Esq., (Superintendent of the New Almaden Quicksilver mine) as professor of mine construction and surveying. Other branches, such as chemistry, astronomy, engineering, zoology, etc., remain to be filled. This department is to be located centrally in San Francisco, and instruction in its branches is to be given in part by lectures as much as possible in the evening. We presume its details will be furnished by future advertisement to the public.

The Laboren is worthy of his Hire.—We regret to see that Mr. Scott, of Almeda, has introduced a bill in the Legislature requiring legal advertisements to be given for one year to the paper in each county making the lowest bid. The effect of this proposition, if adopted, would, without doubt, be to give the public printing to the shabbiest sheet in each county, to those having the smallest circulation, and at such price as would render the contract a burden to a good printer able to properly fulfill his obligations. We believe in *fair* prices for all mechanics, and so direct an appeal to the mercenary meanness of the lowest members of a craft, appears to us entirely out of place in so honorable a body as our present Legislature, where first class mechanics would naturally look for encouragement.

East Lynne G. and S. M. Co.—This company is located at Owens river, Inyo District, Tulare county, and was discovered by a party of explorers, who left this city some six months ago. We have been shown exceedingly rich specimens of both gold and silver-bearing quartz from this mine, and from what we have been able to ascertain, everything appears very promising. It already stands high in the estimation of the public. They intend, shortly, to work it in a

In Favor of Consolidating.—Fisher, of the Red Bluff Beacon, in a friendly notice of the Pacific Monthly, shows evident signs in favor of consolidation. Can't come it by proxy, Fisher! Step aboard the *Gem* some day and come down, and as you are pretty good looking, we will give you an introduction, and, *perhaps*, a certificate of character, if you behave yourself in future. Bring your fishing tackle, old angler, when you come trouting.

The New Sugar Refinery on Battery street at at the corner of Union, is now completed, so far as the building is concerned. The institution will be known as the "Bay Sugar Refining Company." The capital stock is $250,000 divided into 1,000 shares of 250 each.

Treasure from the North.—The steamship Oregon arrived on Saturday last, from Victoria (V. I.), and Portland (O.), bringing $131,000 treasure.

Treasure going East.—The treasure shipments per Mail steamer Golden City, which sailed Saturday, were: to England, $1,038,266 33; to New York, $448,804 36; to Panama, $10,000; to Havana, $8,000, and to Acapulco, $1,964,67, making a total of $1,507,035 36.

For and Against.—In Virginia City and Flowery District, N. T., only 603 votes were cast for, to 3,645 against the Constitution—more than six to one. Gold Hill went five to one against it. A pretty decided demonstration.

The State Senate, on Thursday passed to engrossment an act repealing the Specific Contract bill of the last session, by a vote of 18 to 16.

Signs of the Times.—It is said that all "signs" fail in dry weather, but those recently painted for this office, by Fred Mansell, are declared not only decidedly handsome but exceptions to the above rule.

MINING SHARE MARKET.

The Mining Share Market still coatinues its unusual activity. Tho amount of transactions the past week foot np to the very largo aggregate of $1,972,807—a considerable excess over last week.

Ophir shares opened tho week at a decline of $50 which was stendily maintained until Thursday when they suddenly dropped to $1,550 and remained inactive on Friday. 594 shares have changed hnnds since our last issue. Mueh speculation exists with regard to the npproaehing dividend.

We quote Gould & Curry at $4,950.

Savage hns still farther improved and is much songht after. We quote closing sales at $3,375, buyer thirty days. This is an advaaee of $275 over last quotations. Indications at the minc still continue favorable, particularly in the lower level.

Chollar shares still continue to be largely dealt in, and at declining rates. We quote sales of 582 shares, nt from $285 @ $352 cash. We notiee a single transaction, on Saturday of 64 shares at $1,000, buyer sixty dnys. Mueh mystery appears to hang around the operations of this company. They are still sinking on their mine.

Lady Bryan still coatinues to be largely dealt in at a slight advance and without any material fluetuation. We quote sales of 2,083 shares at froai $55 @ $63.

Desert is inactive. We quote but one transaction of 15 shares, which found a buyer at $21.

Burning Moseow has manifested increased netivity daring the past week, but at declining rates, and with a marked falling off in interest during the last two days. Report says that the directors of this company are about maturing plans for its future management, which will greatly improve its stock. We quote sales to the extent of 598 shares at prices ranging from $102 @ $120. Aa assessment of $15 per share, levied upon this stock, the past week, has had the effect to produce the present depression, which will doubtless prove but momentary.

Baltimore American continues to be considerably enquired after, at well maintained rates. 420 shares found buyers at from $37 @ $46½

Eldorado hns beca more enqaired after the past week, nnd at improved rates. 185 shares have changed hands, at from $50 @ $56; fully $5 better than the week previous.

Melones h is still further advanced. It reached $75 ou Saturday last, at which rate 40 feet fouud purchasers. On Monday it receded to 55; recovered to 75 on Tuesday, and closed yesterday at 62½. We learn that the report of a rich strike, to which we gave credence last week, was without foundation. The present advance is the result of an improved management of the ores at the mine.

California shares found a purchaser for 60 shares, the past week, at $1,000—buyer 30 days.

Bullion, Gold Hill, has slightly declined. It may be quoted at $62@62½.

North American fully maintains its advance of last week, nnd in fact may be quoted at a slight improvement. 188 shares have changed hands at from $84@90.

North Potosi has manifested considerable activity the past week at an important advance. These shares opened the week at $38, remained steady until Wednesday, advanced to 65 at the openiag of the Board on Thursday; suddenly fell to 35 at the afternoon session, but recovered to 65 yesterday.

Mount Hope (Consolidated) has been considerably sought after, the past week. Commencing at $7 this stock gradually advanced to $10½ yesterday.

Uncle Sam, which last week declined to $500, has again rallied, and been in request, the past week, at from $600 to $635.

Uncle Sam (Flowery District), has found a market at $5.

Harmon, El Dorado coun.y, has more than maintained its advance of last week. We quote sales of 75 shares at from $24 @ $39.

Blue Ledge; we quote sales of 40 shares at $9¾ to $11; Pride of the West has been considerably dealt in nt $95 @ $105; Adriatic may be quoted at $11 @ $12½; Golden Swan has changed hands at $31; Norton at from $8 @ $10; Sierra Nevada at $80 @ $37½; but little enquired af er; Rhode Island at 7½; Shawmut has been considerably enquired after at $25 @ $30; Seneca has sold at $10; Baltic at from $167½ @ $180; Mount Davidson Tunnel $2 @ 2.87½; Mountain View, $9½; Gaudaloupe, $30; Victor Hugo, $20; Silver Eagle $10; Falls of Clyde, $2; Buckeye, $14; Chrystal, $4; Lady Adams, $2¼; Tri-Union, $6; Enterprise Tunnel $6; Badjazette, $5; Lafayette, (G. H.) $10½; Sedgwick, $2; Eureka, $32; Hawkeye (origiaal) $50; Cha's Cany, $10; Nevada, (J. G.) $85 @ $100.

Crockett, (Consolidated.) $15; Burnside, $17½ @ $19½; Imperial, $145 @ $167½; Yankee Blade 10 @ 15; Central American, 1¾.

North Ophir is enquired for nt from 5 @ 9: Daney, at 67½; Spanish, No. 2, at from 34 @ 47½; Yellow Jacket, 900.

Esmeralda.—But little is doing in Esmeralda shares, save in Real Del Monte, which still continues quite active, nt somewhat fluetuating rates. 1,599 shares of this stock has changed hands, since our last issue, nt from 130 @ 200.

We quote Wide West at 39 @ 42½; Antelope at 260; Willow Springs at 2; Utah at 22½; Coso at 5; Silver Hill, 15; Campton is considerably enquired after nt from $6 @ $9; Greenville $20.

Reese riven. Standard 30 @ 35; Burgess, 12½ Conqueror, 25 @ 26; Flora, 7; Tory, 48;

Calaveras Silver Ore.—Our travelling correspondent has sent from Murphy's Camp, by Mr. McGowon, of Alameda, some rare specimens of silver bearing rock, of which we shall have more to say at some future time.

Crowaino.—Communications from different sections are crowding in upon us thick and fast, so mueh so that we have had to defer several valuable contributioas until next week.

Worth Readino and Preserving.—Next week we shall publish Prof. J. D. Whitney's Lecture on "Mining," he having kindly acceded to our request for tne MSS for publication. Those who had the pleasure of listeaing to the lecture on Thursday Evening, will agree with us that every seatence is worthy carcful consideration and preservation.

Automaton Mechanism.—Much attention appears to be directed, at the preseut time, to automatic mechanism. The latc patcat office reports coatain numerous awards of patents for automatic toys. The Eastern public are treated to frequent exhibitioas of such devices. One Col. du Hamel recently exhibited an automatic horse in New York. The latest speciimen is the walking doll. Some years ago there was a talking figure exhibited in New York which actually spoke several senteaces. Nothing has, however, yet surpassed Vaucanson's duck, which ate, swallowed and digested its food!

Informal Meeting.—We are requested to state that the "Pacific Board of Brokers" hold an informal meeting for the sale of stocks at their rooms each day from ¼ to eleven to ¼ past, (Sundays excepted.)

Early Blossoms.—The peach trees on Williams' ranch, about five miles below Sacramento, are commeacing to put out blossoms.

MINING AND SCIENTIFIC PRESS.

List of Principal Contents.

No. 1 of Volume VIII—January 2, 1864.—Mastodon Thigh Bone—Illustrated; Mining Review for 1863; Practical Education; Legislative Aid; Taxing the Mines; Gold Mines of New Zealand; Mining and Metallurgical Journal; A Trip to the Mines—Mariposa county; Silver Mountain District: The Lady Bryan Mine; Miscellaneous Items; Knight's Ferry—by our Traveling Correspondent; Hints to Prospectors; Letter from Lower California; Stock Remarks; Summary of Mining News—Gleaned from Various Sources; The Mining Interest; Milling Associations; Keystone Concentrating Works; Report of Stock Sales for the Week—Prices Bid and Asked; List of New Incorporations; Recent Patents; California Inventions; Mining Companies, Assayers', Stock Dealers', Machinists', Foundrymen's, and other advertisements.

No. 2—Jan. 9.—Hunter's Grain Separator—a new Invention, Illustrated; "A little Learning" not "A Dangerous Thing;" Crimea House—Copper Mines, by Our Traveling Correspondent; Reese River Correspondence; Summary of Mining News—California, Washoe, Humboldt, Reese and Owen's River Items; Annual Report of the Gould & Curry Mining Company; Owen's River Letters; Copper Mining in Canada; Short Paragraphs; Industrial Facts; Annual Treasury Shipments; Encourage Home Industry; Beginning of the New Year; Home vs. Distant Mines; California Copper Smelting Works; California Academy of Natural Sciences; Mining Share Market; Our Enlargement; Record of Mining Incorporations; Patent Department; The State Library; About Marvelously Rich Mines; Copper, its Price and Demand; Editorial Items.

No. 3—Jan. 16.—A Patent Stone-Breaker—with Illustrations; Extraordinary Mental Developments; Reese River Letters—Smoky Valley, Winter Mines; Sanitary Remarks; Hints to Prospectors; Mining Summary—Placer county, Sierra, Yuba, Reese River, Humboldt, Washoe, Esmeralda, Lower California and Colorado Items; Statistical Articles; New Patents; Lost Arts; Editorial Paragraphs; Mining Share Market; Ophir Co. vs Burning Moscow; Our Harbor Defences; New Incorporations; Stock Reports; Branch Mint Report; Petroleum as Fuel; Varieties; New Mining Notices and Industrial Advertisements.

No. 4—Jan. 23.—Indian Bar Copper Mines—Illustration of the Washington Mine; Correspondence—Chinese Camp and Jamestown; Reese River Letters; Summary of Mining News; Washoe Mining Stocks; A Durable Ink; The Metal Market; Roll of New Incorporations; The Opinions of Our Neighbors; Miscellaneous Information—Mechanical and Industrial Facts; Patent Department; A Mining School for California; The Mechanics' Institute and Fair; From Lower California; Magnificent Specimens; The Beauty of the Season; Silver Bricks; Mining Share Market; A Mining Advertiser, Editorial Paragraphs; Important Success; Mining Laws—a good suggestion; Stock Reports; Total Stock and Mining Transactions for the week; Chippings; New Mining Notices, etc.

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Record of New Incoporations.

The following is a list of the companies having their principal place of business in San Francisco, which have filed articles of incorporation in the County Clerk's office since our last report.

Don Quixote Gold and Silver Mining Company.—Location, Owens River District, Mono Co., California. Capital stock, $150,000, in shares of $100 each. Trustees: S. H. Gibbs, C. A. Niles, J. R. Westervell, G. M. Sommers and Wallace Stewart.

Cinnabar G. & S. M. Co.—Virginia district, N. T. Capital stock, $120,000, in shares of $100 each. Trustees: Charles B. Grant, Daniel Murphy, Isaac Davis, John Kehoe and H. J. Walton.

Lucinda G. & S. M. Co.—Reese River District, Lander county, N. T. Capital stock, $80,000, in shares of $100 each. Trustees: John M. Loane, Benjamin Brady, B. Herenghi, Adolph Falk and B. Fisher.

Oregon G. & S. M. Co.—San Antonio district, Lower California. Capital stock, $262,000, in shares of $100 each. Trustees: J. Funkenstein, H. Breslower and J. Marks.

Tectonia M. Co.—San Miguel Ranch. Trustees: P. B. Oppenheim, Samuel Purdy, Hart Pineers, J. W. A. Gilmore, C Church. Capital stock, $820,000.

Kate Kearney G. & S. M. Co.—Reese River. Trustees: Arthur W. Gedney, B. E. Hickok, E. W. Wadley. Capital stock, $220,000.

Germania G. & S. M. Co.—San Bernardino county, California. Trustees: Charles Hopps, Christian Hutchinson, F. P. Lanterwasser, David Kanary, Herman Droste. Capital stock, $500,000.

Gunro G. & S. M. Co.—Esmeralda county California. Trustees: C. H. Higbie, F. A. Coleyn, J. L. Hill, J. S. McDonald, W. A. Umland, Capital stock, $500,000.

Argus G. & S. M. Co.—Esmeralda county, California. Trustees: W. A. Umland, A. S. Fraser, C. H. Higbie, J. S. McDonald. Capital stock, $600,000.

Dido G. & S. M. Co.—Esmeralda county, California. Trustees: C. H. Higbie, William Witham, W. A. Umland. Capital stock, $400,000.

Gambersino G. & S. M. Co.—Esmeralda county, California. Trustees: C. H. Higbie, A. E. Fraser, W. A. Umland. Capital stock, $600,000.

Gentle Voice G. & S. M. Co.—Reese River. Trustees: F. A. Miller, G. W. Terrill, P. Seigles, S. Molitor, A. P. Molitor. Capital stock, $90,000.

Pittsburg G. & S. M. Co.—Location, Humboldt county, N. T. Trustees: Wm. P. Denckla, M. S. Thompson, R. O'Sullivan. Capital stock, $870,000.

McDermott G. & S. M. Co.—Location, Nevil's Gate District. Trustees: Frank McDermott, A. J. Brewer, John J. Mills. Capital stock. $89,000

Volunteer G. & S. M. Co.—Location, Douglas county, N. T. Trustees: John Green, Thomas Lovell, E. Fitzgerald. Capital stock, $100,000.

Grey Eagle G. & S. M. Co.—Location, Reese River. Trustees: J. H. Gray, L. D. Campbell, J. M. Bosworth. Capital stock, $100,000.

Morning Call S. M. Co.—Location, Lander county, N. T. Trustees: Peter B. Foster, J. W. Gale, Geo. E. Barnes, D. M. Richards, J. B. Knapp. Capital stock, $250,000.

Rising Sun S. M. Co.—Location, Lander county, N. T. Trustees: J. L. Shiman, J. S. Finch, B. M. Atchison. Capital stock, $100,000.

Sutro G. & S. M. Co.—Location, Reese River. Trustees: J. W. Baronski, Chas. Sutro, E. E. Locke. Capital stock, $70,000.

Washoe G. & S. M. Co.—Location, Arizona. Trustees: James A. Harmon, L. B. Wooster, Geo. Y. Loring. Capital stock, $2,600.

Robinson G. & S. M. Co.—Location, Lander county, N. T. Trustees: J. R. Selden, S. Hahn, Benj. Hagan. Capital stock, 160,000.

Upward and Onward O. & S. M. Co.—Same location, Trustees and capital stock.

Silver Chimney C. & S. M. Co.—Location, Lander county, N. T. Trustees: E. Vollipac, F. Wolf, Geo. Wheeler, T. C. Whitaup, James Deasy. Capital stock, $180,000.

La Pobelita and Espiritu Santa O. & S. M. Co.—Location, Cosala District, Sinaloa, Mexico. Trustees: A. A. Cobb, T. N. Cazneau, M. Fennell, I. Rowell, Levi Parsons, P. Porlois, E. B. Goddard. Capital stock, $990,000.

Santa Cecilia and San Galo O. & S. M. Co.—Location, Trustees and capital stock same as above.

Kerr and Lake G. & S. M. Co.—Location, Reese River District, Lander county, N. T. Trustees: C. B. Grant, John Grant, Francis C. Belden, Thomas Marshall, Edward Cullahan. Capital stock, $160,000.

Margaret Grove G. & S. M. Co.—Location, Trustees and capital stock, same as above.

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Red Jacket G. & S. M. Co.—Location and Trustees, same as above. Capital stock, $120,000.

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Favorable to Inventors.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the Mining and Scientific Press, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

Stockton.—Patrons of the *Press* will obtain the paper at the News Store of Kerskl Bros, who receive them by Sunday morning's boat.

Our Traveling Agent, J. M. Wolf, contemplates an early visit to Nevada, Placer and El Dorado counties, and Nevada Territory. Mr W. is an observing and reliable gentleman, and our friends in sections visited by him, will confer mutual favors upon themselves and us, by giving him a cordial reception.

The Publication of Mining Notices in the Mining & Scientific Press obtains for them a more general circulation, among parties directly interested, (in this city and throughout the mining districts of the coast, than can be secured through any other medium. State laws require their publication but once a week, and Secretaries and Trustees can make a material saving of costs to stockholders by ordering their advertisements inserted in the journal most properly entitled to receive their patronage—the weekly Mining and Scientific Press.

Triunfo Gold and Silver Mining Company.—At a Meeting of the Trustees of the Triunfo Gold & Silver Mining Co. held January 23d 1864, an assessment of One ($1) dollar per share was levied on each and every share of the assessable stock of the Company, payable immediately to the Secretary, at the Office of the Company, No. 1 Government House, in United States Gold Coin.

5v8-5t HENRY S. BROOKS, Sec'y.

Black Swan Gold and Silver Mining Company, Reese River District, Lander county, N. T.—Notice is hereby given, that the regular annual meeting of the stockholders of the Black Swan Gold and Silver Mining Company will be held on the first day of March next, at 4 o'clock P. M., at the Company's office, No. 305 Montgomery street, San Francisco. By order of the Trustees. J. S. LUTY, Secretary.

San Francisco, Jan. 27, 1864. 5v8-5t

NAVIGATION OF THE COLORADO.

The "Colorado of the West," as it is called to designate it from the several other rivers of the same name, is next to the largest stream that flows into the Pacific Ocean. It rises in Nebraska and Oregon, and drains on its way two-thirds of Arizona and portions of Utah and California—an area of over 300,000 square miles. The Green and Grand rivers are supposed to unite, somewhere near the boundary of Utah, and form the Colorado. Below this point, for a long distance, nothing is known of it, and its borders are supposed to be uninhabited, even by the Indians—winding its way through solitude most profound.

Of late, considerable attention has been directed to the navigation of this river, consequent upon the development of mineral wealth in Arizona, and the organization of that Territory. In 1856 Lieut. Ives explored the Colorado to the mouth of Black Cañon, with a little stern-wheel steamboat, during the lowest stages of the stream, and 22 inches of water was found over the shoalest bar. Since that time the "Colorado Navigation Co." have steamboated upon the river, relying solely upon the Government freight. Within the last year discoveries of mineral wealth have attracted thither hundreds of adventurers and capitalists, and the demand for supplies has been greater than could be accommodated overland, besides some more economical method of transportation was necessary—12 cents per pound being too high a rate for freight, with a navigable stream so near at hand. The old steamboat company, fearing an opposition, attempted to meet this demand, but have made a signal, and to the hundreds who have depended on them, a disastrous failure. This great drawback is about to be righted by the establishment of another line of steamboats on the river, and the importance of its navigation will soon become apparent. It will be found the most economical avenue for the transportation of supplies to New Mexico and Utah; computed from what is now considered the head of navigation, 700 miles of land travel can be saved to Great Salt Lake. The Reese River country will find the head of navigation upon this stream to be the nearest point of navigable access, and an immense track of country, the value of which is yet to be disclosed, must derive its support from this river. It is estimated to be 500 miles from the head of the Gulf to the present head of navigation on the Colorado; but its waters may be found navigable even up the Green river. There is certainly a rich harvest in store for enterprise and adventure in the navigation of this vast and yet unimproved channel.

Mining Incorporations of 1863.

We present the following tabular statement of the Mining Incorporations organized in this State during the past year:—

January	48	Gold & Silver;	6	Copper;	2 Tunnel.
February	108	"	10	"	3 "
March	223	"	22	"	23 "
April	292	"	44	"	15 "
May	245	"	36	"	8 "
June	291	"	58	"	8 "
July	259	"	38	"	3 "
August	259	"	61	"	4 "
September	246	"	42	"	7 "
October	236	"	35	"	8 "
November	166	"	14	"	2 "
December	134	"	14	"	3 "
Total	2467		380		86

Making a grand total of 2,933 gold, silver and copper mining companies which were organized in this State during the year 1863.

Each of these corporations, on an average, represents 2,000 shares of stock, or an aggregate of nearly 6,000,000 shares. Most mines represented by these shares are intended to be worked, or their projectors would scarcely go to the expense of incorporating them. Now it is evident that they cannot be worked to any extent short of an assessment of at least 25 cents per month to the share. This would give us an average of $1,500,000 per month, required to prospect our mines. We presume this amount is actually being raised at the present time, and transmitted, chiefly in the form of tools and miner's supplies. It is moreover estimated that this amount will soon be greatly increased. The sum now called for per month is just about equal to the yield of the transmontane mines. Unsatisfactory as this exhibit may appear to most readers, we have the fullest confidence in its reliability as an investment. Probably the early history of no mining country on the globe can make a better showing, and yet more money has been made from mining investments, in proportion to the capital involved, than from any class of investments which has ever been presented to the public.

UNION PACIFIC RAILROAD.—A dispatch dated at Omaha City, Nebraska, December 12th, to the Eastern papers, says:

Professor Hodge has taken a survey of the Union Pacific Railroad, and reports that there are easy grades through Cheyenne Pass, and abundant coal and iron ore on the eastern slope of Black Hills, six hundred miles due west from Omaha.

Patent Claims.—We will furnish, on application, the claim of any invention that has been patented within the last fourteen years. The name of the patentee, date of patent, when known, and two dollars for copying, should be sent.

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Professors BREWER and WHITNEY, of the State Geological Survey, and Rev. T. STARR KING.

The Lectures will be delivered as follows:—

THURSDAY EVENING, January 14th, 1864, by Professor Brewer. Subject: Mountain Scenery of California.

THURSDAY EVENING, January 28th, 1864, by Professor Whitney. Subject: ——.

THURSDAY EVENING, February 11th, 1864, by Rev. T. Starr King. Subject: ——.

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For further particulars he would refer to J. Burnet, Esq., 425 Davis St., San Francisco, Cal. C. W. TAPPEN.

El Paso, June 21, 1863. au31-tf

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REFERENCES:—Prof. J. D. Whitney, State Geologist, San Francisco; Alsop & Co., San Francisco; Sather & Church, San Francisco; John Parrott, San Francisco; D. O. Mills, Sacramento. 1tf

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Advantageous Terms for Prospector's Clubs and Mining Companies.

J. H. CHURCHILL, M. A.,

[FROM EUROPE.]

21 Government Block, corner of Sansome and Washington Streets, San Francisco.

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NORTH BEACH

Quartz Mill and Reduction Works

ARE PREPARED TO WORK GOLD AND SILVER ORES, IN large or small quantities.

Working assays made of small lots, and all kinds of ores crushed at short notice.

Our new and complete Machinery, will enable us to give results fully up to the merits of rock.

WHEELER & THAYER, Proprietors.

C. C. JONES, Amalgamator.

San Francisco, Oct. 13, 1863. j2tf

HOWLAND, BELL & CO.,

Copper Crushing and Grinding.

Attend to all kinds of Grinding & Crushing,

—SUCH AS—

COPPER ORES, MARBLE DUST, FIRE-BRICK DUST, DRUGS,

And Feed of all Kinds,

All of which will be Ground at the Shortest Notice.

—ALSO—

California Mineral Paint and Mineral Polishing Powder.

Works—No. 537 Market Street.

San Francisco, January 1st, 1864. 1-tf

JOHN TAYLOR,

—IMPORTER AND DEALER IN—

Druggists' and Chemists' Glassware,

And a Full Assortment of Assayers' Articles.

—INCLUDING—

Bullion and Assay Ballances, Furnaces, Muffles, Crucibles, Cupels, Acids, Etc., Etc.

Also—A Full Assortment of Reagents.

JOHN TAYLOR,

2-tf 514 Washington St., Up Stairs, San Francisco.

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METALLURGICAL WORKS,

FOR THE REDUCTION OF

SILVER AND GOLD ORES, TAILINGS, SULPHURETS, ARENIURETS, ETC., ETC. CUPELLATIONS AND REFINING OF SILVER AND GOLD,

Practical Assays for Silver and Gold, in small and large quantities, by Smelting, Chlorination and Pan Manipulation.

WORKS—On the San Bruno Road.

OFFICE—No. 605 Montgomery St., San Francisco. nov7-tf

LEANDER RANSOM,

Civil Engineer and Surveyor,

HAVING BEEN CONNECTED WITH THE PUBLIC WORKS OF the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. Also

State Locating Agent,

AND AS SUCH HAVING THE SALE OF

600,000 Acres of State School Lands.

At the low price of $1,25 per Acre.

TERMS—Twenty per cent in cash and the balance on a credit of several years.

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To Quartz Miners.

ALL PERSONS INTERESTED IN MINING MACHINERY ARE invited to call at Donahue's Foundry and examine my improved Amalgamator. It is unquestionably superior to anything now known for amalgamating Silver and Gold. It works 1000 pounds at a time, and will amalgamate over three tons a day. By the motion of the revolving muller, the pulp is drawn through its centre and passes under it, between the grinding surfaces, to the circumference; from whence it passes again over the muller to the centre, through the holes and between the grinding surface to the circumference as before. Thus a constant circulation of the pulp is kept up, bringing the particles of ore again and again under the muller, and reducing the whole mass to an impalpable powder.

No quicksilver lies between the surfaces to be ground, but at the circumference and centre of the pan where the metal must pass through it as the pulp circulates.

A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S. Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.

sep21

D. W. MYERS. H. C. SOMERS

MYERS & SOMERS.,

The Largest Wholesale and Retail Manufacturers of

OVAL, SQUARE, AND CIRCULAR PICTURE FRAMES,

IN CALIFORNIA.

OVAL PIER AND MANTEL MIRROR FRAMES.

Nos. 33 and 35 Fremont street, bet. Market and Mission,

SAN FRANCISCO.

☞ Oval and Square Stretchers, &c., for Artists, and all kinds of Frames for Photographs and Portraits. 3tf

J. H. GRUSH, J. A. FERR, W. BUSHMAN

GRUSH & CO.,

Pattern and Model Makers.

Drawings Made for Engines, Mills, Water Wheels, Mining Machinery, Etc.

—ALSO—

WOOD WORK FOR ALL KINDS OF MACHINERY.

☞ SCROLL SAWING DONE TO ORDER.

Fremont St., between Market and Mission, San Francisco. 3-3m

GEORGE T. PRACY,

MACHINIST AND BLACKSMITH.

Steam Engine, Flour and Saw Mill,

And Quartz Machinery, Printing Presses,

—AND—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED

Nos. 109 and 111 Fremont street, near corner of Mission;

OPPOSITE MECHANICS' MILL,

3-qy SAN FRANCISCO.

HAWLEY & CO.,

—IMPORTERS AND DEALERS IN—

Hardware, Building Materials,

CARPENTERS' TOOLS, AGRICULTURAL AND MINING IMPLEMENTS, ETC., ETC.

3-m Cor. of California and Battery Streets, San Francisco.

D. B. HINCKLEY, WM. E. WORTH. WM. A. FIELD

Fulton Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First Street, between Market and Mission streets,

3-qy SAN FRANCISCO.

Pacific Metallurgical Works,

North Beach, San Francisco.

THE COMPANY HAVING BEEN TO A LARGE EXPENSE IN enlarging their Works, are now prepared to contract to work any quantity of Gold and Silver Rock, nearer the true assay than any other Company in this Country, or Europe.

G. T. FOUQUE, Superintendent.

S. C. BRADSHAW, Jr., Secretary.

Office, 511 Sacramento street, San Francisco. 3-tf

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THE FLORENCE!

A GREAT IMPROVEMENT!

THIS CELEBRATED

NEW SEWING MACHINE

IS ACKNOWLEDGED TO BE

THE BEST IN THE WORLD!

IT MAKES FOUR DISTINCT STITCHES!

IT FEEDS THE WORK EITHER WAY!

WILL SEW OVER THE HEAVIEST SEAMS,

WITHOUT CHANGE OF TENSION!

IT SELDOM, IF EVER, DROPS A STITCH!

IT SEWS WITH SILK OR COTTON

THREAD EQUALLY WELL!

IT RUNS LIGHTLY, SEWS RAPIDLY

AND IS ALMOST NOISELESS!

IT DOES THE HEAVIEST OR

FINEST WORK WITH EQUAL FACILITY!

IT MAKES A STICH ALIKE ON BOTH SIDES OF THE FABRIC, USING ONLY HALF THE QUANTITY OF THREAD NECESSARY FOR THE OLD FASHIONED CHAIN-STICH MACHINES!

WHILE IT POSSESSES ALL THE GOOD QUALITIES OF others, and has many advantages over any and all of them, the FLORENCE is sold at corresponding prices with other first-class Machines. We

WARRANT EVERY MACHINE

To be all that we claim for it, and will give a WRITTEN WARRANTY if required.

AGENTS WANTED in all the principal cities and towns on the Pacific coast.

Send for Circulars and samples of sewing.

DON'T BUY A SEWING MACHINE UNTIL

YOU HAVE

SEEN "THE FLORENCE!"

SAMUEL HILL, General Agent.

111 Montgomery street, between Bush and Sutter, San Francisco, California. j2-3m

Stock Reports.

SAN FRANCISCO STOCK BOARDS.

Sales by the San Francisco Stock and Exchange Board, and the San Francisco Board of Brokers.

[Revised for the Mining and Scientific Press.]

SATURDAY, JANUARY 23, 1864.

S. F. S. AND E. BOARD.

10 shares Sierra Nevada at $87½ per share—seller 30 days.
20 shares Norton, at $8 per share.
10 shares Real del Monte at 162½ per share.
30 shares Real del Monte at 162 per share,
10 shares Real del Monte at 155 per share.
15 shares Real del Monte at 160 per share—b 30.
15 shares Real del Monte at 150 per share.
10 shares Real del Monte at 140 per share.
3 shares Real del Monte at 135 per share.
5 shares Real del Monte at 135 per share—b 60.
20 shares Real del Monte at 130 per share—r w.
10 shares Real del Monte at 130 per share.
3 shares Real del Monte at 140 per share.
10 shares Real del Monte at 145 per share—r w.
47 shares Real del Monte at 140 per share.
10 shares Real del Monte at 145 per share—b 30.
25 shares Golden Swan at $31 per share.
15 shares Bullion G. H. at $71 per share.
10 shares Bullion, O. H., at 70 per share.
14 shares Melones at $75 per share.
20 shares Melones at 75 per share—s 30.
10 shares Melones at 75½ per share—s 30.
10 shares Uncle Sam, F. D., at $5 per share.
2 shares Burning Moscow at $112½ per share.
50 shares Burning Moscow at 114 per share.
40 shares Lady Bryan at $57½ per share—b 30.
10 shares Lady Bryan at 56 per share.
5 shares Lady Bryan at 58 per share—b 30.
75 shares Lady Bryan at 59 per share.
30 shares Lady Bryan at 56 per share.
40 shares Lady Bryan at 55 per share.
10 shares Lady Bryan at 57½ per share—b 30.
15 shares Baltimore American at $40 per share.
10 shares Baltimore American at 42 per share.
20 shares Baltimore American at 42½ per share.
5 shares Baltimore America at 43 per share.
15 shares Baltimore American at 44 per share.
30 shares Baltimore American at 42½ per share—s 30.
30 shares Baltimore American at 44 per share.
10 shares North American at $89 per share.
2 shares Uncle Sam at $500 per share.
10 shares Standard, R. R., at $30 per share.
50 shares Willow Springs at $2 per share.
30 shares Utah at 2½ per share.
10 shares Mt. Hope, at $7 per share.
11 shares Nevada, J. G., at $85 per share.
12 shares Ophir at $1530 per foot—s 30.
24 shares Ophir at 1530 per foot.
120 shares Ophir at 1530 per foot.
8 shares Chollar at $370 per foot.
2 shares Gould & Curry at $4950 per foot.

AFTERNOON SESSION.

15 shares Baltimore American at $45 per share.
10 shares Baltimore American at 46 per share—b 30.
30 shares Baltimore American at 44 per share.
15 shares Real del Monte at $171½ per share.
10 shares Real del Monte at 150 per share—b 30.
20 shares Real del Monte at 140 per share.
15 shares Real del Monte at138 per share.
15 shares Real del Monte at 145 per share—b 30.
50 shares Real del Monte at 146 per share.
5 shares Real del Monte at 147 per share—b 30.
30 shares Real del Monte at 146 per share—b 30.
5 shares Real del Monte at 145 per share—b 30.
50 shares Lady Bryan at $57½ per share—b 20.
40 shares Lady Bryan at 57 per share—b 30.
15 shares Lady Bryan at 57¾ per share—b 30.
60 shares Adriatic at $12½ per share—b 30.
3 shares Melones at $70 per share.
15 shares Pride of the West at $100 per share.
10 shares Mt. Hope, G. H., at $7½ per share.
5 shares Burning Moscow at $120 per share—b 30.
10 shares Bullion, G. H., at $70 per share—b 30.
10 shares Utah at $21½ per share.
5 shares Savage, $3000 per share.
60 shares Chollar at $350 per foot.
40 shares Chollar at 352 per foot.
60 shares California at $1000 per foot—b 60.

S. F. B. OF BROKERS.

5 shares Coso at $5 per share.
15 shares Blue Ledge at $93½ per share.
5 shares Harmon at $26 per share.
25 shares Burning Moscow at 116 per share—b 30.
14 shares Caledonia Tunnel at $29 per share.
10 shares El Dorado at $50 per share.
20 shares Lady Bryan at $55 per share—s 3.
10 shares Lady Bryan at 55½ per share—s 3.
20 shares Lady Bryan at 56 per share—s 3.
5 shares Real del Monte at $175 per share.
20 shares May Flower, Coso, at $1 per share.
20 shares May Flower, Coso, 1 25 per share.
10 shares Crockett Consolidated at $25.
20 shares Norton at $10 per share.

AFTERNOON SESSION.

4 shares Coso at $5 per share.
10 shares Rhode Island at $7½ per share.
10 shares Shawmut at $25 per share—b 30.
5 shares Harmon at $28 per share—b 30.
20 shares Norton at $10½ per share.

Sales by the S. F. Stock and Exchange Board,.....$436,693 50
Sales by the S. F. Board of Brokers,..... 8,667 25

Total sales of the day, by both Boards,..... 444,760 75

MONDAY, JANUARY 25, 1864.

S. F. S. AND E. BOARD.

10 shares El Dorado at $50 per share.
20 shares El Dorado at 52 per share.
30 shares El Dorado at 52½ per share—b 30.
5 shares El Dorado at 55 per share.
60 shares Norton at $8 per share.
25 shares Adriatic at $11½ per share—r w.
10 shares Seneca at $10 per share.
17 shares Wide West at $39 per share.
5 shares Real del Monte at $140 per share.
7 shares Real del Monte at 135 per share.
5 shares Real del Monte at 140 per share—b 30.
10 shares Real del Monte at 132½ per share.
10 shares Real del Monte at 130 per share.
5 shares Real del Monte at 135 per share—b 30.
20 shares Real del Monte at 131 per share.
10 shares Real del Monte at 136 per share—b 30.
15 shares Real del Monte at 132½ per share.
6 shares Real del Monte at 132 per share.
20 shares Lady Bryan at $61 per share.
40 shares Lady Bryan at 62½ per share—b 30.
30 shares Lady Bryan at 60 per share.
10 shares Lady Bryan at 60 per share—b 5.
50 shares Lady Bryan at 63 per share—b 30.
10 shares Lady Bryan at 59 per share.
25 shares Lady Bryan at 60 per share—b 30.
40 shares North American at $85 per share.
15 shares North American at 84 per share.
10 shares Melones at $60 per share.
20 shares Baltimore American at $43 per share
50 shares Baltimore American at 41 per share.
40 shares Baltic at $175 per share.
20 shares Baltic at 170 per share.
5 shares Napoleon, copper, at $50 per share.
30 shares Golden Swan at $31 per share
10 shares North Potosi at $38 per share.
10 shares Bullion, G. H., at $66 per share.
25 shares Greenville, E., at $20 per share.
10 shares Burning Moscow at $113 per share.
5 shares Burning Moscow at 110 per share.
10 shares Burning Moscow at 112½ per share.
20 shares Chollar at $345 per foot.
12 shares Chollar at 340 per foot.
20 shares Chollar at 300 per foot.
20 shares Chollar at 291 per foot.
8 shares Chollar at 285 per foot.

AFTERNOON SESSION.

30 shares Lady Bryan at $59 per share.
5 shares Lady Bryan at 58 per share.
10 shares Lady Bryan at 57½ per share.
6 shares Lady Bryan at 58½ per share—r w.
5 shares Melones at $55 per share.
20 shares North Ophir at $5 per share.
5 shares North American at $86 per share.
5 shares North American at 85 per share.
10 shares Real del Monte at $136 per share.
15 shares Real del Monte at 140 per share.
5 shares Real del Monte at 150 per share—b 30.
5 shares Real del Monte at 145 per share.
10 shares Real del Monte at 147½ per share
5 shares Real del Monte at 155 per share—b 30.
18 shares Real del Monte at 150 per share.
5 shares Real del Monte at 152½ per share.
25 shares Real del Monte at 160 per share—b 30.
10 shares Real del Monte at 155 per share.
5 shares Real del Monte at 155 per share—r w.
15 shares Real del Monte at 157½ per share.
20 shares Real del Monte at 155 per share.
10 shares Real del Monte at 160 per share—b 30.
15 shares Baltimore American at $45 per share.
5 shares Burning Moscow at $115 per share.
5 shares Burning Moscow at 113 per share
10 shares Tri-Union at $6 per share.
20 shares Pride of the West at $100 per share—b 30.
12 shares Ophir, $1500 per foot.
120 shares Ophir at 1500 per foot.
60 shares Ophir at 1500 per foot—b 10.
24 shares Ophir at 1500 per foot.

S. F. B. OF BROKERS.

MORNING SESSION—OPEN BOARD.

20 shares Lady Bryan at $58 per share—b 30.
10 shares Lady Bryan at 58½ per share—b 30.
10 shares Lady Bryan at 56½ per share.
10 shares Lady Bryan at 57 per share.
10 shares Lady Bryan at 58 per share.
2 shares North Potosi at $36 per share.
16 shares North Ophir at $6 per share.
20 shares La Providencia, Copala, at $2 per share.
10 shares El Dorado at $51 per share—b 30.

ONE O'CLOCK SESSION.

50 shares Enterprise Tunnel at $6 per share.
50 shares Conqueror, R. R., at $25 per share.
5 shares Conqueror R. R., at 26 per share.
20 shares Shumnt at $28 per share—b 30.
10 shares Burning Moscow at $105 per share—s 60
10 shares Burning Moscow at 102½ per share—s 60.
28 shares Lady Bryan at $60 per share—b 30.
10 shares Greenville, E., at $20 per share.
25 shares Campton E. at $7.
25 shares Campton E. at 7½.
25 shares Campton E. at $8.
5 shares Harmon, El Dorado county, at $26½
20 shares Gibson, S. V., at $10½ per share.

Sales by the S. F. Stock and Exchange Board,.....$415,041 50
Sales by the S. F. Board of Brokers,..... 11,278 00

Total sales of the day, by both Boards,..... 426,319 50

TUESDAY, JANUARY 26.

S. F. S. AND E. BOARD.

66 shares Burning Moscow, at $112 per share.
15 shares Burning Moscow at 115 per share—b 30.
5 shares Burning Moscow at 110 per share.
50 shares El Dorado at $55 per share—b 90.
10 shares El Dorado at 55 per share.
10 shares Pride of the West at $105 per share—b 30.
10 shares Pride of the West at 102½ per share—b 30.
60 shares Mt. Davidson at $2 per share.
16 shares Bajazet at $32½ per share.
42 shares Real del Monte at $157½ per share.
36 shares Real del Monte at 162½ per share.
50 shares Real del Monte at 160 per share.
10 shares Real del Monte at 165 per share.
10 shares Real del Monte at 170 per share—b 30.
15 shares Real del Monte at 162½ per share.
15 shares Real del Monte at 160 per share.
30 shares Real del Monte at 160 per share—s 30.
5 shares Real del Monte at 170 per share—b 30.
30 shares Real del Monte at 172½ per share—b 30.
10 shares Real del Monte at 171 per share—b 30.
10 shares Caledonia Tunnel at $27 per share.
40 shares Lafayette at $10 per share.
20 shares Lafayette at 9½ per share.
30 shares North American at $90 per share—b 30.
5 shares Lady Bryan at $58 per share.
15 shares Lady Bryan at 57½ per share.
20 shares Lady Bryan at 57 per share.
4 shares Lady Bryan at 58 per share.
40 shares Lady Bryan at 60 per share—b 30.
100 shares Lady Bryan at 57½ per share—s 30.
35 shares Lady Bryan at 58 per share.
20 shares Baltimore American at $44 per share.
10 shares Baltimore American at 43½ per share.
30 shares Bullion, G. H., at $65 per share.
40 shares Nevada, Justice Ground at $80 per share—s 10.
10 shares Melones at $70 per share—b 25.
11 shares Melones at $75 per share—b 30.
5 shares Melones at $70 per share.
25 shares Greenville, E., at $20 per share.
100 shares Chollar at $295 per foot.
40 shares Chollar at 296 per foot.
40 shares Dancy at $67½ per foot.
78 shares Ophir at $1500 per foot.

AFTERNOON SESSION.

5 shares Real del Monte at $170 per share.
5 shares Real del Monte at 175 per share—b 20.
25 shares Real del Monte at 170 per share.
10 shares Real del Monte at 176 per share—b 30.
5 shares Real del Monte at 171½ per share—b 30.
15 shares Real del Monte at 180 per share—b 30.
10 shares Real del Monte at 170 per share.
10 shares Real del Monte at 172½ per share.
10 shares Real del Monte at 175 per share.
5 shares Real del Monte at 171½ per share.
10 shares Real del Monte at 180 per share—b 10.
10 shares Real del Monte at 175 per share.
5 shares Real del Monte at 181 per share—b 30.
20 shares Real del Monte at 180 per share—b 30.
5 shares Real del Monte at 175 per share.
5 shares Burning Moscow at $110 per share.
20 shares Burning Moscow at 106 per share.
40 shares Burning Moscow at 105 per share.
5 shares Adriatic at $11 per share.
10 shares Baltimore American at $42 per share.
30 shares Baltimore American at 40 per share.
10 shares Norton at $9½ per share.
5 shares Norton at 10 per share.
40 shares Lady Bryan at $57 per share—s 30.
20 shares Lady Bryan at 58 per share.
10 shares Lady Bryan at 57½ per share.
5 shares Melones at $70 per share—b 30.
20 shares Chollar at $300 per foot.

S. F. B. OF BROKERS.

MORNING SESSION—OPEN BOARD.

5 shares Conqueror, R. R. at $26 per share.
15 shares Blue Ledge, El Dorado county at $11.
10 shares Spanish No. 2, at $45 per share—b 30
10 shares Spanish No. 2, at 47½ per share—b 30.
30 shares Burning Moscow at 105 per share—s 60.
5 shares Lady Bryan at $59 per share—b 30.
10 shares Lady Bryan at 61 per share—b 30.
10 shares Baltimore American at $44 per share.
20 shares Baltimore American at 46½ per share—b 30.
20 shares El Dorado, $52½ per share—b 30.
60 shares Flora, R. R, at $7 per share.
6 shares North Ophir at $5½ per share.
5 shares Troy, R. R, at $18 per share.

ONE O'CLOCK SESSION.

5 shares Harmon, El Dorado county, at $23 per share.
10 shares North Potosi at $38 per share.
10 shares Lady Bryan at $60 per share—b 30.
20 shares Lady Bryan at $60½ per share—b 30.
2 shares Real del Monte at $160 per share.
5 shares Baltimore American at $42 per share.
10 shares North Ophir at $5½ per share.
20 shares North Ophir at 5½ per share.
10 shares North Ophir at 6 per share.
10 shares Sedgwick at $2 per share.

Sales by the S. F. Stock and Exchange Board,.....$281,054 00
Sales by the S. F. Board of Brokers,..... 11,262 67

Total sales of the day, by both Boards,..... 295,316 67

WEDNESDAY, JANUARY 27.

S. F. S. AND E. BOARD.

$2000 San Francisco Bonds, '58, at 65 per cent.
150 shares Eureka at $32½ per share—b 30.
10 shares Sierra Nevada at $80 per share.
100 shares Burning Moscow at $105 per share
15 shares Burning Moscow at 103 per foot.
20 shares Burning Moscow at 107½ per foot.
25 shares El Dorado at $55 per share—b 30.
10 shares El Dorado at 56 per share—b 30.
10 shares Norton at $9 per share.
20 shares Pride of the West at $95 per share—s 90.
5 shares Overman at $125 per share—b 30.
52 shares Real del Monte at $190 per share.
15 shares Real del Monte at 190 per share—b 30.
15 shares Real del Monte at 187½ per share.
7 shares Real del Monte at 189 per share.
3 shares Real del Monte at 188 per share.
20 shares Real del Monte at 192½ per share—b 30.
10 shares Real del Monte at 195 per share—b 30.
5 shares Real del Monte at 187½ per share.
5 shares Real del Monte at 200 per share—b 60.
5 shares Real del Monte at 192½ per share—b 30.
8 shares Real del Monte at 187 per share.
5 shares Real del Monte at 190 per share—b 30.
20 shares Napoleon (copper,) $52½ per share—b 30.
4 shares Napoleon, copper, at 50 per share.
10 shares Hawkeye "Oregon" at $50 per share.
7 shares Antelope at $240 per share.
13 shares North American $85 per share.
50 shares North American at 90 per share.
2 shares Bajazet at $35 per share.
15 shares Desert at $21 per share.
15 shares Standard R. R., $30 per share.
17 shares Melones at $66 per share.
5 shares Melones at 65 per share.
40 shares Lady Bryan at $58 per share—r w.
45 shares Lady Bryan at 58 per share.
15 shares Lady Bryan at 60 per share—b 30.
20 shares Baltic at $170 per share—b 30.
10 shares Blue Ledge at $10 per share.
20 shares Bullion, G. H., at $60 per share—b 5.
10 shares Bullion, G. H., at 62 per share—b 30.
5 shares Bullion, G. H., at 61 per share.
12 shares Bullion, G. H., at 60 per share.
120 shares Ophir at at $1500 per foot.
80 shares Chollar at $350 per foot—b 60.
5 shares Yellow Jacket at $900 per share.

AFTERNOON SESSION.

40 shares North Ophir at $7 per share.
41 shares North Ophir at 7¼ per share.
5 shares Chas. Cuny at $10 per share.
5 shares Real del Monte, $185 per share—b 30.
5 shares Real del Monte at 192½ per share—b 30.
30 shares Real del Monte at 180 per share.
8 shares Real del Monte at 187½ per share—b 30.
25 shares Real del Monte at 185 per share—b 30.
15 shares Real del Monte at 175 per share—s 30.
5 shares Real del Monte at 175 per share.
20 shares Real del Monte at 180 per share—b 30.
30 shares Real del Monte at 178 per share.
10 shares Lady Bryan at $60 per share.
10 shares Lady Bryan at 58 per share.
10 shares Lady Bryan at 60 per share—b 30.
10 shares Burning Moscow, at $115 per share.
10 shares North Potosi at $60 per share—b 30.
10 shares North Potosi at $57½ per share.
5 shares Uncle Sam at $615 per share—b 30.
5 shares Uncle Sam at $640 per share.
10 shares Pride of the West at $95 per share.
5 shares Nevada, J. G., at $100 per share—b 30.
20 shares Baltimore American at $37½ per share.
10 shares El Dorado at $55 per share—b 30.
8 shares Chollar at $315 per foot.
60 shares Chollar at 350 per foot—b 60.
12 shares Ophir at $1500 per foot.

S. F. B. OF BROKERS.

MORNING SESSION—OPEN BOARD.

10 shares Shamut at $29 per share—b 30.
10 shares Burning Moscow at $110 per share—b 30.
10 shares Lady Bryan at $60 per share—b 30.
10 shares Baltimore American at $40 per share.
10 shares Spanish No. 2, at $45 per share—b 30.
10 shares Mount Hope at $9 per share.
20 shares Baker, copper, at $130 per share.
10 shares North Ophir at $7½ per share.
5 shares Harmon, El Dorado county, at $30 per share.

ONE O'CLOCK SESSION.

6 shares Harmon, El Dorado county, at $29 per share.
5 shares Shawmut at $30 per share.
10 shares North Potosi at $50 per share.
10 shares Lady Bryan at $60 per share—b 30.
10 shares Lady Bryan at 58 per share.
10 shares Lady Bryan at 57 per share.
10 shares Lady Bryan at 59 per share—b 30.
20 shares Mount Hope at $8½ per share.
10 shares Nortun at $10 per share—b 30.
10 shares Burning Moscow at $100 per share—s 30.
10 shares North Ophir at $7 per share.
11 shares Silver Eagle at $10 per share.
5 shares Conqueror, R. R., at $25 per share.
10 shares Victory, O. R., (unassessible,) at $8 per share.
10 shares Golden City at $3¼ per share.

Sales by the S. F. Stock and Exchange Board,..... $369,512 50
Sales by the S. F. Board of Brokers,..... 10,577 50

Total sales of the day by both Boards,..... 380,090 00

THURSDAY, JANUARY 28.

S. F. S. AND E. BOARD.

20 shares North Potosi at $60 per share.
35 shares North Potosi at 65 per share.
40 shares North Potosi at 62½ per share.
10 shares North Potosi at 65 per share.
10 shares Norton at $9½ per share.
50 shares Norton at 10 per share.
20 shares Burnside at $18 per share.
10 shares Wide West at $42½ per share—b 30.
15 shares Real del Monte at $170 per share.
10 shares Real del Monte at 165 per share.
25 shares Real del Monte at 165 per share—b 30.
12 shares Real del Monte at 160 per share.
13 shares Real del Monte at 165 per share.
10 shares Real del Monte at 172 50 per share.
10 shares Real del Monte at 170 per share—b 30.
15 shares Real del Monte at 175 per share—b 30.
5 shares Real del Monte at 165 per share—s 30.
10 shares Real del Monte at 170 per share.
47 shares Real del Monte at 168 per share.
20 shares Silver IIIII at $14 per share.
10 shares Silver IIIII at 15 per share—b 30.
10 shares Falls of Clyde at $2 per share.
10 shares Falls of Clyde at 1½ per share.
5 shares Campton, E., $6 per share.
35 shares Lady Bryan at $57½ per share.
5 shares Lady Bryan at 59 per share—b 30.
75 shares Lady Bryan at 57 per share.
20 shares Baltic at $170 per share.
10 shares Baltic at 180 per share—b 30.
15 shares Melones at 80 per share.
10 shares Standard, R. R., at $35 per share.
25 shares Burning Moscow at 102½ per share
10 shares Burning Moscow at 102 per share.
5 shares Bullion, G. H., at $61 per share.
10 shares Bullion, O. H., at 65 per share—b 30.

5 shares Bullion, G. H., at 62 per share.
40 shares North Ophir at $9 per share.
40 shares Mt. Hope at $9 per share.
28 shares Nevada, J. G., at $100 per share—s 5.
10 shares Nevada, J. G., at $100 per share—s 10.
20 shares Buckeye at $11 per share.
2 shares Yellow Jacket at $900 per foot.
12 shares Chollar at $310 per foot.
$15,000 Legal Tender Notes at 67½ per cent—b 30.
$5,000 Legal Tender Notes at 66 per cent—s 30.

AFTERNOON SESSION.

5 shares North Potosi at $35 per share.
35 shares North Potosi at 40 per share.
20 shares North Potosi at 41 per share.
50 shares North Potosi at 42 per share.
5 shares North Potosi at 45 per share.
30 shares Burning Moscow at $103 per share.
5 shares Burning Moscow at 102½ per share.
39 shares Baltic at $170 per share—b 30.
45 shares Baltic at 172½ per share—b 30.
95 shares Baltic at 175 per share—b 30.
20 shares Baltic at 173 per share—b 30.
33 shares Baltic at 167½ per share.
30 shares North Ophir at $8 per share.
7 shares Imperial at $145 per share.
20 shares North American at $36 per share—b 30.
5 shares Real del Monte at $167 per share.
5 shares Real del Monte at 165 per share.
20 shares Uncle Sam at $600 per share—b 30.
5 shares Lady Bryan at $58 per share.
5 shares El Dorado at $50 per share.
10 shares Nevada, J. G., at $100 per share.
1 share Savage at $3300 per foot—b 30.
8 shares Chollar at $310 per foot.
32 shares Chollar at 315 per foot.

S. F. S. AND E. BOARD.

MORNING SESSION—OPEN BOARD.

5 shares Coso at $5 per share.
10 shares Burning Moscow at $110—b 30.
10 shares Burning Moscow at 105 per share—b 30.
10 shares Bullion, G. H., at $65 per share—b 30.
10 shares Crystal at $4 per share.
5 shares Baltimore American at $37 per share.
10 shares Baltimore American at 39 per share.
4 shares Adriatic at $10 per share.
20 shares Campton, E., at $7 per share.
20 shares Lady Bryan at $58 per share.
20 shares Lady Bryan at 58½ per share.

ONE O'CLOCK SESSION.

15 shares Harmon at $30 per share.
10 shares Harmon at 19½ per share.
12 shares Ophir at $1450 per foot.
5 shares Burning Moscow at $105—b 30.
10 shares Bullion, G. H., at $65 per share—b 30.
10 shares Bullion, G. H., at 62 per share.
20 shares Lady Bryan at $57½ per share.
20 shares Yankee Blade at $15 per share.
5 shares Conqueror, R. R., at $26 per share.
90 shares Campton, E., at 6½ per share.
10 shares Lady Adams at $22½ per share.

Sales by the S. F. Stock and Exchange Board,.....$147,450 50
Sales by the S. F. Board of Brokers,..... 27,892 25

Total sales of the day, of both Boards,..... 175,342 75

FRIDAY, JANUARY 29.

S. F. S. AND E. BOARD.

20 shares Burning Moscow at $102 per share.
1 share Savage at $3325 per share—b 30.
1 share Savage at 3375 per share—b 30.
15 shares North Potosi at $42½ per share.
20 shares North Potosi at 41 per share.
20 shares North Potosi at 42 per share.
10 shares Imperial at $150 per share.
10 shares Imperial 160 per share—b 30.
9 shares Imperial at 157½ per share—b 30.
5 shares Antelope at $200 per share.
2 shares Real del Monte at $165 per share.
22 shares Real del Monte at 160 per share.
15 shares Real del Monte at 161 per share.
25 shares Real del Monte at 165 per share—b 30.
10 shares Real del Monte at 160 per share—r w.
5 shares Real del Monte at 159 per share.
5 shares Real del Monte at 163 per share—b 30.
10 shares Real del Monte at 164 per share—b 30.
10 shares Utah at $20 per share.
15 shares Baltic at $150 per share—b 30.
10 shares Baltic at 165 per share.
10 shares Melones at $60 per share—b 30.
10 shares Melones at 62½ per share.
5 shares Baltimore American at $38 per share.
45 shares Lady Bryan at $58 per share.
100 shares Lady Bryan at 57 per share—s 30.
20 shares Lady Bryan at 60 per share—b 30.
80 shares Lady Bryan at 59½ per share.
20 shares Lady Bryan at $60 per share—b 10.
40 shares Lady Bryan at 60 per share—b 30.
30 shares Lady Bryan at 58 per share—s 30.
20 shares Burnside at $16½ per share.
10 shares Victor Hugo at $20 per share.
10 shares El Dorado at $51 per share.
20 shares Campton, E., at $7 per share.
2 shares Uncle Sam at $900 per share—r w.
2 shares Yellow Jacket at $900 per share.
8 shares Chollar at $325 per foot.
20 shares Chollar 310 per foot—b 30.
50 shares Spring Valley Water, 50 per cent on amount paid in.

S. F. B. OF BROKERS.

MORNING SESSION—OPEN BOARD.

10 shares North Potosi at $50 per share.
7 shares Bullion at $62 per share.
10 shares Bullion at 62½ per share.
10 shares Lady Bryan at $58 per share.
10 shares Lady Bryan at 59½ per share—b 30.
10 shares Lady Bryan at 60 per share—b 30.
10 shares Lady Bryan at 57 per share.
7 shares Mount Hope at $9¼ per share.
7 shares Mount Hope at 10 per share.
10 shares North Ophir at $9 per share.
10 shares Campton, E., at $9 per share.
20 shares Shawmut at $30 per share—b 30.
20 shares Golden City, O. R., (unassessible), $9¼ per share.
10 shares Golden City, O. R., (unassessible), at 9¼ per share.
10 shares Golden City, O. R., (unassessible), at 9½ per share.

ONE O'CLOCK SESSION.

10 shares Shawmut at $29½ per share—b 30.
20 shares Crystal at $4 per share.
10 shares Crystal at 3¾ per share.
10 shares Lady Bryan at $58 per share.
10 shares Lady Bryan at 60 per share—b 30.
10 shares Lady Bryan at 60½ per share—b 30.
10 shares Lady Bryan at 58 per share.
10 shares Lady Bryan at 58¼ per share.
10 shares Lady Bryan at 60¼ per share—b 30.
10 shares Lady Bryan at 58½ per share.
10 shares Lady Bryan at 60½ per share—b 30.
20 shares Lady Bryan at 58½ per share.
10 shares Lady Bryan at 61 per share—b 30.
10 shares Harmon at $24 per share.
5 shares Harmon at 25 per share.
15 shares Washington, H., at $20 per share.

Sales by the S. F. Stock and Exchange Board,.. .....$237,186 50
Sales by the S. F. B. of Brokers,..... 12,813 00

Total sales of the day, by both Boards,..... 249,999 50

Total sales of the week, by both Boards,.....$1,972,837,17

Gold in New York.

Saturday, January 23,..... 157
Tuesday " 19,..... 156½

Legal Tender Notes.

San Francisco, Friday January 22, ...66¼ per cent.

Brown's Bronchial Troches for Coughs and Colds.—A NEGLECTED COUGH, COLD, AN IRRITATED OR SORE THROAT if allowed to progress, results in serious Pulmonary Bronchial and Asthmatic Diseases oftentimes incurable. BROWN'S BRONCHIAL TROCHES reach *directly* the affected parts, and give almost immediate relief. For BRONCHITIS, ASTHMA, CATARRH, and CONSUMPTIVE COUGHS the Troches are useful. PUBLIC SPEAKERS and SINGERS should have the Troches to clear and strengthen the Voice. MILITARY OFFICERS and SOLDIERS who overtax the voice, and are exposed to sudden changes should use them. OBTAIN only the *genuine*. "Brown's Bronchial Troches" having proved their efficacy by a test of many years, are highly recommended and prescribed by Physicians and Surgeons in the Army, and have received testimonials from many eminent men. Sold by all Druggists and dealers in Medicine in the United States and most Foreign countries at 25 cts. per box.
Agents for California, REDINGTON & Co., San Francisco. 5-1m

Mr. Jarvis Jewett is our duly authorized advertising agent and collector in this city.

IMPORTANT TO MINERS.

MAGNIFYING GLASSES FOR EXAMINING QUARTZ.
MINING COMPASSES, WITH SIGHTS AND LEVELS.
BLOW-PIPES, GOLD SCALES.
POCKET COMPASSES, MAGNETS,
DRAWING INSTRUMENTS, in cases and separate pieces.
MARINE AND FIELD GLASSES.
EYE PROTECTORS. GALVANIC BATTERIES.
THERMOMETERS. BAROMETERS.

The Largest Assortment on the Pacific Coast for sale by
LAWRENCE & HOUSEWORTH, Opticians,
5v8-tf No. 637 Clay street, San Francisco.

JOHN DANIEL,
(SUCCESSOR TO O. GOM)
MARBLE WORKS,
No. 408 Pine street, bet. Montgomery and Kearny, San Francisco.
Mantels, Monuments, Tombs, Plumbers' Slabs, Etc.,
On hand and Manufactured to order.
☞ Goods shipped to all parts of the State. Orders respectfully solicited. 5v8-3m

O. BERGSON,
CARPENTER AND BUILDER,
No. 100 Leidesdorff Street,
Between Sacramento and California streets, San Francisco.
☞ All Orders for Jobbing carefully and punctually attended to.
5v8-tf

JAS. L. POND, Member Pacific B'd of Brokers.
C. S. CHAPIN, Member S. F. B'd of Brokers.
CHAPIN & POND,
STOCK BROKERS,
No. 726 Montgomery street, Up Stairs,
5v8-2m SAN FRANCISCO, CAL.

REMOVAL.
J. R. BEARD, STOCK BROKER,
MEMBER SAN FRANCISCO STOCK AND EXCHANGE BOARD,
HAS REMOVED HIS OFFICE TO
5v8-tf No. 707 Montgomery street, Brokers' Block.

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. THE MINING AND SCIENTIFIC PRESS PATENT AGENCY has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

IMPORTANT INVENTION!
THE SUBSCRIBER OFFERS TO THE PUBLIC HIS
Patent, Double-Action,
WOOL, COTTON AND HAY PRESS,
The cheapest, most effective and most economical Press in use for the above Purposes.

This Press acts by a combination of the three mechanical powers—the Screw, the Lever, and the Wedge.
Its cost is less than any other in use. It operates with less power, more speed, and occupies less space than any other.
To Shippers and Packers of Wool, Cotton, Hay, or any similar goods, or for packing in general, where compression is required, it will be found of great economic value.
It is many action in principle, and can be so constructed as to pack from one to four or more bales, at one and the same time.
The Inventor challenges competition with any other machine in use, employed for similar purposes.
The Patentee would make a liberal proposition to any suitable person, with small capital, to take an interest with him in the manufacture and sale of this machine, and for several others of equal importance, the details of which are now completed, and for the manufacture of which he is prepared to make contracts.
All communications or orders should be addressed to J. M. Parry, Patentee, at Grush & Co.'s, pattern and model makers, on Fremont street, between Mission and Market streets, San Francisco, where a model and drawing may be seen.
5v8-tf J. M. PARRY, Patentee.

VALENTINE'S DAY!
MONDAY,.....February 15, 1864.
VALENTINES in solid Rosewood and Mahogany Cases, with Lady's Watch, and with Lady's Pin and Ear Drops, from Tucker's Jewelry establishment.
VALENTINES of every conceivable variety: Valentine Stationery, Valentine Cards, Valentine Mottoes.
FIFTEEN new and Original California Comics; local, and to the point.
NEW CALIFORNIA Valentine writer, containing 126 original, comic and sentimental, on all subjects.
VALENTINES on all subjects, written to order, at short notice.
VALENTINES—Persons caricatured—pencil sketch—in the best style, at short notice.
APPLETON'S VALENTINE EXPRESS, with six horses, will deliver Valentines every hour in the day, in every part of the city.
D. E. APPLETON & CO.,
508 Montgomery street, Opposite Tucker's and Telegraph Office.

N. LOMBARD INGOLS,
Accountant and Mining Secretary.
NO. 10 GOVERNMENT HOUSE, CORNER OF WASHINGTON AND SANSOME STREETS, SAN FRANCISCO.
OFFICE OF THE
SANTA CRUZ PETROLEUM OIL WORKS,
GEM SILVER MINING CO., (REESE RIVER, N. T.,)
LAUREL G. & S. MINING CO., COPALA, SINALOA, MEX.

N. B. Mr. Ingols will pay particular attention to the adjustment of complicated accounts, Commercial and Incorporated Companies' Books, to drawing up Commercial writings and to Engrossing: legal or other documents with neatness and dispatch. An experience of more than twenty-five years in every branch of his profession is a guaranty of his practical and thorough acquaintance with its duties. He has the privilege of referring to some of the leading mercantile houses and legal practitioners on the Atlantic and Pacific sides, for testimony of his business and clerkly abilities. jlff.

San Francisco Stock and Exchange Board.—Prices Bid and Asked.

WASHOE STOCKS.	FEET.	SHARES.	VAL.	Saturday. BID.	Saturday. ASKED.	Monday. BID.	Monday. ASKED.	Tuesday. BID.	Tuesday. ASKED.	Wednesday. BID.	Wednesday. ASKED.	Thursday. BID.	Thursday. ASKED.	Friday. BID.	Friday. ASKED.
Ophir	1,400	16,800	300	1,530	1,550	1,500	—	1,450	—	1,470	1,500	1,450	1,500	1,450	1,500
Gould & Curry	1,200	4,800	500	4,925	4,975	—	49,50	—	—	—	4,940	—	4,950	4,500	4,950
Savage	800	800	2,000	3,000	3,150	3,000	—	30.50	3,200	—	3,500	3,200	3,500	3,275	3,350
Chollar	1,400	5,600	800	350	365	270	285	286	290	307½	335	302	310	330	340
Potosi	1,400	2,800	500	1,150	1,200	1,170	1,200	1,150	1,200	1,160	1,250	1,150	1,350	1,175	1,275
Hale & Norcross	400	800	500	800	900	—	875	—	875	—	850	—	800	—	850
Sierra Nevada	3,000	3,000	500	—	—	75	90	80	87½	80	85	76	80	75	80
Daney	2,000	800	60	65	70	66	100	66	74	—	—	60	—	—	—
Burning Moscow	4,100	4,100	500	110½	114	110	110	110¼	112½	100	103	102	150	100	102¼
North Potosi	2,000	2,000	250	32	45	38	—	38	—	20	44	56	62½	42	44
Charles Cany	1,800	1,800	30	10	—	10	11½	10	12	47½	55	10	—	—	—
Iowa	1,200	1,200	1,000	—	50	—	—	—	50	30	60	—	—	—	—
El Dorado	1,600	1,600	500	51	52	55	55	55	—	53	55	53	—	51	52½
Norton	1,600	1,600	50	7½	8	—	8	—	14	9	12	10	14	9	14
Burnside	2,800	2,800	500	15½	16	14½	17	15	17½	15	17	17	18½	16½	18
Adriatic	—	—	—	11	12	11½	12	9	12	—	11	10	11	10	12
Pride of the West	1,400	1,400	100	90	105	—	110	96	100	95	100	90	100	90	102½
Imperial	184	4,000	500	—	125	115	125	120	135	130	—	140	145	148	152½
Crown Point	600	1,200	100	—	—	—	1,050	—	—	—	—	—	1,500	—	1,500
Manhattan	—	—	—	—	8	—	4	—	4	—	4	—	7	—	—
Seneca	—	—	—	—	—	6	10	—	—	—	10	—	20	10	15
Mt. Davidson tun'l	1,000	1,000	200	2	4	1	3	2	3	2	2¼	2¼	—	2¼	4
Hudson	—	—	—	—	6	—	—	—	6	—	—	—	8	—	—
Bajazet & G. Era	4,000	4,000	300	26	40	27½	—	32½	35	35	39	—	—	—	—
Cedar Hill tunnel	—	1,000	100	—	—	—	1½	—	1¾	—	1½	—	2	—	—
Gold Hill Qu'tz Mill	—	—	—	—	—	—	—	—	300	—	300	—	—	—	—
ESMERALDA.															
Wide West	1,400	1,400	2,600	36	42¼	39	40	—	49	35	45	38	39	36	40
Antelope	1,200	1,200	500	—	265	—	250	—	—	243	290	245	300	250	260
Esmeralda	1,600	1,600	1,000	—	—	—	—	—	—	—	—	—	—	—	—
Real del Monte	4,400	4,400	400	140½	145	133	134	164	167½	183	187½	168	169	157½	160
Utah	1,600	1,600	250	22	—	21	25	—	—	21	30	21	23	20	21
Silver Hill	3,000	3,000	500	14	19	14	15½	12¼	15	14	15	12½	14	13	—
Nevada	600	1,200	250	—	—	2	—	—	—	2	—	2	20	—	—
Falls of Clyde	6,000	6,000	100	—	3	—	3	—	2½	—	2½	—	100	—	105
Bamboo	600	600	500	—	—	—	80	—	—	—	—	—	15	15¼	20
Crockett	—	—	—	15	25	—	25	14	20	—	20	—	—	—	—
Federal Hope	—	—	—	—	—	—	25c	—	—	—	5	—	—	—	—
Jenny Lind	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
COSO.															
Josephine	9,600	4,800	2,500	1	—	1¼	2	—	2¼	—	—	—	—	—	—
Willow Springs	2,700	2,700	100	—	—	—	—	1	2¾	—	3	—	2½	—	—
Coso	2,600	3,600	600	—	—	4	8	—	8	—	—	—	8	—	8
COPPER.															
Napoleon	—	—	—	—	—	47	—	47½	70	47½	53	43	45	—	—
Josephine	—	—	—	—	—	3	11	3	8	—	—	—	—	—	—
CALIFORNIA.															
Laurel Hill	—	—	—	—	—	3	5	—	—	—	4	—	5	6	—
Rhodes Diggings	—	—	—	—	—	—	10	—	—	—	7	—	—	4	5
Fellowes	2,500	2,500	100	—	—	—	—	—	—	—	—	—	—	—	—
Maxwell	—	—	—	—	—	—	80	—	—	—	80	—	85	—	—
Rock River	—	—	—	—	—	—	—	—	—	—	—	—	60	—	—
Eureka	—	—	—	—	—	—	—	—	—	32½	40	—	—	—	40
HUMBOLDT STOCKS.															
De Soto	1,980	1,980	100	—	—	—	27	—	26	—	30	—	22	—	—
Great Basin	—	—	—	—	—	—	80	—	—	—	80c				

VARIOUS CHIPPINGS.

A terrible accident recently occurred at Niagara Falls by which one unfortunate individual lost his life. A scow, on board of which were five men, unfortunately became unmanageable, got into the current, when the men all jumped overboard and struck out for the shore. One was unable to make headway against the current and went over the falls.

A Stable of the Overland Stage company, about nine miles this side of Salt Lake City, was destroyed by fire on the 13th inst. It took fire from the caudle of one of the employees.

The small pox is prevailing to an alarming extent at Gold Flat, near Nevada.

A theatre is to be opened at Reese River in the Spring.

A line of stages has recently been started between Virginia City, Gold Hill and and American Flat. Two trips a day will be made.

New potatoes, green peas and fresh tomatoes are among the luxuries now being enjoyed in this market.

The California State Telegraph Co. paid a dividend of one per cent. on the 15th inst.

The majority against the Nevada State Constitution was about 5,000.

The Washoeites must be great consumers of lager beer, as the ninth lager beer brewery, in and about Virginia City, is in course of construction.

The famous natural bridge, in Virginia, is advertised for sale.

The Arizona Exploring Expeditiou, at Washoe already numbers about forty members. It is desired to enroll one hundred and fifty names before starting into the wildcruess.

Rev. John Francis, of Oakland, was agreably surprised a few evenings since by receiving from his friends a gold watch and sixty dollars.

The new State of Western Virginia has been divided by her Legislature into townships, like other free States, and unlike the slave States, which have no civil divisions below counties. She has also adopted a comprehensive free school system.

There is an American railway car-line in operation between the Place de la Concorde. Paris, and Sevres.

The city railroad companies in Philadelphia have advanced their fare to eight cents.

A baker named Grimeaux, living at Rich Bar, east branch North Fork Feather river, was drowned on the 16th inst.

There are 39,700 boys, and 38,355 girls, between the ages of 4 and 18, in California.

A patient in the City Hospital, St. Louis, died while the surgeons were administering chloroform against his remonstrance.

The estimate clothing for the army for the next fiscal year is $58,000,000.

About two-thirds of the entire taxable property of the Confederate States consists of land and slaves.

The Mexican affair has thus far cost France 210,000,000 of francs.

The New York Central Railroad is 555 miles long. Such an affair would be the pride of a little place like Europe, but it is nothing for America.

The twentieth century is likely to dawn upon the United States with a population of 100,000,000.

The Mississippi River Pilots are now getting from $2,600 to $3,000 per year.

The New York druggists have organized a drug exchange.

A man sat down on the sidewalk in Quebec recently and froze to death, dozens of people passing all the while.

Stages run from Los Angeles to Colorado in three and a half days.

The people of Oroville are preparing for a grand celebration of the completion of the California Northern Railroad.

The number of California soldiers now in the employment of the Government, is fifty-four hundred.

One of the Virginia companies is styled 'The Orphan Boy and Sweet Alice consolidated.' A sentimeutal company that.

The Church of St. Aphrodisc. Beziers, France, was recently visited by lightning, which did little damage, but lighted all the caudles on the alter.

At the present time there is not a cotton spindle in motion in Lowell, Mass.

Miscellaneous Advertisements.

MINERS' FOUNDRY
—AND—
MACHINE WORKS,
First street, between Howard and Folsom streets,
SAN FRANCISCO.

EVERY DESCRIPTION OF IRON AND BRASS MACHINERY, the **Best** and **Most Economical**, manufactured in the State of California, will be furnished with dispatch at the Miners' Foundry and Machine Works, as:

Steam Engines and Boilers, Flour, Saw and Quartz mill machinery, Mining Pumps, Amalgamators, Retorts, Etc., Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections, designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities will be afforded ample facilities, free of cost.

All parties desiring accurate and highly finished drawings and Superior Machinery, at most reasonable rates are cordially invited to call before contracting elsewhere.

HOWLAND, ANCEL & KING.
San Francisco, February 23, 1863. tf.

PALMER, HANSCOM & CO.,
GOLDEN STATE IRON WORKS,
No. 19, First Street, San Francisco,
Furnish Castings and Machinery of all kinds,
Also Genuine White Iron Shoes and Dies.
PALMER, HANSCOM & CO.

To Quartz Miners.

KNOX'S IMPROVED AMALGAMATING PAN
WITH PALMER'S PATENT STEAM CHEST.

THE ABOVE COMBINATION SECURES THE MOST COMPLETE amalgamation of the precious metals of any process now known. By it steam is introduced in the most effective and economical manner, while it is peculiarly adapted to the catching of floating gold and silver, known to be otherwise lost. Made exclusively by
PALMER, HANSCOM & CO.,
GOLDEN STATE IRON WORKS,
Nos. 19 and 21 First Street, San Francisco.

The public are informed that Letters Patent have been granted the undersigned upon Steam Chest False Bottoms for the inside of Amalgamating Pans or Tubs, and are cautioned against making, buying, using or selling the same without his consent.
tf W. A. PALMER.

Sacramento Iron Works.

I STREET, BETWEEN FIRST AND SECOND STREETS, SACRAMENTO.

GOSS & LOMBARD.....Proprietors.

MANUFACTURERS OF STEAM ENGINES, MACHINERY FOR Saw, Flour and Quartz Mills, Horse Powers, Windmills, Car Wheels, Suction and Force Pumps, Cast Iron Rifles and all kinds of House Castings, at reduced prices. Gas pipe of all sizes, and all kinds of Brass and Iron Steam Fittings, with Hemp and Rubber Packing, constantly on hand. Wrought Iron Work and all kinds of Brass Castings done to order.

We are the Sole Agents in this State for the celebrated Worthington Pump, an assortment of which we keep constantly on hand. We have just received from the East a fine assortment of Cast Iron Fence Patterns, suitable for yards, balconies, cemetery lots or graves. We shall continue to do our work in the best manner and at the LOWEST CASH PRICES, hoping thereby to receive a just share of public patronage. 1-3m

JOHN P. GALLAGHER.....JOSEPH H. WEED.
GALLAGHER & WEED,
BRASS AND BELL FOUNDRY
And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING, DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, MADE to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks, also brass Padlocks and Shop Locks of various patterns, on hand and made to order.
☞ Particular attention given to casting Rudder Braces and Ship Work in general.
☞ All Jobs promptly attended to.—Prices moderate. ☜
No. 125 First Street, opposite Minna, next door to Pacific Foundry.
[Removed from Oregon street, between Front and Davis.]
j2tf

LEWIS COFFEY. J. S. RISDON.
LEWIS COFFEY & RISDON,
Steam Boiler & Sheet Iron Works.

THE ONLY EXCLUSIVELY BOILER MAKING ESTABLISHment on the Pacific Coast, owned and conducted by Practical Boiler Makers. All orders for New Work, the repairing of Old Work, executed as ordered, and warranted as to quality.

Old Stand, corner Bush and Market Streets. Opposite Oriental Hotel, San Francisco, Cal.

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Steam Engine Builders and Boiler Makers,
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PUMPING, HOISTING, MINING AND QUARTZ-CRUSHING MAchinery. Shoes and Dies of the hardest Iron. Russia Iron Punched Screens, Steamboat Machinery, Saw, Flour and Sugar Mills. High and Low Pressure Boilers of all styles. Jonval and other Turbine Water Wheels with latest improvements.
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MOYNIHAN & AITKEN,
BOILER MAKERS AND SHEET IRON WORKERS,

N. B. All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission, between Beal and Fremont Sts., San Francisco.
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WANTED,
Gold Quartz suitable for Cutting Jewelry.
By **FRONTIER & DEVIERCY.**
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A. S. HALLIDIE & CO.,
WIRE ROPE MANUFACTURERS.
Established 1857.
Office, No. 412 Clay street—Works, North Beach,
SAN FRANCISCO.

After seven years' use throughout the State of California and the Pacific Coast generally, we can confidently recommend Wire Rope for
HOISTING FROM DEEP MINES,
GUY ROPES FOR DERRICKS, &c.,
STANDING RIGGING FOR SHIPS,
FERRY ROPES FOR FERRIES,
SASH CORD FOR WINDOW SASHES,
ETC., ETC., ETC., ETC., ETC., ETC.

It being Cheaper, Stronger, Lighter and More Durable than any other kind of Rope, and not stretching or shrinking by atmospheric changes.

MINING COMPANIES, by using it for Hoisting Purposes, save 66 per cent. on their outlay for other ropes.

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For fencing large parcels of land—permanently, economically and expeditiously. Manufactured in any length desired. Pamphlets, containing weight, strength and price, forwarded free on application to the Manufacturers.

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We are prepared to erect, of any span and capacity, and take pleasure in referring those interested to the many structures of this kind built by us in California, Oregon and British Columbia, of span from 200 to 400 feet. 3-3m

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The necessity of a proper book for keeping the Stock and Assessment accounts of Corporations has long been very much needed. One that would combine economy and simplicity, and would not require the services of an experienced book-keeper to keep the accounts correctly. CROCKER'S STOCK AND ASSESSMENT LEDGER has met this requirement; we have submitted it to several Secretaries of corporations, and they acknowledge that the plan is admirable, and just what has long been wanted. The printed headings are a perfect explanation of the manner of keeping it; and any person, whether they understand book-keeping or not, cannot make an error in the accounts. The Stock and Assessment accounts are so arranged that the Secretary can in a moment tell how any stockholder's account stands, both in regard to Stock and Assessments. He can also, with the greatest case, trace any certificate, through any number of transfers, to the original one issued. It saves a great amount of labor, as it does not require one-fourth the writing of the ordinary method. It dispenses entirely with the old style of Stock Ledger, Stock Journal and Assessment Book, all three of which Secretaries have heretofore been obliged to keep, condensing the whole in one book. To a person who is Secretary of several companies, this book will prove invaluable, and we feel no hesitation in guaranteeing satisfaction to those who may order them. Specimen sheets sent to those who desire to examine it. The books are ruled with one or two accounts to the page. State which is preferred.

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Pacific Mail Steamship Company.

THE FOLLOWING STEAMSHIPS WILL BE DISPATCHED FROM SAN FRANCISCO IN THE MONTH OF FEBRUARY, 1864.
Feb. 3—ST. LOTIS,.....Wm. H. Hudson, Commander.
Feb. 13—CONSTITUTION,.....J. T. Watkins, Commander.
Feb. 23—GOLDEN AGE,.....Wm. F. Lapidge, Commander.
From Folsom street Wharf, at nine o'clock A. M., punctually.

FOR PANAMA.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company.
A. B. FORBES, Agent P. M. S. Co.,
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People's Opposition Steamship Line.
—FOR—
NEW YORK, VIA PANAMA.
Great Reduction in Rates!

The new, fast and Splendid Steamship
AMERICA,
THOMAS H. MORTON.....Commander,
Will be despatched for Panama on WEDNESDAY, February 3d, 1864, from Mission street Wharf, San Francisco, at 9 o'clock A. M., connecting, via Panama Railroad at Aspinwall, with the steamship
Illinois (2,500 Tons) for New York.

Passengers are landed immediately on arrival at Panama, by the Railroad Company's Steamboat. The Company have also wharf facilities at Aspinwall. A Baggage Master will be sent on each steamer. For further information or passage, apply to
3. I. K. ROBERTS, Agent,
407 Washington street, opposite Postoffice, S. F.

WHEELER'S
Amalgamating and Separating Pans

IT IS ACKNOWLEDGED BY ALL WHO HAVE EXAMINED THE principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.

The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metal arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the triturating, this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.

Where these Pans have been introduced and operated by the side of others on sands from the same vat, the Wheeler Pans have uniformly gained a large percentage of metals, over its competitors, as well as a still larger percentage in the amount of work performed.

*** These Pans may be seen in daily operation at the Miners' Foundry, on First street, San Francisco, where all interested are invited to call and examine for themselves.
no16-tf ZENAS WHEELER.

W. W. HANSCOM,

Steam and Mechanical Engineer. Designs furnished, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc., etc. Agent for McKenzie's Patent Cupola and Blower.

At the Golden State Iron Works,

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Maker of Models for Inventors.

MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.

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Drawings of Models made for parties applying for patents at Washington or London. mar23-tf.

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HARRISON'S

California Lift and Force Pump,

WITHOUT VALVES OR PACKING,

Suitable for Mines, Fire Engines, Wrecking or Irrigating. This is the Cheapest, Lightest and most Durable, and least liable to get out of order of any Pump yet Invented.

ALL SIZES.

Capable of throwing from ONE HUNDRED to FIVE THOUSAND Gallons per minute. For sale by

C. H. HARRISON, Phœnix Oil Works,
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PROCESS OF SILVER AND GOLD EXTRACTION, BY GUIDO Kustel, Mining Engineer and Metallurgist, former manager of the Ophir Works, &c.; 350 pages octavo illustrated.

This admirable work has met with the highest commendations from the Press and Scientific men, as a clear and able exposition of the science as practised in California and Nevada Territory. It is written for the people in good plain English and finely illustrated.

Price—post paid—Cloth $6; Sheep $7.

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Booksellers, Importers and Publishers,
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no30-tf

Mining Laws and Forms

JUST PUBLISHED, BY H. H. BANCROFT & CO., BEING A compilation of the Statutes of this State relating to Mining Corporations, Assessments, etc., with a digest of decisions of the Supreme Court and Forms of the Incorporation of Companies. Compiled by H. B. Congdon. 12mo., flexible cloth. $1,50. For sale at all the Bookstores. sep14-tf

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HATTERS,

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TO OUR FRIENDS AND THE PUBLIC GENERALLY:—HAVING purchased the entire interest of MESSRS. FISHERS & CO., in this city, we shall, on the 1st. day of May assume the management of the

HAT EMPORIUM

so long conducted by that firm.

MR. WILLIAM H. MEAD, for the last seven years salesman with Messrs Fisher & Co., respectfully solicits a continuance of the patronage so long and liberally bestowed upon the old House, feeling entire confidence in our ability to suit in every particular.

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J. P. LeCount & Co.,

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Equal to Lithograph, for $25.

Stock Ledgers, Transfer Books,

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AT LOW PRICES.

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HEYER & CO.,

IMPORTERS OF

AMERICAN AND EUROPEAN FANCY GOODS,

TOYS AND MUSICAL INSTRUMENTS;

ALSO, SOAPS, PERFUMERY, HAIR AND TOOTH BRUSHES, Port Folios, Portmonnaies, Ladies' Bags, Photograph Albums, Cutlery, Willow and Pariun Ware, Children's Carriages, etc. Our Stock of Violin, Guitar and other Strings is very large. Our foreign Goods are selected by one of the firm, and the American by the Boston House (established in 1824.) We have the sole Agency for

HALLET & DAVIS' BOSTON PIANOS,
SMITH & BROS' HARMONIUMS, AND
TREAT & LINSLEY'S MELODEONS.

The Hallet & Davis Pianos are each supplied with their Patent Suspension Bridge, which is a decided improvement. It gives a full and clear vibration in the upper octaves, producing a quality of tone unequalled in firmness and purity. Our Melodeons and Harmoniums are of the best quality, and warranted to give satisfaction.

3m.

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C. A. JAMES,.....Proprietor.

THE ABOVE HOUSE IS A FIRE-PROOF BUILDING, WITH Granite Front, and kept on the European Plan, with board and lodging by Day or Week to suit the convenience of our Patrons.

The rooms are handsomely Furnished, supplied with Patent Spring Beds, and Hair Mattrasses, affording very superior accommodations for families or single persons.

The Table is supplied with the best the market affords at prices to suit the times.

The Rail Road House Coach is always in attendance at the Steamers to convey passengers and their baggage to the House **Free of Charge.** **The House is open all Night.**

j2-tf

INTERNATIONAL HOTEL.

Jackson Street.....San Francisco.

[A FEW DOORS ABOVE MONTGOMERY.]

Fire-proof Brick building. Most convenient to the Steamer's Landing, Business sts., and places of Amusement. Open all night. City Railroad Cars Pass the Door.

Reduction in Prices.

FINE BATHING ROOMS ATTACHED TO THE BARBER SHOP, Warm and Cold shower Baths Free to Guests. Thoroughly renovated and newly furnished this Spring. Every room opens to the Light and Air. Each room is furnished with a first quality Patent spring Bed and Hair mattrasses. The International offers to guests the greatest number

AND BEST FURNISHED FAMILY ROOMS;

And SETS AS GOOD A TABLE as any House in the City.

I am determined that the INTERNATIONAL shall be the most comfortable, best regulated, and in all respects superior to any like establishment in the State, and shall aim to merit a continuance of the popular favor it has enjoyed heretofore. It will be conducted on Temperance Principles.

1-tf F. E. WEYCANT, PROPRIETOR.

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— OF —

MEXICAN MINING STOCKS,

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OFFICE OF THE PENA AND LA MARRONENA SILVER MINing Companies, San Antonio District, Lower California.

All persons are invited to call and examine Ores from the above mines.

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REYNOLD'S

Patent Cut-Off and Governor,

For Steam Engines.

127 of these Invaluable Machines

ARE NOW IN USE

In California and Nevada Territory, giving a perfectly regular motion and

Saving 20 to 75 per cent of the Fuel.

Steen's Improved Governor

IS THE CHEAPEST, SIMPLEST AND QUICKEST TO ACT AND least liable to get out of order of any Governor in use. It can be seen in operation at the Golden State Iron Works, at the Stone Breaker, foot of Montgomery Street and at the Sugar Refinery, 8th Street, San Francisco.

Steam Engines, Boilers, Pipes,

Hydraulic Presses, Shafting, Pulleys, Etc., Etc., bought and sold the best market rates.

Anti-Incrustation Powder,

A sure remedy for Scale in Steam Boilers, without injury to the Iron. In use for the past EIGHT years.

MACHINERY MADE AND REPAIRED.

—REFER TO—

Sugar Refinery, San Francisco,
Cottell & Co., San Jose,
L. A. Booth, Esq., Virginia City,
And 2,000 others in the United States.

E. T. STEEN.

1-tf Nos. 37 & 39 Fremont Street and 42 & 44 Beal Street.

Owen's River Canal Company.

CAPITAL STOCK.....$1,000,000.

10,000 Shares.....$100 per Share.

A PORTION OF THIS STOCK IS NOW OFFERED TO THE PUBlic, and recommended as an investment.

Full Paid and Unassessable Stock,

Also Assessable Stock, can be obtained of A. J. DOWNER & CO., the authorized Agents of the Company,

406 Montgomery Street.

President.....R. S. WHIGHAM.
Secretary.....W. FISK HITCHCOCK.
Treasurer.....MONTGOMERY GODLEY.
Superintendent.....WILLIAM FLEMING.
Engineer.....J. E. CLAYTON.

TRUSTEES:

R. S. WHIGHAM, formerly of Whigham's Mill,.....Nevada City.
WILLIAM FLEMING.....of San Francisco.
SPIER RIDDEL.....Paying Teller of Parrott & Co's.
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Office of the Company 328 Montgomery Street. jltf

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Stock Brokers,

No. 630, Montgomery Street,.....San Francisco.

OPHIR SILVER MINING STOCK,
COULD & CURRY MINING STOCK,
CHOLLAR MINING STOCK,
CALIFORNIA STEAM NAVIGATION COMPANY'S STOCK,

BOUGHT AND SOLD.

jltf.

Owen's River Canal Company.

FOR SALE, FOR ACCOUNT OF THE COMPANY, 7,000 SHARES of the above stock, at $1 per share. It is confidently presented to the publicas the best investment, for the price, now offered in this market.

Office of the Company No. 328 Montgomery street. 1tf

Removal.

OFFICE OF THE PACIFIC METALLURGICAL OFFICE IS REmoved to 509 Sacramento street. Having enlarged our works at North Beach, we are now enabled to reduce from 10 to 15 tons of Silver or Gold rock per day.

Gold and Silver ore, and Sulphuret Assayers', or Silversmiths' sweepings reduced or purchased.

COPPER ORES—Highest market rates advanced in cash, for Shipments. S. C. BRADSHAW, Agent,

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HEPBURN & PETERSON'S.

AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION OF THE Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos. 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machines now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

nov8 3m* HEPBURN & PETERSON.

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418 and 420 Jackson Street [a few doors below Montgomery,] SAN FRANCISCO, CALIFORNIA.

THIS FINE, FIRE-PROOF BUILDING OFFERS MANY ADVANtages to the traveler for convenience. It is only half a block from the Post Office and Custom House, and about the same distance from the principal places of Amusement.

The City Railroad Cars pass the Door. The House is conducted on Temperance Principles, which secures to our guests quiet.

The prices for board and Rooms are very moderate—by the day, meal or week. WE SOLICIT A CALL FROM ALL.

F. E. WEGANT, Proprietor.

For the accommodation of my many guests I have taken and refurnished the INTERNATIONAL HOTEL, and will carry on the two houses in connection, so that travelers wishing to put up at either house, may take the Tremont or International Hotel Coach and be taken to either House with their baggage, FREE.

tf. F. E. WEGANT.

Mining Notices.

Table Mountain Copper Mining Company, Office 523 Montgomery street, San Francisco, January 16, 1864.—Notice is hereby given to the stockholders of the Table Mountain Copper Mining Company, that an assessment (No. –) of one dollar ($1) per share was this day levied on each and every share of the capital stock of said Company, payable immediately, in U. S. gold coin, to the Secretary, or to J. M. PIKE, Superintendent, at Copperopolis. By order of the Board of Trustees.

4v8-1m M. G. ELMORE, Secretary.

Bankers Gold and Silver Mining Company, Gold Hill District, Storey county, N. T.—Notice is hereby given that the Trustees of the Bankers Gold and Silver Mining Company have this day levied an assessment of fifty cents per share on each and every share of the capital stock of said Company, said assessment payable immediately, in gold coin, to the Secretary, at the office of the Company, No. 620 Washington street, or to R. C. O'NEILL, Superintendent, at Gold Hill, N. T. W. AUGUSTUS KNAPP, Sec'y.

January 18th, 1864. 4v8-1m

Prima Donna Gold and Silver Mining Company, Devil's Gate District, N. T.—Notice is hereby given, that the Board of Trustees of the Prima Donna Gold and Silver Mining Company, at a meeting of said Board, held January 19th, 1864, levied an assessment (No. 5) of fifty cents on each and every share of the capital stock of said Company; said assessment payable immediately, in gold coin, to the Secretary, at the office of the Company, No. 620 Washington street, Room No. 3.

4v8-1m H. B. CONODON, Secretary.

Zenith Gold and Silver Mining Company.— Office, 528 Montgomery street, San Francisco, January 8th, 1864.—At a meeting of the Board of Trustees of the Zenith Gold and Silver Mining Company, held this day, January 8th, 1864, an assessment of $1 per share was levied upon each and every share of the assessable stock of said Company, now due and payable immediately, in United States gold coin, to the Secretary, at the office of the Company. By order of the Board of Trustees.

3 M. G. ELMORE, Secretary.

Verona Gold and Silver Mining Company.— San Francisco, January 12th, 1864.—Notice is hereby given, that at a meeting of the Board of Trustees of the Verona Gold and Silver Mining Company, held this 12th day of January, 1864, an Assessment of Fifty (50) cents per share was duly levied on each and every share of the Capital Stock of said Company, due and payable immediately, in United States gold coin, to the Secretary, at his office, No. 57 Government House, or to G. L. Church, Superintendent, at Austin, Reese River. (3-3t) WM. POOLER, Sec'y.

Carrie Copper, Gold and Silver Mining Company.— The First Annual Meeting of the Stockholders of the Carrie Copper Gold and Silver Mining Company, will be held at the Company's office, No. 523 Clay street, on MONDAY, February 1st, 1864, at 3 o'clock P. M., for the election of officers and the transaction of such other business as may come before it. (1-1m) B. W. MUDOE, Sec'y.

Puritan Gold and Silver Mining Company, (Devil's Gate District, N. T.)—Notice is hereby given that the Trustees of the Puritan Gold and Silver Mining Company have this day levied an assessment of one dollar on each and every share of the capital stock of said company; said assessment payable immediately in gold coin to the Secretary, at the office of the company, No. 623 Washington street. H. B. CONGDON, Secretary.

December 26, 1863. 1-m

Conqueror Gold and Silver Mining Company.—Office southeast corner of Front and Sacramento streets, San Francisco December 29th 1863—At a meeting of the Trustees of the Conqueror Gold and Silver Mining Company held this day, an assessment of Twenty-five (25c.) Cents per share on each and every share of the capital stock of the said Company was levied, now due and payable immediately in U. S. gold coin, to the Secretary, at the above named office. By order of the Board of Trustees.

j2-1m WM. W. KNICHT, Sec'y.

Enterprise Copper Mining Company.—Office 528 Montgomery street, San Francisco. At a meeting of the Board of Trustees of this company, held December 12th, an assesment of ten cents per share was levied, payable immediately, and another assessment of eight cents per share, payable January 1st, 1864, and another assessment of eight cents per share payable February 1st, 1864, all payable in U. S. gold coin, to Thomas S. Levy, the Treasurer, at Lincoln, Placer county, or to the Secretary, at the office of the Company. By order of the Board of Trustees.

M. G. ELMORE, Secretary.

Occidental Copper Mining Company, Office northeast corner Pine and Montgomery streets, San Francisco, December, 29th, 1863.—An assessment of Thirty Cents per share was this day levied on each and every assessable share of the capital stock of the Occidental Copper Mining Company, payable immediately to the Secretary, in U. S. gold coin. By order of the Board of Trustees

EDW. BARRY, Sec'y.

Fair Haven Gold and Silver Mining Company, Cortes District, Reese River.—At a meeting of the Trustees of the above Company, held Dec. 29th, 1863, an assessment of Seven Cents per share was duly levied and made payable immediately at the Office of the Secretary, 400 Front Street.

W. H. DANIELS, Secretary.

Hudson Gold and Silver Mining Company, (Devil's Gate District,) office No. 804 Montgomery street, San Francisco, December 19th, 1863.—At a meeting of the Board of Trustees of this Hudson Gold and Silver Mining Company, held this day, December 19th, 1863, an assessment of One Dollar per share was duly levied on each and every share of the Capital Stock in said Company, due and payable immediately, in United States gold coin to the Secretary, at the office of the Company, in this City, or to A. W. Hale, Esq., Superintendent, at Virginia City.

j2-1m I. LAWRENCE POOL, Sec'y.

Sarah Francea Gold and Silver Mining Company, Markleville.—Assessment No. 7. of Fifteen Cents per share, was levied by the Board of Directors, December 28th, 1863 payable to FRANCIS V. SCUDDER, Sec'y.

Rooms of the Company, 9 and 10, northeast corner of Montgomery and Pine streets. j2-1m

Zenith Gold and Silver Mining Company, Office 530 Jackson street, San Francisco, January 6th, 1864.—Notice is hereby given, that, in accordance with the laws of the State of California, there will be sold at public auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on MONDAY, February 8, 1864, at 11 o'clock A. M., to the highest bidder for cash, in United States gold coin, so many shares of the capital stock of the Zenith Gold and Silver Mining Company, standing in the names of the following shareholders, as will be necessary for the payment of three assessments duly levied by the Board of Trustees, as follows, to wit: Assessment No. 1, Twenty-five cents per share, levied September 24, 1863; Assessment No. 2, Twenty cents per share, levied October 13, 1863; Assessment No. 3, Thirty cents per share, levied December 2, 1863, together with costs of advertising and expenses of sale, unless said assessments, with accruing charges, are previously paid:

Names.	No. Ass'ts	Shares.	Amount.
D. C. Park	1 2 3	30	$26 50
J. W. Sheppard	2 3	20	10
R. W. Hent	2 3	50	25
W. Wilmot	2 3	65	32 50
E. Franklin	2 3	50	25
W. S. Lyons	2 3	45	23 50
H. M. Beers	2 3	10	5
L. L. Lewis	2 3	20	10
W. Carey Jones	2 3	5	2 50
H. D. Reynolds	2 3	2	1
S. D. Scofield	2 3	10	5
J. P. Bell	3	15	7 50
W. Osborn	3	85	25 50
J. G. Perkins	3	30	9
A. Buctell	3	4	12
Geo. C. Moon	3	87	26 10
Wm. H. Knapp	3	12	3 60
Wm. B. Maxson	3	22	6 60
H. G. Patridge	3	10	3
C. Wilson	3	6	1 50
E. N. Stratton	3	5	1 50
A. Harris	3	84	25 20
Gilman Reed	3	5	1 50
E. N. Longfellow	3	10	3
J. M. Depass	3	10	3
C. Harley	3	23	6 90
J. Thompson	3	5	1 50
C. H. Crowo	3	12	3 60

By order of the Board of Trustees.

The office of the Zenith Gold and Silver Mining Company has been Removed to No. 528 Montgomery street.

3-td M. G. ELMORE, Secretary.

Table Mountain Copper Mining Company.—Office, 528 Montgomery street, San Francisco. Notice is hereby given that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Table Mountain Copper Mining Company, there will be sold at public auction at the office of the Company, San Francisco, on FRIDAY, February 12th, at 11 o'clock A. M. of that day, to the highest bidder, in cash, for United States Gold coin, so many shares of the capital stock of said Company standing in the names of the following Shareholders as will be necessary to pay assessment No. 3, duly levied thereon and now being due and unpaid, together with the expenses of advertising and sale—to wit:

Name.	No. cert.	No. Shares.	Amt.
Samuel Geddes	7, 28, 30, 31, 32	67	257
N. H. A Mason	143	133	133
R. J. Vandewater	136, 156	34	24
John Holman	140	4	4
William Boyer	210	10	10
Levi Dress	205	5	5
Henry Van Vleck	187	25	25

By order of the Board of Trustees. M. G. ELMORE, Sec.

San Francisco, January 11, 1863.

Great Central Mining Company.— Notice is hereby given that by order of the Board of Trustees of the Great Central Mining Company, pursuant to the By-Laws thereof and the laws of the State of California, there will be sold at public auction, on WEDNESDAY, February 10, 1864, to the highest bidder, at the auction rooms of Jerome Rice & Co., 327 Montgomery St., San Francisco, so many shares of said Company standing in the names of the following persons as will pay the amount due for assessments, together with costs of advertising and sale:

Names.	Shares.	No. Assts.	Amount.
Jas S Trimble	100	1 2	$50 00
G W Mclone	10	2	2 50
M Devlin	20	2	5 00
W C Smith	5	2	1 25
P H Lovell	25	2	6 25
E H Rockwell	50	2	12 50
Max Strobel	600	1 2	300 00
Jas P Newcomb	100	1 2	50 00

2-1m H. C. KIBBE, Secretary.

Enterprise Copper Mining Co.—Office, 528 Montgomery St., San Francisco. Notice is hereby given that there will be sold at the office of the Enterprise Copper Mining Company, on SATURDAY, January 30th., 1864, at 10 o'clock, A. M., so many shares of the Capital Stock of said Company as will be necessary to pay all assessments due and delinquent, December 10th., 1863, standing in the names of the following parties:

	Share.	Am't. due.
William Harris	400	$100 00
J. P. Dameron	100	20 00
John M. Cannon	25	7 50
Thomas Donahoe	15	4 50
John Cochran	25	7 50
G. W. Mclone	01	3 00

By order of the Board of Trustees. M. G. ELMORE, Sec.

1m

Mount Eden Mining Co.—Notice is hereby given, that the Board of Trustees of the Mount Eden Mining Company, at a meeting held January 2d, 1864, levied an assessment of One Dollar on each and every share of the Capital Stock of said Company, said assessment payable immediately in gold coin to the Secretary, at the office of the Company, No. 620 Washington street, Room No. 3. H. B. CONODON, Secretary.

San Francisco, January 16, 1864. 3-5t

Scorpion Silver Mining Company.—Notice is hereby given, that by a resolution adopted by the Board of Trustees of the Scorpion Silver Mining Company, at a meeting held on this day, an assessment of twenty-five (25c.) cents was levied upon every share of the Capital stock of said company, to be paid in gold coin of the United States, on or before the 29th day of January, 1864, at the office of the company, No. 617 Clay street.

W. H. MARTIN, Sec'y.

San Francisco, December 29, 1863. j2-1in

Bullion Gold and Silver Mining Company, Van Horn District.—Notice is hereby given that a meeting of the stockholders of the above named company will be held at the office of the Secretary, at 7 o'clock on MONDAY EVENING, the 25th day of January next, for the election of officers, and the transaction of other legal business. By order of the President,

San Francisco, Dec. 19, 1863. (2-m) T. L. BIBBINS, Sec'y.

Silver Butte Consolidated Silver Mining Company.— Office 523 Montgomery street, San Francisco. Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Silver Butte Consolidated Silver Mining Company, there will be sold at public auction, at the office of the Company, San Francisco, on SATURDAY, February 27th, at 11 o'clock A. M. of that day, to the highest bidder, for cash, in United States Gold coin, so many shares of the Capital Stock of said Company, standing in the names of the following shareholders, as will be necessary to pay assessment Nos. 2 and 3, duly levied thereon, and now being due and unpaid, together with the expense of advertising and sale—to wit:

Name.	No. cert.	No. Ass't	Shares.	Amt.
Browning, John	137, 133, 139	3	25	$12 50
Beauchamp J. W.	100, 229	2 and 3	20	20
Butman, H.	152	3	2	1
Cross, J.	191	3	25	12 50
Ebeling, P.	131	3	1	50
Erskine, Geo. B.	301	3	3	1 50
Fallon, M. M.	111	3	1	50
French, B. F.	173	3	6	2 50
Johnson, B. R.	163	3	1	50
Johnson, C. H.	54, 144, 146	2 and 3	26	26
Johnson, G. H.	25, 56, 236 240, 257, 258, 259	3	35	17 50
Keck, H.	192 to 199 in., 201	2 and 3	125	125
Loomis, Riley	135, 354, 355, 356	3	26	13
Lord, T. B.	371	3	64	32
Littlefield, J. D	84, 85, 88, 89, 214, 215	3	81	40 50
Mains, J. R.	41, 42, 43, 49, 304	3	27	13 50
Meriam, E. D.	404, 256	2 and 3	21	21
Manchester, A.	100	2 and 3	6	6
Norcross, J. K.	184	3	2	1
Osborn, F.	349 350 361	3	23	11 50
Percival R.	66, 91, 95, 98, 282	3	12	6
Sproul, J. B.	211	3	6	2 50
Stratton, S.	212, 339	3	20	10
Wood, Sarah	243, 352	3	6	3

By order of the Board of Trustees. M. G. ELMORE, Sec.

San Francisco Silver Mining Company, Lower California, Office 542 Sacramento street, San Francisco, December 24th, 1863—Notice is hereby given that in accordance with the laws of the State of California, and the By-laws of the Company, and an order duly made by the Board of Trustees of the San Francisco Silver Mining Company, there will be sold at public auction, at the sales-room of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on MONDAY, January 25th, 1864, to the highest bidder for cash, in U. S. gold coin, so many shares of the capital stock of said Company, standing in the names of the following persons, as will be sufficient to pay the assessments heretofore levied and past due, together with the cost of advertisements and expenses of sale, unless said assessments and charges are sooner paid.

Names.	Shares.	Amount.
S. C. Bradshaw	439	$304 05
S. C. Bradshaw, Jr.	20	7 12
Geo. B. Reeves	25	8 12
E. T. Peck	50	17 50
J. R. Stewart	26	17 50
C. H. Parker	75	15 00
G. H. Ames	6	1 00
Wm. H. Buffington	6	1 20
C. Bourduan	25	8 12
J. M. Cummings	90	18 00
H. W. Chesney	10	1 00
Francis Catting	5	1 63
H. Kimball	10	1 00
Mrs. C. Smith	8	80
E. Sammis	10	1 00
C. Lasselle Taylor	125	12 50
J. R. Warren	10	1 00
Geo. O. Whitney	75	15 00
J. B. Ryder	75	15 00
Robet. C. Bartlett	20	2 00
Martin P. Townsend	10	2 00
John Pinkhaber	5	1 00
Mrs. C. S. Brownell	7	70
John Perry	5	50
Simon Strahan	5	50
W. T. James	5	1 62
Henry S. Smith	20	2 00
W. L. Anderson	25	2 50
Chas. M. Cornell	10	1 00
P. J. Wood	25	6 00
John A. Lundquist	5	50
Thos. Pike	25	2 50
G. W. Smith	10	1 00

By order of the Board of Trustees.

dec28-4t H. C. KIBBE, Secretary.

The above sale is postponed to WEDNESDAY, February 10th, 1864, at 12 o'clock M. By order of the Board of Trustees.

fv8-2w H. C. KIBBE, Secretary.

Mammoth Consolidated Gold & Silver Mining Co., Excelsior District, N. T.—Office 528 Montgomery St., San Francisco, Nov. 28, 1863, Notice is hereby given that there will be sold at Public Auction, at the office of the Company, in San Francisco, on Saturday January 9th., 1864 at 12 o'clock, M., of that day, to the highest bidder, for cash in U. S. gold coin, so many Shares of the Capital Stock of said Company standing in the names of the following shareholders as will be necessary to pay assessment No. 1., of ten (10) cents per share, duly levied thereon by the Board of Trustees on the 9th. of May, 1863; also assessment No. 2., of thirty (30) cents per share, duly levied thereon by the Board of Trustees on the 27th of June, 1863, together with all the expenses of advertising and sale, unless said assessments are previously paid to M. G. Elmore, Sec., San Francisco, or to W. H. Dalrymple, Financial Sec., Auroru.

Names	No. Cer't.,	No. Ass't.,	Shares,	Am't.
J B Best	74 343	1 2	300	115 00
G W Baily	344	1 2	200	80 00
J J Coddington	358	1 2	56½	22 50
D C Crooker	334	1 2	250	100 00
T A Cutter	25 393 to 403 incl'	2	125	37 50
J R Dudieston	27 28	1 2	50	20 00
WD Garland	437 442 450 451 503	2	275	82 50
D H Haskell	65 to 69 incl'	1 2	50	20 00
James Jaques	333	1 2	250	100 00
R P Johnson	443	2	100	30 00
J H Latcham	283 284 288 to 291 incl'	2	60	16 93
E J Mathews	4	2	200	60 00
W Mason	92 462	2	13	3 90
John Patten	416 417	2	15	4 50
Geo Raymand	126 to 131 incl' 136 to 142 incl'	2	125	37 50
G H Rogers	143 to 151 incl'	2	200	60 00
J S Shultz	361 487	1 2	95	33 00
G D Myers	360	1 2	5	2 00
A J Severe	170 to 189 incl'	2	200	60 00
N Steiner	118 to 124 incl'	1 2	100	40 00
H S Van Dino	218 338	1 2	175	68 75
H Watson	263 to 267 incl'	2	25	7 50
J C Darragh	268 to 274 incl.	2	50	15 00
J M Mereuith	77, 446, 447	2	100	25 00
J Hawkins	73, 452, 456, 455, 454	1 2	175	70 00
C E H Wheaton	570	1 2	25	10 00

By order of Board of Trustees.

M. G. ELMORE, Secretary.

The above sale is postponed until Saturday, January 30th, 1864, at the same place and hour. By order of the Board of Trustees.

2 M. G. ELMORE, Secretary.

AND SCIENTIFIC

Mining Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

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A Valuable Paper on Mining.

LECTURE ON MINING, —AND— Its Relations to Civilization and Progress.

BY PROF. J. D. WHITNEY.

Delivered at Platt's Music Hall, San Francisco, on Thursday Evening, January 28th, for the benefit of the Mechanics' Institute.

After some introductory remarks, having reference to the interest which a San Francisco audience might be expected to feel in the proposed subject of the lecture, Professor Whitney continued as follows.—

The geographical and geological position of California in general, and of San Francisco in particular, is such as to lead to many interesting reflections of which I can only glance at one or two. If there is any feature of the earth's surface to which with propriety the epithet *grand* can ho applied, it is the crumpled borders of the Pacific Ocean, itself occupying one fourth of the earth's surface, which forms the western slope of the North and South American Continent. This crumpled border, which has been formed by the gradual sinking of the hed of the Pacific, comprises a vast assemblage of mountain chains, which are a unity in many respects, and to which the collective name of the Cordilleras of North and South America, or the American Cordilleras, may be applied. Although the Himalaya may bonst of higher mountain summits; yet, taken as a whole, the American Cordilleras constitute hy far the greatest assemhlage of mountain ranges in the world; they may in fact be called its back-bone.

Beginning at the southern end of the chain, with Tierra del Fuego, we pass north, successively, through the Patagonian, Chilian, Bolivian, Peruvian, and the Columbian Andes, which together constitute an unbroken wall along the Pacific shore for n distance of 4,500 miles in length, with a breadth of from 40 to 350 miles, and with a mean elevation of nearly 12,000 feet. In some places the range consists of a single ridge, in others, of two or more, with lofty plateaux, like that of Quito, between them, with a steep and rugged slope to the Pacific, and a gradual decline to the East into the broad and fertile plains of the Orinoco, the Amazon, and the La Plata. Sentinelled along on this giant wall, stand those volcanic cones, so graceful in their proportion, so dazzling in their snowy refulgence, never yet and never to be scaled by human effort, of which Aconcagua is the monarch, rising to the altitude of 24,000 feet above the sea level.

Sinking down on the Isthmus of Panama, so as to allow of an easy railroad communication across the chain, this great mountain system rises rapidly towards the north and spreads out fan-like through Mexico, across the whole territory of the United States, and finally bathes itself in the waves of the Arctic Ocean.

Within the limits of the United States the Cordilleras have spread themselves out to their greatest width, and in the latitude of San Francisco a line drawn across the chain from west to east will have its maximum length, which is just about n thousand miles, it being but a few miles less than that distance from this city in an air-line to Pike's Peak.

The whole area occupied by this mountain network in our territory is about 1,000,000 square miles, an area almost five times as great as that covered by the whole empire of France.

This vast plexus, or tangle, of mountains is but just beginning to be explored. In former days geographers used to represent a single continuous ridge stretching across the middle of our territory from north to south, like a huge caterpillar, and dividing the east from the west, giving the impression that beyond was a vast plain to near the shores of the Pacific; but we now know that this whole space is occupied by range after range of mountains, with comparatively narrow valleys between them, which probably altogether do not make up one-tenth part of the whole area, so that we have a stupendous labyrinth of ridges, enough to puzzle all the geographers and geologists to unravel for the next hundred years.

Although we are accustomed to call the eastern edge of this system of elevations the Rocky mountains, and the western side the Sierra Nevada and Coast Ranges; yet, unless we start with an artificial system arranged heforehand, we cannot say where the one leaves off and the other hegins.

The geographical position of San Francisco in respect to the Cordilleras of North America is indeed remarkable. Midway between the north and the south, just opposite to the widest mountain area, with the only harbor in all respects unimpeachable along our entire Pacific coast, it needs no prophet to predict her future greatness.

But it is chiefly to one feature of the American Cordilleras that I wish to direct your attention to-night, as especially connected with the subject of this lecture; this is, the great prominent fact, that this complex of mountain ranges is pre-eminently the mineral storehouse of the globe, the treasure-chamber of all nations. For the last three hundred years, a stream of metallic wealth, and especially of the precious metals, has been flowing steadily from various points in the Cordilleras of North and South America, towards the eastern countries, compared with which the rivulets proceeding from European and Asiatic mining regions were, up to the time of the opening of the Australian gold fields, at least, almost as nothing. Let us briefly trace the progress of discovery and see what influence the metalliferous character of the western edge of our continent, both north and south, has had on the march of events; for certainly the history of mining is by no means one of the least interesting chapters in the annals of the world's progress. No cause has operated so powerfully in bringing about those great migrations of nations, which have built up new empires in before unknown regions, as the thirst for the precious metals, and the history of the American Continent, for the first hundred years at least, is almost exclusively the history of adventurers in search of El Dorado, the land of gold. Lofty as may have been the motives of Columbus himself, the mainspring of those great geographical discoveries in the fifteenth and sixteenth centuries, which revolutionized the whole trade, commerce and political status of the world, was the love of gold. And does the history of mankind present a more gloomy and repulsive picture than is exhibited by the annals of Spanish conquest and settlement in Mexico and South America? Theology and the Bible were invoked, as they have been at all times, to sanction the most fearful horrors the mind of man can conceive of. In the language of Draper, "It was one unspeakable outrage, one unutterable ruin, without discrimination of age or sex. They who died not under the lash in a tropical sun, died in the darkness of the mine. From sequestered sandbanks where the flamingo fishes in the gray of the morning; from fever strickened mangrove thickets and the gloom of the impenetrable forests; from hiding places in the clefts of rocks, and the solitude of invisible caves, from the eternal snows of the Andes, where there was no witness but the all-seeing sun, there went up to God a cry of human despair. By millions, whole races and nations were remorselessly cut off. The Bishop of Chiapa affirms that more than fifteen millions where exterminated in his time. From Mexico and Peru a civilization that might have instructed Europe was crushed out."

The treasures of gold and silver with which Europe was deluged, at such cost of human life and happiness, agitated the civilized world to its deepest foundations, the populace went wild at once with a lust of gold and the love of adventure.—

In 1545, only twelve years after the treacherous massacre of the last of the Incas of Peru, by Pizarro, the mines of Potosi were hit on hy a poor herdsman, and from the comparatively narrow area occupied by one isolated mountain at an elevation greater than that of the highest peak of the Sierra Nevada, more than a thousand million of dollars have been obtained with the rudest processes and the most reckless working. The whole territory under Spanish dominion, including New Spain or Mexico, is believed to have produced, up to the begining of the present century, between five and six thousand millions of dollars. In the year 1571, the process of amalgamation was introduced; but most of the quicksilver used was brought from Spain, so that, in reality, there was hut little mining anywhere under Spanish dominion, except for gold and silver. The ores of all the other metals have been long known to be more or less widely disseminated through the Cordilleras, hut none of the less valuable ones were worked until a quite recent epoch.

It will be observed that the great deluge of the precious metals which inundated Europe did not, in any part, come from territory now helonging to the United States. It was not until nearly a century after the discovery of the Potosi mines, that a few colonists set foot on the barren and emphatically non-metalliferous shores of New England. Mining formed no part of the object of these men; and, if it had, surely they could not have come to a worse region in which to carry it on. Through the whole of the early period of our national history, mining remained the least attended to of all hranches of industry. Indeed, up to the commencement of the present century, the amount of the metals raised, whether of those styled precious or any other, within our borders, had been so small as to he quite unworthy of notice.

As early as 1650, the Governor of Connecticut had initiated the prospecting husiness in this country, in the vicinity of Haddam and Middletown, on the Connecticut river; but the practical results were of no consequence. As far back as 1659, the Jesuit Fathers, with that wonderful energy for which their order has been so distinguished, were laboring among the Indians on the shores of Lake Superior, and of course did not fail to notice the masses of native copper, scattered over the country; but it was almost two hundred years after their accounts of the occurrence of this metal, in that almost inaccessible region, were published, before any mining operations were commenced which led to permanent results. But it is a most curious fact, that long previous to any time of which there is a historic record, and, as it would appear from various circumstances, not less than a thousand years ago, and perhaps much more, the whole region of Lake Superior and even the remote islands on the north shore of that lake were mined over, in literally thousands of places, shafts sunk in solid rock to the depth of over fifty feet, without the aid of steel or gunpowder, and masses of copper raised of several tons in weight. I believe that there has never yet been discovered an important vein in that region, on which some work had not been done by these ancient miners, of whose origin and disappearance nothing is definitely known.

Early in the 18th century, Le Sueur, a Frenchman, explored the valley of the Upper Mississippi. Like many another searcher after metals, he imagined that he had discovered mountains of metallic ores, and actually brought a cargo of what he supposed to be copper down to New Orleans; but as there was really nothing of the kind in the region he explored; and as, if there had been, it could have been of no value in those days, his labors came to nought. Although history makes no mention of the fact, Le Sueur may have lent his breath to blow up the prodigious bubble which the French originated some 20 years later, called the "Company of the West,"

and which was perhaps the boldest and most visionary of all the great humbugs ever started. It was based upon the presumed existence of the precious metals in the Mississippi Valley, a region rather more destitute of them than any other portion of the earth of equal size. The only metallic ore found in any considerable quantity by the miners and explorers sent out by this company, was that of lead; but the few mines which had been started were abandoned, when the bubble bursted in Europe, as it soon did with a terrible crash, alarmingly destructive to all classes and both sexes of adventurers who had rushed blindly into the trap.

During the eighteenth century, occasional efforts were made to work mines of copper, lead, or other metals throughout the region now occupied by the Atlantic States; but little was accomplished. Some iron was made in Virginia and Massachusetts, the first iron-furnace in the United States having been erected in the last-named State in 1702; but as long as we were colonies, Great Britain, in accordance with her usual colonial policy, prevented the growth of this business, destined afterwards to become of such immense importance.

The lead mines of the Northwest, especially those of Missouri, began to be worked just at the close of the last century; but it may be safely asserted that, in the way of the development of our mineral resources, nothing of importance had been accomplished until about the beginning of the 19th century.

Within the last fifty or sixty years, the United States has made prodigious strides towards the first position among nations as a producer and consumer of the metals; but the progress has been very irregular and spasmodic. Mining fevers have raged throughout the length and breadth of the land, and have been succeeded, like all attacks of high mania, by periods of depression. We have run through successively the lead, the copper, the gold, and now are perhaps a little past the crisis of the silver excitement.

Lead mining began in the Upper Mississippi and Missouri lead regions, early in the present century, and the mines reached their maximum productiveness in the years 1835 to 1845, during which period from 25,000 to 30,000 tons of the metal were produced annually.

In 1845, our mines produced about the same amount of lead as those of Spain, and England about as much as the United States and Spain together, and these three countries fully nine-tenths of the whole produce of the world in this metal. Thus lead was the first metal with which we began to make a figure in the commerce of the world; but, unfortunately, our mines, as well as those of Spain, are not founded on permanent veins, so that our produce has been falling off within the last few years, and England now produces about half the lead of the world, which is fully 150,000 tons.

In copper we did but little or nothing until the opening of the Lake Superior mines, where the first blow was struck in 1845, and which was the only cupriferous district in the United States, of any importance, until California began to work her deposits of the ores of this metal.

In 1853, Cornwall and Chili together produced one-half of the copper consumed in the world, the grand total of the yield of that metal being about 56,000 tons. The other half was made up of small amounts from nearly every country in Europe, as well as from Cuba and Australia. During the last ten years the consumption of copper has been steadily increasing, and must now be fully 70,000 tons per annum; but in the case of this metal, more than any other, the grand total is made up of items from all parts of the civilized world, as its ores are, next to those of iron, most widely and universally distributed.

But there is another metal of much greater importance than either of those yet mentioned, and of which our production had been steadily increasing since the beginning of the present century; so that, at the time the Lake Superior region was opened, we stood only second to Great Britain in the amount furnished to commerce. I mean iron—which is emphatically the metal of civilization and the arts.

Of iron, we produced in 1845 about half a million of tons per annum, and now probably about a million, which is one-seventh of the product of the world at the present time. England, as usual, comes in for the lion's share—namely, one-half, or four millions of tons; and when we add that this immense production of iron is accompanied by a correspondingly enormous yield of mineral coal, or no less than 90,000,000 of tons per annum, we need not ask any further questions why England rules the sea, and a considerable portion of the dry land. It may be consoling to the pride of an American, however, to reflect that, according to the highest authority, namely that of the President of the British Association, as enunciated at its last September meeting, the best coal mines of Great Britain will be exhausted in less than 200 years if they continue to be worked as they have been for the last few years; and as the area of our coal fields is believed to be from 20 to 40 times as great as that of Great Britain, those who can have the patience to wait a couple of hundred years will probably have the satisfaction of seeing some remarkable changes in trade and commerce in favor of our side of the Atlantic, especially as our stores of iron ore, laid away in the mountains in nearly every State of the Union, are ampler than any other known to exist in the world.

The great secret of England's unrivalled prosperity in manufactures and commerce, lies in the proximity of their coal and their iron to each other, and the consequent cheapness with which both can be raised—both often from the same pit; but our disadvantage is partly compensated by the superior quality of our ore, especially of that of Lake Superior and Missouri, where it exists in what may, without exaggeration, be called mountain masses.

A new epoch in the history of mining, not only of the United States, but of the world, dates from the beginning of the gold excitement, which originated in California in 1848. I do not say from the discovery of gold in California, for although it is true that the finding of the precious metal at Coloma, on the South Fork of the American river, was the electric spark which flashed a golden light all over the world, yet it is not the less the fact that gold had been regularly obtained by washing, and even by quartz mining, as early as 1843.

It may seem strange that this should have been so; that years should have rolled by without any attention having been called to these facts; and that then suddenly all civilization should be so profoundly affected by a circumstance so nearly akin to those which had preceded without causing the slightest commotion. But the history of the world has shown again and again that every great discovery must be brought forward, under just the right conditions and circumstances, before it will come into general, practical application. Thus, to illustrate from the application of science to the wants and uses of everyday life, it was known for years and years before the electro-magnetic telegraph began to be universally used, that the problem of conveying intelligence by this agency could be easily solved—nay, more, that it had been; but it required time, place and opportunity before the spark could catch the tinder of the popular mind.

Look at the introduction of railroads. It took 200 years of preparation to bring about the condition of things which should result in the universal acknowledgement of civilized nations, that an entire change must take place in our modes of conveyance—a change affecting most deeply civilization and progress throughout the world.

For 200 years the idea of transportation on rails or bars laid on the ground, instead of on our common roads, germinated and vegetated, and who can say how or why it was that it all of a sudden became a matter of conviction to every mind that the railway was to be the great means of conveyance for all future time?

Be this as it may, it is certain that the year 1848 was one of the great epochs of the human race, for it marked the commencement of a new era in the history of mining throughout the world; the network of discoveries spread in every direction, from California as a centre, until a large portion of the world was embraced in its folds. Of the effects on the commerce of the world, the spread of empire and the march of civilization, of these developments of mining resources which have been almost constantly taking place since 1848, it is hardly possible, in a few words, to convey any adequate idea. What the silver crusade of the Spanish nation was in the sixteenth century, has been repeated, under a golden banner, by the Anglo-Saxon nationalities in the nineteenth.

For, most strange to say, the great gold discoveries of the past fifteen years have, in vastly the greater proportion, been on the soil of the former or present colonies of Great Britain. First California, then New South Wales, then Victoria, then British Columbia, then New Zealand, and now Nova Scotia has put in its claim as a gold-producing country. England at first, more than our own country, felt the beneficial effects of these discoveries, for millions of human beings, who before seemed to have nothing to look forward to but the work-house and the pauper's grave, had now an opportunity given them to escape from these horrors to happy homes in distant and previously unexplored solitudes. And let not the words "workhouse" and "pauper's grave" be reckoned an American exaggeration—they are not my own, but those of a British writer on this subject.

The influences thus felt in England reacted most powerfully on the United States, for the raising of wages there enabled us to compete with that country in various branches of manufactures, which could not be done before, as our laboring classes were not reduced by density of population and other causes to work on starvation wages. Besides this, the demand for breadstuffs, which the great Mississippi Valley could supply in unlimited quantity, gave an immense impetus to the growth and prosperity of that region, furnished the money with which the whole western country was covered by a net-work of railroads, and brought relief to the Prairie States, which seemed, before, likely to be choked by their own luxuriant fertility of growth.

Probably there is no one here present who has not some conception of what a mine is, although it is to be feared that a good many may approach in the crudeness of their ideas the Western man, whom I once heard laying down the law on the subject of mining, after this wise: "What's a mine but a hole in the ground, and can't any fool make a hole in the ground?" But I believe this same individual found to his cost that although one fool might make a hole in the ground, a good deal of another fool's money must be expended in the operation.

There is certainly no doubt that a large proportion of the mining within a thousand miles of this city has been done on what may be called the "hole-in-the-ground" principle, the results of which are visible in the shape of one small excavation in the rock and another large hole in the pocket.

I am not now speaking of placer or hydraulic mining—mining as we term it, but which in other languages is not called by this name—the term mining being properly applied only to working in the solid rock.

Vein mining, as it is called in the English language, or mining proper, is a very complicated matter, and to be carried on successfully, in a permanent way, demands no small amount of scientific knowledge and mechanical skill.

Deposits of metalliferous matter in the earth's crust are very diverse in their form; but they usually occur filling fissures or cracks in the rocky strata, accompanied by a large amount of peculiar earthy minerals, different from the wall-rock or "casing," as it is frequently called in California: the fissure thus filled, is called a *vein* or *lode*, of which the word "lead" is a corruption; the earthy or non-metalliferous matter is the *gangue* or vein stone, and the valuable metalliferous portion the *ore*.

As veins usually occur in rocks which belong to what geologists call the metamorphic series, that is to say, rocks which have been turned up on edge, and more or less altered from their original character by chemical and mechanical ageucies, it follows that these veins are themselves generally found dipping at a high angle, or even standing just vertical, so that to remove their valuable contents, work must be caried on down to hundreds or thousands of feet below the surface. To do this safely and economically, requires much skill and judgment in the arrangement of the excavations, so that a large number of men may have the necessary space in which to work without danger, and be supplied with fresh air, heavy and expensive timbering being often required to support the rocks so as to prevent their crushing in upon the miner. Besides this, machinery, frequently complicated and always expensive, is necessary for raising the ore, pumping out the water, and in very deep mines, to raise and lower the men, and thus save the great loss of time and strength which would otherwise be expended in climbing up and down thousands of feet of ladders.

Then the ore when raised has to be prepared for the market: *dressed*, that is to say, separated from the earthy and valueless mineral matter with which it is mechanically mixed, and *smelted* or *amalgamated*, so as to isolate the valuable metal from its chemical combination with the sulphur, oxygen, antimony or other "mineralizers," as these substances are called which usually occur combined with the metal itself, masking its properties and rendering it useless until separated from them.

Thus, mining and metallurgy become a very complicated business, and one in which it is easier to throw away money than perhaps any other.

But it is the mode of occurrence of the metals and ores, which are the objects of mining research, that makes the business of mining so uncertain, and at the same time so attractive. Traditions of all the great fortunes which have ever been made by lucky hits in mining seem to be forever floating in the air, and to be breathed in by the miner, until they become a part of his very being.

The business is sufficiently uncertain even in an old and thoroughly explored region; but in a new country, excitement becomes delirium, and there is nothing too improbable to find plenty of believers.

It is a fact, that extremely few metalliferous veins are equally rich for any considerable distance, either lengthwise or up and down; the valuable portions of the ore are concentrated in masses which are frequently very limited in extent, compared with the

mass of the vein, in which they are contained.

It is a fact, that indications of valuable ores on the surface do not always, nor once in a hundred times, lead to masses of ore beneath the surface of a sufficient extent and purity to be worked with profit. There are, literally and truly, thousands of places in New England where ores of the metal, including silver, copper, tin, lead, zinc, cobalt and nickel have been observed; many of these have given rise to mining excitements, and have been taken up, worked for a time, abandoned, taken up again, abandoned again, off and on for the last fifty or even a hundred years, and always with partial, and usually with a total loss of the money invested. There may be one solitary mine in Vermont which is paying a small profit to the shareholders; but with the exception of this, and a few mines of iron-ore on the border of Massachusetts and Connecticut, there is not one which has not cruelly burned the fingers of those who have meddled with them.

Even on Lake Superior, that region which is commonly appealed to as made up of solid copper, there have been many hundreds of companies formed, and at least a hundred mines opened and worked more or less extensively; but for ten years after mining had begun to be actively carried on there, only two of the mines had paid back to the stockholders one cent of dividend. Even in England, it is the opinion of Mr. Hunt, the Keeper of Mining Records, who has devoted many years to the investigation of the statistics of this branch of the nation's wealth, that mining for the metallic minerals, with the exception of iron, is not on the whole remunerative. There is a wonderful fascination about the mining business, which seems to blind the eyes and bewilder the senses of those who come within the sphere of its influence. The organ of hope seems to swell up and predominate over all the others:—what phantasmagoria will men not follow, if there is any metallic lustre about it!

How many a man will buy and sell stock in a mine, knowing nothing of its position, nature or value, who would be considered by his friends a fit candidate for Stockton or San Quentin if he transacted any other business in the same way.

Some, if not many, persons seem to think that rash and foolish investments in mining may be unfortunate for the individual; but that the State or community is no sufferer thereby: that what is one person's loss is another's gain, and that no harm is done provided the money is expended in the country.

It will however, require but little reflection to satisfy any reasonable mind that this is an egregious error. If foreign capitalists could be induced to send money to this State to be expended in some way, in which nothing of value should be accomplished, and no returns received for the money invested, as for instance in quarrying away and smoothing off the crest of the Sierra Nevada, an undertaking which would come as near as any one I can think of, to requiring an eternity of time and an infinity of means, no doubt there would be a certain degree of prosperity resulting to the State from the enterprise, inasmuch as labor, materials and provisions would be consumed, and the State thus be the gainer through the loss of others.

But although outsiders might embark in an undertaking as foolish as the one I have just suggested, we have no reason to suppose their eyes would not be soon opened to the absurdity of the thing, and when we should come to putting *our own* capital into the work, we should soon find that we were exhausting our resources just in proportion to the amount we were expending; and that for any permanent benefit which would accrue to the State, the money might as well have been thrown into the Pacific Ocean.

If the California capital which has been wasted in foolish mining enterprises in this State and on its borders during the past three years would, as I fully believe, have paid for a railroad to Washoe; then California is the poorer by a railroad to Washoe, with double track and rolling stock complete, than it would have been, had not recklessness and ignorance diverted capital from this great enterprise.

It is because of the uncertainty of mining operations, that this branch of industry, in highly civilized countries, has been taken under the peculiar care and watch of the government.

In France, no mine can be opened without permission from the Department of State charged with the supervision of mining affairs; and, if permission is given and the work commenced, it is done under the inspection and with the advice of skillful mining engineers, graduates of the Imperial School of Mines, who are charged to see that no wasteful expenditures are made, no loss of life caused by ignorance or haste and no imposition practised on the public by false representations of what is going on.

In Germany, government mining schools are established, furnishing free instruction to those who wish to fit themselves thoroughly for the practice of this profession; aid is furnished from the public purse to carry on great enterprises which have for their object the development of mineral resources; and many veins are worked at the expense of the State, for the benefit of the people, where the strictest economy and the highest skill are required to make the receipts balance the expenditures. The result of all this is, that in these countries the fullest possible benefit is derived from their national resources in this department, the miners are more intelligent and comfortable, in proportion to the average intelligence and comfort of the people, than they are in other States: and, most of all, that terrible waste of life and money which characterizes ignorant mining, is prevented.

Even in England, that country which is more richly endowed with mineral and metallic treasures than any other region on the globe of equal area, and where it used to be supposed that the mining interest could shift for itself, experience has finally demonstrated to the satisfaction of all thinking men, that much could be done by government aid and inspection, by the establishment of mining schools, by the collection of statistics, and the carrying on of the most perfect and elaborate geological surveys.

Says one of the highest authorities on these subjects in England, "I am assured that money will continue to be squandered in lavish expenditure on mines that are unworthy of trial; that wealth will be wasted through the errors of ignorance; that dreadful casualties will continue to horrify us; and that the miner will perish ere yet he has reached the number of his days; until we have crushed out that dark ignorance which spreads over all like a fungus, and have planted in its place some of the seeds from the tree of knowledge." And if this be true in England, with her centuries of experience, superabundance of capital, and certainly not inferior supply of good common sense, what shall we say of some other countries and regions, which are just about entering on the development of their mining resources, without any experience, without an overflowing amount of capital, and with no special advantages, other than those which Nature has so bountifully supplied.

By a singular coincidence, it has happened that two great offshoots of the English stock have been planted, nearly at the same time, and under closely resembling circumstances. In geographical position, they are the very antipodes of each other; but in all else, wonderfully alike. I refer, of course, to the region of the Pacific slope of the United States and the English colonies in Australia, especially that of Victoria.

California had three years the start of Victoria; and it was through the discoveries of a returned Californian miner that the gold deposits of the latter region were opened to the world.

In the amount of their production of the precious metal, which is the great staple commodity of both countries, there is no very great difference; but, although it may not be very pleasing to our State pride to have to confess it, there is pretty good reason to believe that our cousins at the Antipodes have outstripped us in all that relates to the development of their resources and the substantial improvement of the country.

Melbourne, which is the San Francisco of the antipodal gold regions, is twice the size of our metropolis. She has 350 miles of railroad leading out into the country, which have cost $175,000 a mile to build. The Victorian gold fields are said to be models of industry, order, and sobriety. There are several interior towns, having a population of from 20,000 to 30,000, and well built of stone and brick, with public buildings, both substantial and elegant. The town of Ballarat, for instance, has 5,000 stone, brick and wooden houses, nine banks, all handsome stone buildings, a large and elegant hospital, a mechanics' institute and reading room, a court-house, town-hall, three theaters and two daily newspapers. Where is the interior mining town on this coast of which as much can be said?

Certainly there is no reason to believe, as far as one can judge from published documents, that Australia is superior to California in natural advantages. Our mineral deposits seem even to be more varied and extensive than theirs, and our agricultural capacity fully as great; indeed, in many respects, there is a striking resemblance between the two countries in climate and other circumstances which determine the nature and amount of the produce of the soil.

In casting about to find out what could be the cause of the greater advance of the colony of Victoria, I could find no reason which seemed so likely to be the true one, as the pains taken by the Government to bring the lights of science to bear on the settlement of all questions connected with the security and welfare of the miner, and the admirable regulations which have been established in connection with the disposal of the government mineral lands, and for the settlement of conflicting claims among the miners. This is not the place nor the time to go into these regulations in detail; but I may, perhaps, be considered as taking no unfair advantage of the present opportunity, when I state that a thorough geological survey has been going on there for the past ten years. Undoubtedly there are several points on which we might receive instruction from the experience of our antipodal cousins, if we could once make up our minds that we did not know everything already.

Placer mining had been prosecuted pretty steadily in California, with the exception of occasional furious rushes of a portion of the population of the State to supposed new districts, as to Fraser river, for instance, in 1858; and auriferous quartz mining had made some progress towards stability up to the year 1859. But, with the exception of the quicksilver mine at New Almaden, nothing had up to that time been done towards developing the other metalliferous deposits which were supposed to exist in the State, of which little, however, was definitely known. In that year, the discovery of the Comstock lode gave a new impetus to mining on the Pacific coast, and formed indeed an era in the mining history of the whole country.

Here, in San Francisco, it is needless to speak of the excitement which followed the Washoe discovery, for we are in the midst of it now, and only those who have been in it can realize the rapidity and the recklessness with which, one after the other, new mining regions were opened on the other side of the Sierra, and how the State of California seemed almost about to be drained to the last man by the rush of the people over the mountains, deprived of its mining machinery by the stampede of stamp-heads, and of its capital by the all-pervading mania for "feet."

The great discoveries which have so agitated California and the adjacent territories during the last three years, are on the same great metalliferous belt of which we have before spoken, as extending from the extreme southern end of South America to the Arctic Sea. For 300 years the Spanish-American race has had the opportunity of showing what it could do with the immense resources placed at its disposal in the mountain chains of Chili, Peru, Bolivia, New Grenada, Central America and Mexico; and what a picture of wretchedness, ignorance and semi-barbarism do these countries present at the present time! At the very height of its yield of the precious metals, the whole mining region of Peru might have been pointed out as the place where the greatest amount of misery was compressed into the smallest space. As the net result of the winning of hundreds of millions of treasure, nothing could be shown but a region not half worked out, but so devastated and ruined by reckless mining as to be rendered forever worthless, and the bones of the wretches whose lives were sacrificed to quench the insatiable thirst for gold, which was the one mad passion impelling all to a common ruin.

Nor in Mexico was it much better in the early days; neither has the introduction of English capital during the past thirty or forty years done much to raise the standard of moral or intellectual development in that country. When we consider its geographical position, rich mineral resources, its delightful climate, and the fertility of its soil, it would seem as if there, if anywhere, progress should have been made towards the highest civilization which the human race is capable of. But how different the reality! Up to the present time it can hardly be said that any one of the Spanish-American States ranged along the mineral belt of the Cordilleras, shows a much higher degree of civilization than did the unfortunate aborigines who perished by millions to make way for the foreign invader. Here and there are feeble, glimmering lights, foci of scientific development always seeming as if just about to be submerged in the advancing tide of superstition and ignorance. But how little has been added to the sum of human improvement, in any department, whether of art, science or literature, within the 300 years that have elapsed since these States were opened to European civilization?

History teaches us, very plainly, that the amount of the precious metals mined in any country affords no clue to its prosperity, if by this term we mean permanent welfare and happiness of the people, and progress in the arts of civilization.

The career of Spain was a downward one from the time she began to be deluged with the treasures of her American colonies. Degraded from her proud position among nations, a mere skeleton of what she once was, stripped of nearly all her colonies, she remained a by-word and reproach among nations, until, thrown upon her own resources, she began to develop those, in doing which she is now rising gradually from her former state of decadence. What will be the future of the immense mining region com-

prised within the limits of the United States, which the explorations of the past three or four years have shown to exist, is a question pregnant with interest. That the wealth of the world will be added to immensely by the mining operations, which can be hardly yet said to have begun in the vast territory comprised between the Rocky Mountains and the Pacific, cannot be doubted. But what will be the moral and intellectual status of the people who are to inhabit this territory; what their position in relation to civilization and progress? These are momentous questions, and questions to which it is not easy to give an answer. But we can avail ourselves of the experience of the past to learn what is our duty for the future, and whither our efforts should be directed, if our aspirations tend to anything beyond the mere satisfaction of the lower instincts of our natures.

No State can attain great wealth unless it develops its resources in more than one branch of human industry; and without wealth there cannot be a high degree of civilization, although it does not necessarily follow that with wealth there must be civilization. A steady stream of the precious metals, of immense volume, has been flowing into Asia from the west, until thousands of millions have been absorbed; but, as for any permanently civilizing effect it has produced, it might nearly as well have been hidden in the ground, where, indeed, a large portion of it undoubtedly is. Wealth, to produce a civilizing effect, must be skillfully and intelligently used. Mining, agriculture, manufactures and commerce must all be sustained and fostered on this coast, if we expect to take a high rank as a State; and the full and harmonious development of our resources is dependent on a corresponding degree of moral and intellectual development of the people, for ignorance and vice cannot co-exist with national prosperity.

The Government of the United States has always been singularly unfortunate, to use the mildest possible expression, when it has attempted to meddle with mining matters. There has never been any special bureau for this department of our national interests, and what has been done has been done by those who have had no practical acquaintance with this branch of applied science.

In the first place, our census reports, lamentably deficient and imperfect as they are in so many other respects, become positively ludicrous when they touch on mining statistics.

To illustrate this statement, we have only to refer to the very last census, to see what confusion is made with the whole subject of mining statistics. In what professes to be a tabular statement of the yield of the mines in the United States, the number of tons of ore raised is given, although really without any approach to accuracy; but the worst feature of the table is, that no clue is furnished to the per centage of metal contained in the ore, so that we are in reality as much enlightened on the whole subject as we should be in getting at the value of the property in San Francisco, if the Assessor's returns were made out in pieces of money, without stating whether five-cent or twenty-dollar pieces were intended. Worse than this, the superintendent of the census indulges in considerable glorification in regard to the number of pounds of iron produced in the United States, as related to the number of the population. By his figures he makes out that ninety-two pounds of iron are produced for each inhabitant. This result he obtains by adding the amount of pig iron produced to that of bar and rolled iron, not knowing that the first is the raw material from which other is made—making as egregious an error, as he would do who should attempt to estimate the amount of beef consumed in San Francisco, and base some very sage and highly philosophical conclusions on his results, when they were obtained by adding the weight of all the cattle brought to the city to that of the beef produced by their slaughtering.

These are only specimens of Washington wisdom as applied to mining matters; but if the Superintendent of the last census made such a botch of his work, what shall we say of what has been done in another bureau of the Department of the Interior? The Commissioner of the General Land Office, in his last year's report to the Secretary of the Interior, takes up the subject of the mineral lands of the United States, and, in order to show that California ought to be only too happy to pay those little war bills which are running up at the rate of a thousand millions or so per annum, he makes certain statements with regard to the richness and extent of the deposits of the precious and other metals in the United States, in comparison with which the travels of Munchausen appear to be the most sober and prosaic history.

But, unfortunately, the Commissioner forgets that, if, as he appears to conceive, solid gold and silver constitute the basis on which the Cordilleras of North America are built up, these metals will soon cease to have any value at all, as compared with iron, for instance, for neither of them has the qualities which are essentially necessary to adapt them for universal use in manufactures and the arts, and thus to enable them to take the place which that metal now holds. If the Commissioner's ideas and figures are correct, for he gives the figures, which we know never lie, we should produce in one year about six times as much as the whole yield of the American Continent from its discovery up to the present time, or say the round sum of $30,000,000,000 per annum (it will not be necessary to mind the odd dollars and cents), and this before getting into the productive ground, which we shall strike *"when a sufficient depth shall have been reached!"* Well, the most remarkable thing of all in this connection was, that a California U. S. Senator brought forward a bill to appropriate a considerable sum of money for the purpose of enabling the General Land Office to collect further statistics of the mineral interests of the country! Probably Congress thought that enough had been done in this particular style of research, for the bill never passed either branch.

Congress has, at various times, tried very hard to dispose of the vexed question of how to get a revenue out of the mineral lands of the United States. In the lead region of Wisconsin, and the copper lands of Lake Superior, the system of leasing was tried, and in each case proved a signal failure.

When the Lake Superior region was first opened, the mineral lands were leased out in tracts three miles square, under authority of the War Department, probably under the idea that mining and fighting go hand in hand in new mineral districts. The absurdity of this arrangement, under which a few political characters might soon have obtained possession of the whole region, was soon discovered; and Congress finally ordered the lands to be sold, exactly the same thing having been previously done with the lead-bearing country in the Upper Mississippi Valley.

While every one will admit that the present condition of title to mineral claims in California and the adjacent Territories is a terrible draw-back to the prosperity of the Pacific coast; and while there are many indications that something will be done in the matter before long, there is great reason to fear that the Government may be led to taking some steps which will inflict a greater injury upon us than our present condition does. Any legislation based on the idea that solid gold and silver are to be reached "at a sufficient depth," as the honorable Land Commissioner seems to believe, will be pretty certain to result in disaster to the State and "confusion worse confounded" to the General Government.

It seems to me that the establishment of a joint commission, on the part of the State and the United States, to investigate the question of the disposal of the mineral lands, or of lands in the mineral region, would be the best method of shedding light on this exceedingly difficult question, and preparing the way for future action. The subject should be studied in all its bearings, and a plan proposed, embodying the results of a full legal and scientific investigation of the question, which should be urged upon Congress for adoption.

There is little doubt that, by this course, a long stride might be made towards that condition of stability which California and the adjacent Territories so much need.

But it is not from Congressional action alone that help must come; our own shoulders must be put to the wheel. We must act as a State through the Legislature, and as individuals—act vigorously and efficiently, but perseveringly—planning wisely for the future, and remembering that no great and good thing was ever accomplished without time and labor.

There are many subjects to which I might direct your attention as demanding the consideration of all thinking men in this connection; but I will only throw out a few hints in regard to one or two of these, lest I should be considered as preaching rather than lecturing, and thus be usurping the privileges of the eloquent gentleman, to the music of whose voice you will have the privilege of listening in continuation of this course.

The last Legislature took a step, which may prove to have been an important one, towards setting in motion an Institution which shall have an enduring influence on the welfare of California. A Board of Commissioners was instituted, to report to the present Legislature on the feasibility of establishing a State University, and consolidating therewith schools of agriculture and mining and the State museum. This Board consisted of the State Geologist, the Surveyor General, and the Superintendent of Public Instruction. After a careful consideration of the whole matter, the Commissioners have prepared a full report, which is now in the hands of the State Printer, and which will soon come up for action before the Legislature itself.

Believing as I do that this report brings forward a subject of great importance to California, and to San Francisco particularly, and knowing that its recommendations cannot be carried out without the co-operation of the people of this city, I take this occasion to bring the matter before you for consideration.

Under the Act of Congress, approved July 2nd, 1862, California is entitled to 150,000 acres of land for the establishment of a School of Agriculture and the Mechanic Arts; and, by a previous Act, the State has also received a grant of 46,080 acres for the use of a State University, or "Seminary of Learning," as it is called in the Act itself. The State accepted the latter grant, sold the land and has received part of the proceeds, and is receiving the interest on the balance. In her constitution she has assumed the obligation of properly using this money, and of taking active steps for the encouragement of literature, the arts and sciences. But, although fifteen years have elapsed since this obligation was entered into, nothing has been done towards establishing the State University, indeed, so careless have our officials at Sacramento been; the principal portion of the University money has been paid into the School Fund; and when the Legislature passed an Act, some three or four years ago, to remedy this state of things and gave precise directions as to what was to be done for that purpose, the officers entrusted with the performance of that duty never paid the slightest regard to the act, and have never been called to account for this negligence.

After calling the attention of the Legislature to these facts, the Commissioners, in their Report, go pretty fully into a consideration of the system of American educational institutions, from the common school to the university and professional school; and, after a thorough examination of the wants and means of the State of California in reference to a system of higher education, arrive at the following conclusion:

1st. That there is no provision in the Congressional Acts granting lands to the State and nothing in the Constitution of the State itself which particularly defines the character of the proposed institution, and that therefore the Legislature is free to act in the matter within very wide limits.

2nd. That the interests of the State require the consolidation of the grants of land for a University and for an Agricultural and Mechanic Arts School, so that both these shall be part of one Institution.

3d. That it is not advisable, at present at least, to organize a Collegiate Department in connection with the proposed institution.

4th. That the Institution required by the State, and which will be best adapted to the wants of the people of the Pacific Coast, is a School of Practical Science, or a Polytechnic School, meaning thereby an institution where the elements of the exact and natural sciences, will be taught, and their practical application to the wants of every day life as to Mechanics, Mining, Manufactures, and Agriculture.

5th. That the collection of the State Geological Survey should be eventually made over to the State University or Polytechnic School, or the institution organized for the purpose of higher education, whatever its name may be, and that the interest of the State demand that these collections should be placed in a fire-proof building which may be called the "State Museum" and where they will be accessible for the purpose of instuction not only to the student, but to the general public.

This institution the Commissioners recommended to be located at San Francisco, as the richest, most populous, and most central city on the Pacific Coast.

I do not consider it necessary to go into any arguments to prove the importance of such an institution, as the one contemplated by the Commissioners, to the State of California; nor do I think it necessary to show that no institution of this kind can succeed, without buildings, library, laboratory and collections and without an endowment. I have never yet seen a pyramid of any magnitude built, by beginning at the little end. Hence I have advocated, and still do advocate, the combination of State, city, and individual resources, believing that even then, it will require a strong effort to put in motion an institution which will really be of credit and value to the State.

The amount of money required to be raised by the City is not large, and added to that now in the State Treasury, and applicable to this purpose, will be sufficient to make a creditable beginning; so that San Francisco might, in less than two years, see an elegant building erected here, in which shall be displayed a large collection of objects in all departments of Geology and Natural History, which shall not only exhibit the wealth and resources of this State; but serve as the most valuable means of education for the people.

The publication of the Geological Survey, of which it is expected that three or four large and elegantly

illustrated volumes will appear, before the next session of the Legislature opens, will serve as a guide and key to these collections, and will, as it is believed, be sufficient to answer the question so often raised, especially by the newspapers of this city, as to whether our work was anything more than a sham.

But time forbids my pursuing these topics any farther. No one can feel a greater desire than I do to see this state attain the highest possible degree of civilization, and I look to the Mechanics' Institute as one of the means by which this is to be brought about.

Those who seek new regions take upon themselves new responsibilities, and are willing to meet and able to overcome greater difficulties, than those who cling more closely to the homes of their fathers. The greater the obstacles to be overcome, the greater the triumph of overcoming them.

A Heavy Casting.—We witnessed, on Saturday afternoon last, at what is said to have been the heaviest casting ever made on the Pacific coast. The cast was that of an enormous pinion wheel for the San Francisco Water Works Company, and was made at the Pacific Foundry. The diameter of this wheel is 9½ feet, with 16-inch face and a very heavy center or "hub"—the whole weighing between six and seven tons. To make this casting, upwards of eight tons of iron were smelted in two furnaces. The molten iron from these furnaces was drawn off, as fast as it came down, into a huge pot, holding about a ton, which, as fast as filled, was carried by a heavy crane to the opposite side of the foundry and emptied into a reservoir. The molten mass was thus accumulated until the requisite quantity was obtained, when a small gate, at the bottom of the reservoir, was opened, and the melted iron suffered to rush out, and along a prepared sluiceway, into the mould prepared for its reception. The melting of the iron in the furnaces occupied just 50 minutes, and the accumulated mass from the reservoir was run into the mould in 2½ minutes. The operation was witnessed by quite a number of gentlemen who had been attracted thither by the interest attendant upon so important a piece of work. The casting was a most complete success and reflects much credit upon the enterprise and energy of the proprietors of this extensive foundry.

We would take occasion, in this connection, to mention that the Pacific Foundry has recently made extensive additions to their shop room, by the erection of a brick building 165 feet long by 60 wide, which, in addition to their previous buildings, runs entirely through from First to Fremont street. They are also putting in a new and larger engine for driving their works. Other important improvements in the way of buildings, additional working facilities, machinery, tools, etc., are in progress, which, when completed, will render this a first class establishment, and fully equal in extent and facilities to any other in this city.

California Coal *vs* Anthracite.—We notice a lament on the part of our foundrymen over the cost ($35 per ton) of Lehigh (anthracite) coal. We commend the following statement to their attention:—Forty years since it was a problem "How to burn anthracite;" yet iron was then worked in almost the same mode, as now. Again, a ton and a half of bituminous coal, at two-thirds the cost of the anthracite, contains, say as much carbon as a ton of Lehigh. It is obvious, therefore, that the problem now is, "How to burn our (California) coal." On the 3d of August last, we called attention to improvements in furnaces which should be capable of application here. Steel in France, glass in England, iron ores in Sweden and Spain, have already been worked with economy by the adoption of similar principles.

Prof. Whitney's Address.—A limited number of extra copies of the "Press" containing this address have been printed, which can be had at this office, and of the newsdealers generally. Persons in the interior, desiring copies, can have them forwarded by mail, on enclosing, by letter, four 3-cent stamps; on the reception of which, the paper will be promptly forwarded to the address which may be designated.

[Written for the Mining and Scientific Press.]

MINING GOSSIP.

EDITED BY FRANK WARDELL.

[In this department of the Mining and Scientific Press we propose to give various and brief accounts of mining companies, and shall, under all circumstances, write *plainly* respecting their merits and demerits; furthermore, we shall bring to light such transactions as may come within our knowledge regarding the "Bulling and Bearing" system and the "underground" actions of both Trustees and Brokers. We are vain enough to suppose, at all events, that we have the "inside track," and shall, without *hesitancy or fear*, give to the public, from time to time, a peep behind the scenes whenever the occasion justifies. If, in doing so, at any time we have fallen in error as to our report, and it can be so proven, nothing will afford us more pleasure than to make the "*amende honorable*" by correcting the same. We shall feel under obligations to those who are interested in stock if they will communicate to us such items as may come under their observations, and which will prove interesting to our readers. This department is open for free discussion to "one and all." Our object is to render justice to every one. Communications, in all cases, must contain the author's name and address to insure publication, which will be kept *strictly confidential*—otherwise no notice will be taken of them.]

Ophir Dividends—Liberality *vs.* Litigation.—If, in the settlement of the late extensive sales in Ophir dividends, which was cancelled by the purchaser paying to the broker of the seller their respective commissions, is to be considered, as it is by the majority of Brokers, an act of liberality, we would like to be enlightened as to what the term "liberality" means; and, furthermore, we would like to know what position the seller would be placed in if he had thought proper to hold the purchasers to their contracts, and afterwards been proven against the seller that he was well aware when disposing of the said dividends that there would be no dividend declared that month, from the very fact that if the balance of the trustees decided to declare one, he had the control in votes to defeat their object. Our readers will remember that there was no dividend declared, and much excitement prevailed at the time among outsiders and members of the different boards. So, to have no further trouble about the matter, it was formally fixed up as we have stated above; not, however, until one of the heaviest purchasers, not to be "duped" so easily, gave the seller to understand the exact position he (the seller) stood in, according to the proofs he had obtained, and, what is more, could substantiate. The report was that ten dollars, at the least calculation, could have been declared that month; but the seller of dividends could not "see it," or rather would not. Now we maintain that if this *pretended act of liberality* had not been tendered to the many victimized and deluded purchasers, it would have proven a serious affair to the "would be" shrewd operators in dividends, providing that our information is correct, which we have every reason to believe, coming from whence it does. We would like to ask where is this liberality?—where does it exist in this transaction? Did he not do only an act of compulsion to save his own reputation and a siege of litigation? Why, then, should he receive the praise that so many have accorded him? It was not our intention to refer to this unpleasant transaction again, but really it is so provoking to us to be continually hearing from day to day, upon the streets, about this wonderous act of generosity, and, as we consider these the true facts of the case, thus it is so we consider it our duty, as a public journal, to give the "why's and wherefore's" he was prompted to such an act. Another thing, we believe it is not customary among brokers and operators in stocks to let buyers off so readily when they have what they term "a good thing," and the right on their side to hold the buyer to the very letter of his contract. The idea of the seller doing this simply to "teach brokers and operators in stocks a lesson not to buy dividends," is, vulgarly speaking, "played out."

A Sharp Transaction.—We have been informed of a sharp transaction which took place a few days ago, between an extensive operator and holder in Savage stock and a well known French firm in this city; the particulars are these: The operator in Savage ascertained by some method that the firm in question had sold some property and the purchaser in part payment had paid some twenty-eight feet of Savage G. & S. M. Co. stock. In the meantime the operator received a letter stating that the Savage G. & S. M. Co. had struck it exceedingly rich, and that the indications were surprising, and, of course as soon as the information got on the street, up would go the stock, and now was the time for the operator to use his inventive faculties to procure the twenty-eight feet without arousing the suspicions of the holder, so off he started to the French firm, when the following conversation ensued. "Well! I hear you have some Savage," said the operator, "do you want to sell it?" "No sir," remarks the representative of the firm. "Then," said the operator, "do you wish to purchase some, if you do I will sell you a little for twenty-eight hundred dollars cash?" "Oh!" replied the representative, "I should think you would. I would sell mine for that price." No sooner were the words uttered than the operator cried out, "Sold! call at my office and get a check for the amount," and then left the bewildered representative of the firm, wondering why he was picked up so quickly. It did not take him very long to ascertain the news, and learn to his sorrow that he was a loser in profit on the rise of the stock, to the disagreeable tune of $14,000. Moral:—Always make inquiry before you place a price upon your stocks to anxious purchasers, and especially those who have the name of being posted.

Complimentary.—We notice among the list of passengers who took their departure for the East on the steamer St. Louis, Feb. 3d, the name of our much esteemed friend, Mr. James L. Pond, of the firm of Messrs. Chapin & Pond, Stock Brokers, of this city. Mr. Pond was the original discoverer and locator of the famous Pond mine. We learn that it is not his intention to remain away long. We wish for him a pleasant trip, and a speedy return to the "Golden State."

Pacific Board of Brokers.—The semi-annual election for officers of this Board took place on the 2d of February, when, after a spirited contest, the following gentlemen were declared elected: President, W. P. Deneka; Vice President, Wm. P. Dewey; Secretary, James H. Gager; Treasurer, W. H. Francis; Sergeant-at-Arms, Charles H. Watson.

What a Contrast!—On the morning of the 2d inst. a report was current on the streets to the effect that the Real del Monte mine had given out, and, furthermore, that it would prove just such another mine as the Wide West. This report was set in action by a certain clique of "stock sharpers," to frighten the timid ones to sell. It had its desired effect, by causing many to sell at low rates, while, of course, the "knowing ones" purchased extensively. On the evening of the same day, the Real del Monte Company received bullion to the value of $31,000, being the proceeds of *only* ten days work on this famous mine. This don't look as if this mine had "given out" in any other sense than in an abundant yield of bullion.

The Maxwell Creek Gold Mining Company have declared a dividend of one dollar per share, payable to-day.—*Evening Bulletin, Feb. 3d.*

Gracious heavens! can it really be possible that we have one more mine to place upon our list as a dividend-paying institution. Well done, thou good and faithful Maxwell mine, for, after six years working, thou hast seen fit to compensate thy sanguine owners with the immense sum of one dollar per share dividend. Wonderful! truly wonderful!

Lost.—The Chollar Mining Company have lost their lead, and they offer a liberal reward for the recovery of the same. Further particulars can be ascertained by application to the Trustees, or, in fact, to any of the unfortunate purchasers who bought into the mine, at figures ranging from $1,600 and upwards per share. A liberal reward will be paid promptly when (the public are) satisfied that it has been found. No questions asked.

Gem of the Sierras.—From six thousand and five hundred pounds of rock recently taken from this mine and crushed at Fall's mill, Unionville, five silver bricks were obtained, weighing in the aggregate, fifteen hundred and eighty seven ounces—value, $1,500. This speaks well for Humboldt.

[For the Mining and Scientific Press.]

THE MINERS' LABORATORY.

Assaying Copper Ores.

ASSAY OF COPPER ORES CONTAINING TIN, ARSENIO, LEAD AND BISMUTH—BASED UPON C. MOHR'S METHOD.

When ores contains the above substances, in addition to copper, as in the process described last week, pulverize the ore very fine, weigh out 25 grains of ore, very carefully, and place the ore in a small porcelain crucible, one that will hold about two and a half ounces of water, and instead of adding to it nitric and hydrochloric acid, add a mixture of equal quantities of nitric and sulphuric acids. Cover your crucible with a large watch crystal, and evaporate very slowly; when it is nearly dry, add a few drops more of the mixed acids, and repeat this operation when it is on the point of becoming dry, three or four times. Finally evaporate to dryness. Remove your watch crytal and heat the crucible and contents thoroughly, and continue it in that condition until the white fumes, you will observe going off, are completely driven off. Allow to cool now very gradually; remove from the sand on the stove. When sufficiently cold, add hot water, say one ounce; allow the whole to stand for about ten minutes. Add a little more water, filter, wash the residue on the filter, several times, with boiling water. To your clear solution add a few drops of hydrochloric acid; should a white curdy precipitate be formed, it is silver. Add then a few more drops of hydrocloric acid. Heat slowly. After the precipitate has settled down on the bottom of the beaker, add a few drops more of hydrochloric acid. If a precipitate is not formed, all the silver has been thrown down. Filter now; wash the precipitated silver on the filter, several times, with hot water. The filtered solution contains all the copper. Now immerse in this a piece of polished iron, and proceed as in the other assay.

SILVER MOUNTAIN.—A letter from an old friend gives us the following information from this imporant mining district:—The town is about one-quarter of a mile long and about one-sixteenth in width, situated between mountains from 6,000 to 7,000 feet in hight. The lots are fifty feet by eighty feet in depth and are well fenced. The old story of "feet plenty and money scarce" applies here, just now. There is no doubt existing among the settlers of Silver Mountain in regard to the general richness of their mines. Wood and water abound in plentiful supply. Two saw mills are already in operation, and two more will be completed in the Spring, with four or five quartz mills. We hope our hard working friend, who unsuspectingly furnished these items for our journal, will be abundantly rewarded for his toil in this new gold, silver and copper field of Amador county.

BALD EAGLE—CONSOLIDATED.—This is a California Incorporation. The company's mine is located on Gold Flat, near the city of Nevada, and in the immediate vicinity of the celebrated Sneath & Clay, one of the richest gold mines in the State. The Pittsburg mill and mines, now owned by Wickes & Co., are also in the same vicinity and all within a line of a few rods. The latter has been successfully worked for some twelve years, and is now paying better than ever. The rock in all three of these mines presents similar characteristics. The location is one with which we have long been familiar and we trust our friends of the "Bald Eagle," when they get *their* mine thoroughly opened, will find it equally as valuable as that of either of their neighbors. Mr. T. L. Bibbins is Secretary of the company. His office is in the new building at the corner of Montgomery and Pine streets, in this city.

A MINERS' HOSPITAL.—The establishment of a Miners' Hospital is among the measures now before the Nevada Territorial Legislature. An institution of this kind is greatly needed, both in that Territory and in California.

OWENSVILLE MINES.

At the upper crossing of Owens river, about forty miles above San Carlos, a new town has recently been laid out, called Owensville. This town bids fair to become the centre of a large and important mining region, which has already been divided off into four districts, as follows: Keys, White Mountain, Slate Mountain, and Lone Pine. These mines were first discovered in the White Mountain district, which was laid out and organized in the spring of 1861. The other three districts have been successfully organized during the past summer. This region includes several large and fertile valleys, covered with a luxuriant growth of native grass, and all susceptible of a very high state of cultivation. Bishop's Creek Valley, on the west side of the river, and directly opposite Owensville, is about ten miles square. It has already been sectionalized by the Government Survey, and is now fast filling up with settlers. Over one hundred quarter sections have been located within the past three months.

There is also a large tract of agricultral land in Deep Spring Valley, adjacent to the mines in the White Mountain district, and not yet occupied by settlers. Aurora and all the mining region known as Esmeralda, will soon derive its supplies of grain, hay and vegetables from Bishop's Creek Valley.

North of Bishop's Creek Valley, and some twenty miles from Owensville, there is a large forest of very superior timber, equal to anything in California. This track is about ten miles square, and will eventually become of great value. In fact, it already presents a fine opening for the employment of Capital. The first company which puts a saw mill into this timber will be sure to realize a fortune. There is already a saw mill on Big Pine Creek, about fifteen miles below Owensville, and the only one in all the region watered by the Owens river. This mill is scarcely able to supply the wants of its immediate vicinity. Lumber, here, is now worth the whip-sawing price—from $100 to $150 per 1,000 feet.

All the hills, in the valleys and about the mines, are covered with a sparse growth of Piñion, which affords a very good timber for fuel and mine timbering. Steam power will never be needed in any portion of this region, as an abundance of water power may be had from innumerable mountain streams, which abound everywhere, both in the agricultural and mining districts.

The mines are chiefly silver, carrying also much gold and copper, and are generally found in a slate formation. The veins are from two to twenty-five feet thick, with a northerly and southerly direction and but slightly inclined from a perpendicular. Mr. M. Page, an old prospector, well acquainted with this region, from whom we have obtained the above particulars, has left with us a large number of specimens from the different ledges, nearly all of which bear a strong resemblance to the Green Eyed Monster and Eclipse ledges, which are well known in this city, and which are located about forty miles to the south.

There are twenty-five houses already up and in process of erection at Owensville; in the immediate vicinity of which place there are now fully 400 inhabitants; and not less than 250 in the White Mountain and adjacent districts. Miners and agriculturalists are constantly going into this region, chiefly by way of Visalia and Keysville or Walker's Pass.

A new road will soon be opened from Millertown, *via* the head waters of the San Joaquin, which will intersect the Los Angeles road, at Owensville, reducing the distance to these mines, as at present traveled, fully 200 miles.

PICK SHARPENING MACHINE.—The Editor of the Grass Valley *National* has seen a machine for sharpening picks, the invention of an ingenious mechanic of that town. The machine, says the *National*, works well. If it does so, and economises time and labor, it is a valuable invention.

Esmeralda Correspondence.

ESMERALDA, Jan. 19th, 1864.

FRANK WARDDELL, ESQ:—In my last letter I gave you a passing description of the future prospects of Esmeralda, as it then appeared. Now, I will give you a few more items, or rather facts, from this place. When the Aurora and Sonora wagon road is completed, and from the fact that Aurora must be the diverging point to numerous other mining districts, including Owen's River Valley, and also on a direct line to Reese River, it is evident that this place must build itself a reputation, as standing not only as one of the highest cities in the world, geographically, but in richness and prosperity. Yet if we were to lay aside this advantage, and examine the mines as they are—and not like J. Ross Browne, in his "Peep at Washoe," by imagination only—but go over Silver, Last Chance, and Middle Hills, and through the principal mines that are being successfully worked at the present time, even the most absurd thinker would say that Aurora, with her mines alone, has a foundation for a city that will grow as if by magic, and stand as a bright emblem to the world for ages to come. The wheel of Time has again rolled over, and has already started on its next revolution. During the last two months it has been very dull here, and money has been scarce. Such is the case in nearly all places at the close of the year. But 1864 has changed the aspect of things. The three principal mills that are being worked present cities within themselves. Not only by day are to be seen hundreds of miners wending their way to their respective places of work, but by night the busy scenes are like observable. The Antelope Co., on Silver Hill, are working more men now than ever before; the rock that is now being taken out is exceedingly rich; their mill on Bodie Gulch will be running in a few weeks, then look out for a big advance in their stock. It is already going up. The Utah Co. continue to work their ledge with energy. The rock pays well. The Cortez Co. are working day and night. It is not too much to say that they have got one of the richest claims in the district. The New York Consolidated is within the limits of the same rich belt. This company have a well-defined ledge, and take out rock full of the precious "oro." The few tons that are piled up at the mouth of the shaft will bring them in rich returns when crushed. The Iowa Co. have a house over their shaft, and are pushing ahead. From the bottom of their shaft they are getting good rock. I send you these "brief mentions" that you may know what Esmeralda has done and is doing since you left. In my next I will give you some facts concerning the other mills in the district. Respectfully yours, ****

STAGE LINE TO WASHOE.—We would call the attention of our readers to McCue's Washoe Stage Line, advertised in our columns to-day. McCue is an old stager and has been running for the past six years. He always takes his passengers through within schedule time, and has never met with an accident. The stages now leave each end of the route upon alternate days. A daily line will be put on next month. The Henness Pass is an easy and expeditious route by which passengers can reach Virginia City.

STREET RAILROADS IN NEVADA TERRITORY.—A Company is before the Nevada Territorial Legislature asking for a grant to construct a railroad along the streets of Virginia City and extending the same through Gold Hill. The Company offers to pay for their franchise a yearly county tax of $50 on each car employed upon the road—the charter to continue for fifty years.

A STOCK BOARD has been formed at Gold Hill, Nevada Territory, with the following list of officers: O. H. Platt, President; Samuel Arnold, Vice President; G. W. Pease, Secretary, and H. G. Maynard, Treasurer.

Patent Department.

Perpetual Motion.—Mr. John M. Petterson, of this city, thinks he has accomplished the "mechanical impossibility" of producing a perpetual motion, from which an available working power may be derived. At all events, he has taken the preliminary steps to secure letters patent, through the Mining and Scientific Press Agency. We shall probably be allowed to give a description of this simple, yet ingenious piece of mechanism. The inventor feels sanguine of success.

Pump Improvement—*A California Invention.*—This invention relates to an improvement in a pump for which letters patent were originally obtained in 1861. The improvement for which additional letters have just been obtained relates to an improved method of securing the air-chamber to the valve-chest of the pump, whereby a firm and durable connection of the above named parts is obtained, and one which will admit of being manipulated with the greatest facility, in order to secure the air-chamber to the valve-chest, and to detach it therefrom. The inventor, in his specifications, claims the combinations of the swinging screw bolts, C, and slotted plates, a, with the valve-chest, A, and air-chamber, B, in the manner specified. Thomas Hansbrow, inventor, Sacramento, California.

Apparatus for Concentrating Ore—*A California Invention.*—This invention relates to an improvement in the manner of sluicing or separating the *gangues* and rock or earthy matter from the ores of valuable metals after the same has been reduced to powder by stamping or crushing, so as to effect by the automatic action of water a perfect separation of the ore from the rock in which it was disseminated. This apparatus has already been noticed in our columns as in operation near Mokelumne Hill, in this State, where it has been successfully introduced for concentrating copper ores. It consists of a common sluice through the bottom of which an upward current of water is made to pass, and through which the heavier particles of ore or metal will pass, while the lighter or earthy portion of the mass to be worked is carried out of the mouth of the sluice. ames Hepborn, of Mokelumne Hill, California, is o inventor.

A New Blasting Powder.—Cincinnati papers nounce the invention, in that city, of a new kind blasting powder, much cheaper and far more powerful than any hitherto employed. It is said that eig pounds of it moved a rock twenty-five by thirty fee nd eight feet thick. It costs only three dollars keg.

A ew Painting Press.—James Gordon, a young farmer rom Caledonia, New York, has exhibited the model a new printing press of his own invention, which ombines several novelties, the utility of which can onl be determined by actual trial. The press prints b sides of the sheet at one feeding, one form bein on a flat bed, the other forming the segment of a linder. Its speed is calculated at 3,000 sheets an hr; its cost but little more than that of the large T or press. The cylinder form does not, as in the H press, make a complete revolution, but turns partia and returns. Gordon is a farmer, with mechan al genius. His only knowledge of presses was rived from seeing an ordinary Taylor press, in a P ester office, and he resolved to improve upon it.

A Magnetic n.—A Frenchman has recently invented a magn c pen uniting two metals capable of producing the ltaic current, which is excited by the moisture of hand. It diffuses a healthy and curative influence er the whole body of the person using it, acting on nervous system.

An Important overy.—It has recently been discovered that pres may be photographed on steel, and that an e ving thus obtained will give 5,000 copies. Illus ed books may soon become the rule rather than exception.

The Mining and Scientific Press Patent Agency,

OFFICE, 57, GOVERNMENT HOUSE, SAN FRANCISCO.

Information About Obtaining Patents.

The Patent Law Amendment Act, of March 4th 1861, and March 3d 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of n day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent? A positive answer to this question is only to be had by presenting a formal application for patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the Mining and Scientific Press. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Preliminary Examinations.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search, made at the U. S. Patent Office, Washington, through the medium of our associate in that city, to ascertain whether among all the patents and models there stored, any invention can be found which is similar in character to that of the applicant. On the completion of this special search we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollars. This search, though it involves the expense just named, will usually prove satisfactory. If the same device has been before patented, the time and expense of constructing models, preparing documents, etc., will in most cases be saved; if the invention has been in part patented, the applicant will be enable to modify his claims and expectations accordingly. Many other obvious advantages attending the Preliminary Examination; although the strictest search does not always enable the applicant to know positively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publication; or some other person has been previously rejected on an analogous device; or some other invention for a similar purpose, but partially resembles the applicant's in its construction; or the Government makes an unjust or uncommon decision. Against none of these contingencies does the Preliminary Examination provide; it will, however, generally inform the applicant whether an improvement similar to his and used for the same purpose has ever been patented or not in this country.

Persons desiring the Preliminary examination are requested to remit the fee ($10), and furnish us with a sketch and description of the invention.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian, Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of governments that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues.—If the application is rejected we cause a thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have excess to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client. For this service we make no charge. If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The laws requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimensions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: Dewey & Co., Mining and Scientific Press, rooms 56 and 57, Government House, corner of Sansome and Washington Streets, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail.—The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due, and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued, the applicant will be notified to remit the last installment of the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Return of Models.

Under the new law, if the applicants case has been rejected he is entitled to withdraw his model from the Patent Office.

This law applies to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expense.

Application for Patents, Designs, Trade-Marks, Labells, etc.

Under the new law patents may be taken out for any new form of any article, also for tools, patterns, castings, machine-frames, stove-plates, borders, flames, etc., also for designs for printing, weaving or stamping upon silks, calicoes, carpets, oil-cloth, prints, paper-hangings, and other articles. Trade-marks, labels, envelopes, boxes and bottles for goods, may also be patented; likewise all works of art, including prints, paintings, busts, statues, bas-relief, or compositions in alto, or basso relievo, new dies, impressions, ornaments to be placed upon any article of manufacture, architectural work, etc.

Our facilities for the prompt preparation and securing of patents are of the most extensive character and our charges are very moderate.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the tariff of fees established by law:

On every application for a design, for 3 years and six months	$10
On every application for a design, for seven years	15
On every application for a design, for fourteen years	30
On every caveat	10
On every application for a patent	15
On issuing each original patent	20
On filing a disclaimer	10
On every application for a re-issue	30
On every additional patent granted on a re-issue	30
On every application for an extension	50
On the grant of every extension	50
On appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, D. C.	25

Infringements.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunction from the Court, to an arrest of or prohibition from the employment of his machinery, shop, works, factory and men in production of the article.

In addition to injunction the infringer is liable to be mulched in treble the amount of damages awarded by the jury. The maker, the workman, the seller, and the purchaser, if a user, are all liable either collectively or individually.

Having access to all the patents, models, public records, drawings and other documents pertaining to the Patent Office, we are prepared to make examinations and give opinions upon all infringement questions, advise as to the scope and ground covered by patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Appeals.

In rejected and other cases, the new law provides for an appeal from the Examiner-in-chief to the Commissioner in person, on the payment of a fee of twenty dollars. A further appeal may be taken from the decision of the Commissioner to the U. S. Court, of the District of Columbia. These appeals are heard by any of the Judges before whom the applicant elects to bring the case. No Jury. All the papers, models, etc., are sent by the Commissioner to the Judge, who then reviews the case, and either sustains or reverses the Commissioner's decision.

The party taking the appeal pays an additional fee of twenty-five dollars. The Judge appoints a day of hearing. The applicant can appear in person or by counsel to state his case and file a written argument. Five days are allowed the opponent to put in an answer, and a similar period to the appelant for a closing reply.

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FAVORABLE TO INVENTORS.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the MINING AND SCIENTIFIC PRESS, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

San Francisco:
Saturday Morning, February 6, 1864.

HO, FOR THE MINES!—The beautiful weather which has prevailed for the past few weeks, appears to be taken for pretty conclusive evidence that winter is well over, or rather, that the present is to be a year *without a winter*! Thousands of miners who have been hybernating in this city, for the past two or three months, are beginning to think seriously of once more taking their departure for the mines. Every up-river boat takes away crowds of such persons. It would be well if hundreds of idlers who are lounging about this city with "nothing to do," would early take their departure for quarters where there is ample room, and work for all who are willing to use the pick and shovel. The mountains are full of mines that will at least pay for the working. Then don't be lounging about the streets in this city, when you can, in two or three days, place yourselves where you will not only be able to make a comfortable living, but do the State and Nation a service as well, by aiding to open our mines, and develope the mineral resouces of the country. Ho, for the mines, boys!

We understand that a prospecting company is in process of organization, in this city to proceed to the northward of the Boise River, to some new diggings in that direction. The Company will take along a very superior outfit, and will go well armed. They take a small howitzer, to wake the mountain echoes as they move along. Such an arm will prove a powerful incentive to friendliness on the part of the Indian dwellers in those distant regions.

DEFERRED ARTICLES.—A letter from our traveling correspondent, dated at "Murphy's"; a communication from "An Observer" in Esmeralda; the first number of a series of articles on the geography, topography, geology and mines of the Great Basin, by "J. E. C."; a communication on "How to get to Reese River," with table of distances, etc., are unavoidably postponed until next week.

ELECTION OF OFFICERS OF REAL DEL MONTE MINING COMPANY.—The stockholders in the Real del Monte Mining Company, at their recent annual meeting, elected the following officers for the ensuing year: President, R. E. Brewster; Secretary, J. W. Willard; Trustees, R. E. Brewster, Asa T. Lawton, Wm. M. Lent, Alex. Gamble, Wm. N. Norris.

THE large space occupied by Prof. Whitney's Address, has compelled us to defer our usual illustration for the present week.

THE FOUNDRY BUSINESS of San Francisco is rapidly increasing and has already arrived at such a degree of perfection and importance that our foundrymen are now prepared to turn out every class of work which is called for in our ordinary commercial and industrial pursuits. The massive pinion wheel, cast by Goddard & Co., on Saturday last, elsewhere more fully noticed, and the heavy shaft manufactured by Donahue & Co., last winter, for the Moses Taylor, are proofs of the correctness of this assertion. What we now greatly need is a rolling mill of graduated capacity for the production and re-rolling of bar iron, when our facilities in that direction will also be fully provided for.

Early measures should be taken, however, aided by government subsidy, for the erection of a foundry and rolling mill of large capacity, for the production of heavy government work—such as the casting of the heaviest class of ordnance, and the rolling of heavy plates for armored war ships. Our isolated position renders the early establishment of works of such a character of the utmost importance, especially when we take into consideration the present threatening aspect of the European political horizon.

We have, at the present time, no less than twelve firms actively engaged in the foundry business, in this city, who unitedly represent a capital of not less than $2,000,000, and who give employment to about 1200 men. These foundries, during the past year have turned out fully $3,000,000, in value, of work. They are all constantly crowded with business, generally having orders on hand from two to three months ahead. Nearly or quite all these establishments have enlarged their working facilities during the past year, and most of them contemplate still further improvements during the year to come. The field for mechanical employment, of this description, in San Francisco, is almost boundless in its future aspect. San Francisco must ever continue, as it is, the machine shop, as well as the commercial centre of the Pacific coast.

A VALUABLE PAPER.—PROF. WHITNEY'S ADDRESS BEFORE THE MECHANICS' INSTITUTE.—We devote a large space in our columns to-day to the lecture of Prof. Whitney. This address is one of much value, and should be carefully perused by every person at all interested in the wonderful mineral developments which are now making such gigantic strides throughout the Pacific slope. The Professor gives us a brief review of mining on this Continent from its commencement to the present time, and closes by enforcing the the importance of some systematic governmental action, whereby the lights of science may be brought to aid the miner in his efforts; showing by comparisons between results in our own and other mining fields, the great advantages to be derived from such aids. We commend a careful perusal of the address to our readers generally. We are under many obligations to the Professor for the favor of his manuscript, by which we are enabled to lay the address before our readers. Applications from abroad have been made for the delivery of the address in other places. The present publication, however, relieves the Professor from such necessity, and still admits of its being placed before the great body of our citizens, who take an especial interest in the matters of which it treats.

THE WINE WEST MINING COMPANY.—An adjourned meeting of the stockholders of this company was held on Wednesday last, to receive the report of a committee appointed at a previous meeting to investigate the affairs of the company. The report was full in details, and completely dispelled the suspicion, if entertained, that the stock had been, at any time designedly depressed in value. The entire receipts and disbursements of the company were subjected to rigid scrutiny and pronounced correct in every particular. The report is on file at the office of the company, 113 California street, where it may be examined by stockholders. Mr. Dean having resigned, the secretaryship of the company, Mr. John F. Pope has been elected to fill the vacancy.

MINING SHARE MARKET.

The Mining Share Market, though ruling rather quiet, has fully continued the large amount of business which characterized the past month. But little fluctuation has been noticed, and prices have generally been well sustained, especially in leading stocks. The amount of business foots up $1,521,896,75.

Ophir has fluctuated from $1,490@1,550; 336 shares have changed hands at rates between the figures.

Gould & Curry opened at $4,925, advanced to $4,940 and 4,950, buyer 15 days. The directors have declared a dividend of $125 per foot for January, payable on and after the 8th—equal to 2½ per cent. on the market value of the stock.

Savage still continues in favor at $3,325@3,375, buyer 30 days, holders firm. The directors have declared a dividend of $50 per foot for January.

Challar has materially improved, and still continues to be largely dealt in; opening at $350 it soon advanced to 400, but subsequently declined to $370. Another assessment of $60 per foot was levied on the 25th ult., making $270 in all. Much speculation still exists with regard to the condition of the company's mine.

Lady Bryan has again become the chief feature in the market, having been largely dealt in at improved rates. We quote sales of 2,638 shares, upwards of one half of the entire stock of the company, at from $60@70, closing at 66. The impression appears to be gaining ground that the company possesses a really valuable mine.

The Desert is but little inquired for, but is held at from $24@28.

Burning Moscow has still further declined, and may be quoted at $105@110, buyer 30 days. We report sales of 368 shares from $91@110, buyer 30 days. The company have opened their works through into the upper shaft of the New Orleans, a collision from which no trouble is expected, as the two companies are not in litigation.

Baltimore American has been more active, at about last quotations. We quote sales of 330 shares from $39@44.

North Potosi has become quite a feature in the market; 934 shares, nearly one half the stock, have changed hands since our last issue, at rates still improved. Opening on Saturday last at $50 this stock touched $75 on Monday, but gradually declined to $70@72½ at yesterday morning's Board, and to $65 in the afternoon.

North American has been largely enquired for at an important advance. Opening on Saturday at $85, these shares gradually advanced until they reached $117½ at yesterday afternoon's Board, at which figure they remain firm. A large business has been noted, 781 shares having changed hands.

Harmon, El Dorado county, has met with sale at rates largely fluctuating, from $16@30, closing $18½; 272 shares have changed hands at the above rates.

North Ophir continues to be enquired for at about previous quotations $7@9.

We quote Hale & Norcross at $1550; Bassett, $37½, (this company is about putting up hoisting machinery,) Rhodes Diggings, $5: Iowa, $40@45; Napoleon, (copper) $55; Buckeye $13½; Mountain View, $10; Burgess, $17¾; Mount Hope considerably enquired for, from $9@12½; Baltic continues at about last quotations, from $165@170; Golden Swan, $35; Melones finds purchasers from 60@65; Burnside, at $15@18; Kohler Bro's. at $5; Gandaloupe, at $15; Independent, at $10; Sea[illegible], $15@16½; Rock Island, $16½; Tri-Union, at $9: Christiana, at $10; Petroleum Oil Works, at [illegible].

El Dorado has been considerably sought after at from $52@54—closing at $60. Shares the number of 141 have changed hand at from [illegible]@60.

Belcher is inactive; $20,000 in bullion has recently been shipped form this mine.

Iowa is inactive. We quote sales of 10 shares at $40@45. The ledge of this company is improving.

We quote Hale & Norcross at $1,550, buyer 30 days; Imperial at $195@185; Nevada (Justice Ground we quote 215 shares at 105@120, buyer 30 days; Gold Hill Quartz Mill[illegible] purchasers at $280 per share; Daney at $75; Charles Cany—70 shares from $8@10; Pride of the West $90@100; Michigan $30; Shawmut, 80 are from $29@30; Adriatic, 136 from $6½@10; Davisou Tunnel 215 from $2.87@4; Sierra Nada 55 shares $77½@82; Yellow Jacket 145 shs from $850@900; Lafayette, 172 shares from $[illegible]17; Caledonia Tunnel 57 shares from $25@; buyer 30 days; Blue Ledge 150 shares at $8@4; Laurel Hill, 100 shares at $3½.

Real Del Monte has still further declined, with an increasing business. We see sales of 1,725 shares

at from $120 @ 170 buyer 30. These shares opened on Saturday last at 160 reached 170 b. 30, on Monday, from which figure it gradually declined to 126 cash @ 140 buyer 30 days.

Campton (Esmeralda) appears to be attracting some attention. These shares found purchasers, last week at 6 @ 7. They opened on Saturday last at 9, and gradually advanced until they touched $25 on Friday.

Greenville is another new comer from Esmeralda, which has found purchasers for the last two weeks at 20 @ 21. This mine is located on Last Chance Hill. A crushing of 40 tons of rock, some ten days since yielded a fraction over $87 per ton, according to the Esmeralda *Star*.

Utah—we quote sales at $20@22½; Josephine, (Coso) at $1; Lord Byron at $11; Silver Hill, $13 @14; Wide West, $29@30; Antelope, inactive; Willow Springs, $1½; Coso, $4¾.

Humboldt Sales.—Cuba 10 at $4; Ben. Franklin, $5.

Reese River Sales.—Eriesson, 25 at $10; Idaho con. unassessable, at $10; Idaho con. $11½; Crockett, con. $16@21; Standard, $35@37½; Broderick, $10½.

Owens River.—Golden City, at $9¼; Victory, unassessable, $7½.

WASHOE STOCK MARKET.

Collated from the Daily Reports of the Virginia Daily Union, to Monday evening, February 1st.

Business for the week closing with our latest dates has been more than usually brisk. A growing feeling of confidence appears to be obtaining in this market. Capital from this city is finding its way over the mountains for investment. The transactions of the week foot up much larger than usual. An especial activity appears to be manifest in Gold Hill and American Flat stocks—partienlarly in the latter. The Lady Bryan, in the Flowery district, is still looked upon as a most promising mine, and is steadily advancing in favor. Desert is somewhat less in demand, but is nevertheless held quite firm.

Virginia District.—Burning Moscow, $112 asked. Bajazet & Golden Era, 25 bid; 50 asked. Granada, 2 50 asked. Iowa, 200 asked. New Orleans, 15 asked. Kenosha, 10 asked. Milton 55 asked. Spanish No. 2, 4 50 asked. Sutro, 6 asked. Birdsall, 25 asked. El Dorado, 40 bid. Kenosha, 10 asked. Milton, 30 bid; 45 asked. Santa Rosa, 20 asked. Utah, 150 asked. Texas 15 asked. Alban, 22 asked. Honduras, 10 bid; 10 asked. Moss, 14 bid; 20 asked. Mount Davidson, 1 bid; 7 asked. United States, 2¾ bid; 3½ asked. William Penn, 7 bid; 20 asked. Irving, 6 bid. North Potosi, 40 bid; 70 asked. St. George, 12½ asked. Poney Express, 5 bid; 7½ asked. Chollar, 325 bid; 400 asked. East Comstock, 30 asked. Allen, 45 asked. Orleans Flat, 10 bid. Pioneer, 7 asked. Sacramento and Meredith, 80 asked. Seneca, 8 bid. Sierra Nevada, 100 asked. Union, 15 asked. Martelle, 5 asked. Oakland, 5 asked. Church Consolidated, 4 bid. Northern Light and Sunny South, 6 bid. Nevada and Desert, 12 asked. Ponce de Leon, 100 asked. Polo Alto, 3 bid; 15 asked. Philadelphia, 12 asked. Washoe Zephyr, 10 asked.

Gold Hill District.—Amador, 10 asked. Astor, 5 bid; 10 asked. Branch Mint, 11 bid; 20 asked. Belle Vernon, 5 bid. Consolidated Company, 20 bid. Cherokee, 4 asked. Crown Point Ravine, 18 bid; 20 asked. Dardanelle, 9 asked. Eureka, 8 bid. Empress, 22 asked. Frankell, 4.50 bid. Golden Horn, 5 bid; 7.50 asked. Gillmore, 20 asked. Golden City, 7 asked. Golden State, 10 asked. Hawkeye (original), 85 asked. Jim McClellan, 3 asked. John A. Logan, 4.50 bid. Keystone 22 bid; 30 asked. Knickerbocker, 20 bid. Leon, 3 bid; 10 asked. Louisville, 20 asked. Mary Ann, 60 bid; 75 asked. New Oregon, 16 asked. Nevada, 20 asked. Oneoto, 14 bid. Pilot, 7 asked. Rock Island, 13 bid; 15 asked. Robinson, 6 asked. Central Sweezy, 30 bid; 100 asked. San Francisco, 2.50 bid. United America, 20 asked. Vulean, 10 asked. Miantonomah, 15 asked. Uncle Sam, Sr., 11 bid; 25 asked. Native American, 10 asked. Dowd Company, 10 asked. Malacoff, 6 asked. Gentry, 10 asked. Mansfield, 1.50 bid; 3 asked. Dr. Perry, 3 asked. Hooker, 8 asked. LaMotte, 10 asked. Bullion, 45 bid; 70 asked. Baltic, 100 bid. Baltimore American, 30 bid; 45 asked. Caledonia Tunnel, 25 bid; 35 asked. Clinton & Hobbs, 5 bid. Golden Horn, 5 bid; 9 asked. Globe, 8 bid; 15 asked. Golden Gate, 3½ bid; 5 asked. Hawkeye (original), 65 bid; 75 asked. Justice, 110 bid; 135 asked. Jenny Lind, 5 bid. Kentucky, 4½ bid; 8 asked. North America, 85 bid; 105 asked. Napoleon, 8 bid; 10 asked. Overman, 500 asked. Pontiac, 5 nsked. South Midas, 12 bid. Tontine, 20 bid; 20 asked. Vesuvius, 7 nsked. Victor Hugo No. 2, 10 asked. Yellow Jacket, 900 bid. Cuba, 5 asked. Bertrand, 6 bid; 10 asked. Pride of Ameriea, 50c bid; 5 asked. Pony Express, 3½ bid; 10 asked. Koh-i-noor, 15 asked. Grizzly, 4 bid; 6 asked. Belcher, 1,300 asked. Crœsus, 43 bid; 55 asked. Crescent, 5 bid. Colorado, 7 bid; 18 asked. Coppers, 5 bid. Champion, 4 bid; 15 asked. Diligent, 2½ bid. Fairmount, 125 bid; 150 asked. Flying Cloud, 10 asked. Minerva, 325 bid. Michigan, 45 nsked. Massilon, 1 bid; 10 asked. Naragansett, 12 asked. Navigation, 7 bid; 15 asked. Omega, 175 bid; 400 asked. Pond, 15 bid. Pompeii, 10 bid. Repvblie, 10 asked. Retribution, 25 asked. Superior, 200 bid. Sweezey, 40 bid; 250 asked. South Midas, 15 bid. Victor Hugo, No. 2, 15 asked. Wm. B. Astor, 10 asked. Argo, 25 asked. Exeelsior, 18 bid. Golden Swnn, 25 bid; 35 asked. Prineess, 1 bid; 5 nsked. Victor Hugo, No. 2, 20 asked. Wimmer, 12 asked. Sam. Patch, 1 bid; 5 nsked. Jewett & Sheppard, 5 asked. Mayflower, 8 asked. Wnshoe Zephyr, 5 asked. Portia, 5 bid. Gold Canon Consolidated, 10 bid; 25 asked. Curson, 6 asked. Lee, 3 bid; 7 nsked. South America, 20 bid. Union, 12 asked. Yellow Jacket No. 2, 30 asked. Mayor, 15 asked. Silver Veil, 3 asked. Cristo Consolidated, 5 bid. Polo Alto, 4 bid; 15 asked. Mechanics, 5 asked. McMeans & Williams, 4 bid. Nevada Consolidated, 20 asked.

Flowery District.—Adriatie, 16 asked. Atwill, 10 asked. Lady Bryan, 55 bid; 65 asked. Capitola, 15 a ked. Desert, 15 bid. Uncle Sam, 2½ bid; 5 asked. Harrison, 1 bid; 4 asked. Yankee Jim, 2½ bid; 7½ asked.

Devil's Gate District.—Pride of the West, 60 bid; 110 asked. Pioneer, 25 asked. Sebastopol, 5 bid; 10 nsked.

Indian Springs District.—Whitman, 125 bid; 350 asked. Orion, 12 bid; 21 asked. Jackson, 10 bid.

Argentine District.—North Ophir, 4½ bid; 4½ nsked. Shelton 4 bid; 10 asked. Aspinwall, 1 bid.

SALES REPORTED SINCE OUR LAST ISSUE

Five shares Tontine sold at $17; 10 shares dito, at $19; 20 shares Honduras at 8; 3 shares Crœsus at 55; 5 shares Frankell at 6; 10 shares New Oregon at 14; 20 shares Rock Island at 13.50; 100 shares Tontine at 20; 283½ shares of North Ophir at 4.50; 20 do. at 4; 10 do. at 5; 12½ shares Branch Mint at 14; 80 shares Belle Vernon at 5; 20 shares Pontiac at 5; 15 shares Tontine at 21; 50 shares Mansfield at 3; 50 ditto at 1.50; 20, Napoleon at 13; 3 shares Shamrock at 7; 5 shares Belle Vernon at 4.50; 25 shares ditto at 5; 10 shares New Oregon at 16; 50 shares Vulcan at 4; 7 shares North Ophir at 6; 200 shares Nevada at 16; 10 shares Napoleon at 16; 100 ditto at 15; 10 ditto at 16; 10 ditto at 14; 20 shares Arizona at 10; 25 feet Bertrand at 5 per foot; 20 feet Golden City at 2; 20 feet Amador at 2; 10 feet Golden Horn at 7; 20 feet Mayflower at 2.50; 20 feet Bertrand at 6.50; 2½ feet Navigation at 10; 20 feet New Oregon at 8.50; 20 feet Baltic at 170; 10 feet New Oregon at 11; 6 feet Honduras at 10; 5 feet Oneoto at 12.50; 10 feet Frankell at 6; 10 feet New Oregon at 8; 10 feet New Oregon at 10; 10 feet Grizzly at 5; 25 feet Belle Vernon at 5; 4 feet Nightingale at 5; 10 feet Justice at 119; 10 feet Justice at 120—s. 3; 5-6 foot Crown Point Ravine at 15; 100 feet Belle Vernon at 5; 50 feet Sonora at 6; 45 feet Shelton at 5; 20 feet Rock Island at 13.

The Gold Hill Stock Board.—The Virginia Daily *Union*, of Tuesday last, says of this new Board:—It is not generally known that there is a regular Stock Board in our sister town of Gold Hill. The large amount of transactions in American Flat stocks has caused this movement, and if managed right, the institution ought to become self-sustaining. The following sales were made in the Board last evening: Ten feet New Oregon at $14; 10 feet Tontine at $17; 12½ feet Vesuvius at $3.

A Working Assay.—We have been shown the result of the working of twelve pounds of average rock, taken by Peter Davis from near the surface of the Aspinwall and Biglow ledges, on '49 Hill, Amador district, Reese River, N. T., which was reduced at the Metallurgical Works, 616 Merchant street. The Aspinwall produced $295.03, per ton, and the Biglow $162.63. The former lode is ten feet wide. Both claims were mentioned in a letter recently published in the Press.

La Favorita Mining Co.—Some very fine specimens of red oxide of copper may be seen at the office of this company, 429 Sacramento street, containing from 60 to 90 per cent. of copper, with a good percentage of silver. These specimens are very fine and among the best we have ever met with. The mine is located some 200 miles from Guymas, Mexico, from which point to the mine is an excellent wagon road. Wood and water abounds in the immediate neighborhood. The company expect soon to receive several bars of metal taken from the ore at the company's reduction works, which have been erected at the mine, under the direction of their able superintendent, Mr. Thielebein. This is evidently a very valuable mine, and will soon command a high price in this market.

Rio Chico Silver Company in Sonora, Mexico.—We have received the report of the Superintendent of the above named company's mine. From it we learn that the Company have four mines well opened and prospected, and are putting up a fine mill for the purpose of reducing their ores. These works are located on the Rio Yaqui, in the district of Rio Chico, about one hundred and twenty miles from Guaymas by a good wagon road. The whole is under the superintendence of our old friend, the Hon. E. B. Smith, late of Sierra county, who has had much experience in quartz mining, and has the reputation of being one of the most energetic and successful miners in the State. The mines must be very poor if they will not pay under his management.

Steam Boiler Cleanser.—We would invite the attention of those of our readers interested in managing steamboats to the advertisement, in another column, of an antidote for scales and incrustation, which has gained high favor in England. It is now being introduced into use on this coast, and reference will be given to parties using it, on application at the office of the agent, G. Venard, 627 Front street.

Record of New Incoporations.

Taymuck S. M. Co.—Sonora, Mexico. Trustees: J. O. Rountree, W. Glaskin, F. K. Shattuck, F. D. Kohler, John Gieschen. Capital stock, $240,000.

Lotta S. M. Co.—Reese River. Trustees: C. H. Reynolds, S. E. Holcomb, J. W. Wadleigh. Capital stock, $375,000.

St. Helena G. & S. M. Co.—Reese River. Trustees: E. J. Baldwin, Bernard D. Murphy, James Bargin, Jacob B. Former, R. Hndepohl, Capital stock, $100,000.

Aspinwall G. & S. M. Co.—Amador Mining district. Trustees: A. G. Kinsey, R. F. Jenkins, E. E. Elliott, B. J. Hull, J. E. Berre. Capital stock, $520,000.

Arizona Consolidated Mining Co.—Castle Dome district, Arizona. Trustees: R. H. Waller, M. E. Austin, S. Benson, J. H. Miller, G. W. Chapin. Capital stock, $300,000.

Salamander G. & S. M. Co.—Calaveras county, Cal. Trustees: G. W. Smith, Wm. Jackson, H. S. Bartholomew, J. B. Gallagher, John Gallagan. Capital stock, $200,000.

Paget G. & S. M. Co.—El Dorado county, Cal. Trustees: John E. Kincaid, J. Furgeson, James W. Cullen, Benj. Dore, G. W. Paget. Capital stock, $120,000.

Lone Mountain G. & S. M. Co.—Reese River. Trustees: Charles McElney, Wm. H. Head, H. H. Pearson, H. W. Randall, Warren R. Payne. Capital stock, $100,000.

San Jose del. Rosario O. & S. M. Co.—Chihuahua, Mexico. Trustees: Robert Campbell, A. L. Chapman, C. M. Radcliff. Capital stock, $480,000.

Frank Tilford G. & S. M. Co—Amador county, Cal. Trustees: James Phelan, Thos. J. Hensley, Wm. H. Hoburg, Wm. H. Rogers, J. Ward. Capital stock, $100,000.

Sonoma and Shiloh G. & S. M. Co.—Humboldt county, Nevada Territory. Trustees: J. B. E. Cavidier, Andrew J. Shipley, Edward Flanagan. Capital stock, $600,000.

NEVADA TERRITORY.

We gather from the Territorial papers the following names of mining companies which have recently filed papers of incorporation:—

National, Lyon county; General Banks, Amador district; Mammoth Tunnel and Water Co., Amador district; Bickwell, Reese River district; Monte Christo, Amador district; Merida, Amador district; Huron, Reese River district; Dachita, Gold Hill district; Satellie, Gold Hill; Union, Peavine district; Western Reservo, Blue Sulphur Spring district; Princess Alice, Virginia district; Wall Street Mining Company, Blue Sulphur Springs; Jo. Daviess, Gold Hill district; Haven, Virginia district; Exchange, Virginia; Sister Helen, Gold Hill District; Warren; Reese River District; Union Flag, Lander county; Freeman, Austin; Windsor, Clifton, R. R.; Wildwood Tunnel and Water Co., Amador, R. R.; Stangroom, Gold Hill, N. T.; San Juan, Virginia City; Western Reserve, Virginia City; Polan, Virginia City; Scott Consolidated, Virginia City; Maggie, Virginia City; Mattie, Virginia City; Roman Eagle, Gold Hill, N. T.; Mary Alice, Virginia City; Effingham, Gold Hill; American Flat Tunnel Co., Gold Hill; Golconda, Virginia City; Challenge, Gold Hill; Red Ledge, Desert District, N. T.

Cristo Consolidated Gold and Silver Mining Company.—Location, Gold Hill District. Capital stock, $800,000. Trustees: T. H. Moore, J. D. Keely, D. E. Holt, H. P. Summers and F. Black.

Indisputable G. & S. M. Co.—Virginia District. Capital stock, $280,000. Trustees: F. M. O'Connor, E. D. Pepper, Thomas Delaney and Richard House.

West Point M. Co.—Gold Hill District. Capital stock, $900,000. Trustees: W. E. Hale, O. H. Platt, H. H. Flagg, J. Thompson, P. D. Headly.

Dashaway O. & S. M. Co.—Desert District. Capital stock, $825,000. Trustees: R. E. Arick, J. Doyle, C. M. Thomas, C. G. Marsh, L. B. Hastings.

Hale & Hunt G. & S. M. Co.—Capital stock, $500,000. Trustees: W. E. Hale, C. V. Boquest, Wm. Hunt, D. W. Jones, Jos. Tyther.

Native American G. & S. M. Co—Capital stock, $100,000. Trustees: G. K. Reed, C. Bogan, G. W. Grow, Israel Dyson, John W. Bellamy

To Prevent Dampness in Brick Buildings.

During the extended rainy season on this coast, it has hitherto been almost impossible to prevent dampness from gathering to a greater or less extent on the inside walls of brick buildings, especially such as are constructed of the soft, porous brick, almost universally employed in this State. There can scarcely be a doubt but that a large amount of sickness and numerous untimely deaths are annually produced from this cause. Recent experiments, however, have furnished us with a cheap and most efficient remedy for this difficulty, in the now common article of tar—the residum obtained from the distillation of coal, wood, etc.

This substance may be applied, in the manner of paint, to the outer surface of brick or stone buildings. Two or three coats thus applied will render any brick or stone wall perfectly impervious to moisture, and forms a coat upon which paint may be subsequently spread, and at a much less cost than upon the naked bricks, which absorb a large quantity of oil without rendering the walls impervious to moisture for any considerable length of time. The previous application of this tar—which is of a gummy, resinous character, fills up the pores of the bricks, near the surface, and retains its place permanently, or at least for a long period of time. It should be applied quite warm.

Bricks immersed in this substanee, heated to about 200 degrees, according to a statement in Silliman's *Journal of Science*, beeome suitable for use in the construetion of chlorine chambers, also for condensers for chlorhydric acid. A striking example of the preservative quality of this ingredient may be witnessed on the walls of a stone huilding ereeted upon the shores of the Bay of Biseay in 1858. Some of these stones, fronting upon the Bay, where they are exposed to the decomposing influences of the sea-air and salt spray, have beeu actually worn away on all their faces, except those portions which were numbered with figures placed upon them, previous to their beiug laid up. These figures are now presented in eonsidcrable relief, and with much sharpness.

A coat of this substance was applied to several buildings in Grass Valley, Nevada county, in this State, some three years since, which, we understand, stood the weather, last winter, admirable well. although it was almost impossible, during previous winters, to keep the moisture from penetrating the walls in great profusion, even by numerous and heavy coats of paint. We should be pleased to hear from some friend whether it still continues to serve that purpose. The material used in this case, was obtained, we believe, from the gas-works in that place, and was produced from the distillation of pitch-pine wood, which is employed there for the manufacture of gas.

A Wealthy Landholder.—It is said that Abel Stearns, of Los Angeles, is the largest stock and land owner in the United States. His lands are embraced in twenty-one different grants, containing in all over 450,000 acres. Last year he had 58,000 head of stock, 7,000 of which have died within a few months for want of food.—*Exchange.*

Mr. Stearns is now on a visit to this city. We had the pleasure of meeting him a few days since. He is apparently in the enjoyment of a hale and vigorous old age, walks without a cane, and with a firm and elastic step, which gives evidence that the care of his broad acres and "cattle upon a thousand hills" rests lightly upon his shoulders.

Mining Dividends.—The Gould & Courry S. M Co. have declared a dividend of $225, per foot for the month of January, payable on and after the 5th instant.

The Maxwell Creek Gold Mining Co., of Maxwell's Creek, have declared a dividend on their capital stock, payable at their office, 421 Jackson street, on and after the 3d instant.

The Savage Mining Co. has declared a dividend of $50 per foot, payable on and after the 5th instant.

The Publication of Mining Notices in the Mining & Scientific Press obtains for them a more general circulation, among parties directly interested, (in this city and throughout the mining districts of the coast, than can be secured through any other medium. State laws require their publication but once a week, and Secretaries and Trustees can make a material saving of costs to stockholders by ordering their advertisements inserted in the journal most properly entitled to receive their patronage—the weekly Mining and Scientific Press.

JOHN DANIEL,
(SUCCESSOR TO O. GORI)
MARBLE WORKS,
No. 408 Pine street, bet. Montgomery and Kearny, San Francisco.
Mantels, Monuments, Tombs, Plumbers' Slabs, Etc.,
On hand and Manufactured to order.
☞ Goods shipped to all parts of the State. Orders respectfully solicited. 5v8-3m

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CARPENTER AND BUILDER,
No. 109 Leidesdorff Street,
Between Sacramento and California streets, San Francisco.
☞ All Orders for Jobbing carefully and punctually attended to. 5v8-tf

JAS. L. POND, Member Pacific B'd of Brokers. G. S. CHAPIN, Member S. F. B'd of Brokers.
CHAPIN & POND,
STOCK BROKERS,
No. 326 Monigomery street, Up Stairs,
5v8-2m SAN FRANCISCO, CAL.

REMOVAL.
J. R. BEARD, STOCK BROKER,
MEMBER SAN FRANCISCO STOCK AND EXCHANGE BOARD,
HAS REMOVED HIS OFFICE TO
5v8-tf No. 707 Montgomery street, Brokers' Block.

BUSWELL & CO.,
Book-Binders, Paper-Rulers,
And Blank-Book Manufacturers.
No. 509 Clay street and 508 Commercial street, between Montgomery
4v8-tf and Sansome, San Francisco.

C. BEACH,
—IMPORTER AND DEALER IN—
Juvenile and School Books, Stationery,
Kustel's California Gold and Silver Processes of Extraction, Etc., Etc.
No. 34 Montgomery street (opposite the Lick House),
4v8-3m SAN FRANCISCO.

D. NORCROSS,
MILITARY GOODS OF ALL DESCRIPTIONS. NAVY TRIMMINGS AND EMBROIDERIES. REGALIA FOR ALL ORDERS.
Rng17-tf Masonic Temple, No. 6, Post Street.

SQUARZA'S PUNCH.
FIRST PREMIUM
AT THE SACRAMENTO AGRICULTURAL STATE FAIR FOR THE YEAR 1862.
ALSO; FIRST PREMIUM
At the San Francisco Bay District Agricultural Fair, 1862.
MANUFACTORY, WHOLESALE AND RETAIL,
No. 41 Leidsdorff street, opposite the What Cheer House,
j2-tf San Francisco.

San Francisco Board of Brokers.

☞ There will be an OPEN BOARD at their rooms, No. 430 Montgomery street, at 10½ o'clock A. M. DAILY, Sundays excepted.

Parties interested in buying and selling Stocks are invited to be present. By order.

4v8-tf M. G. ELMORE, Secretary.

IMPORTANT INVENTION!
THE SUBSCRIBER OFFERS TO THE PUBLIC HIS
Patent, Double-Action,
WOOL, COTTON AND HAY PRESS,
The cheapest, most effective and most economical Press in use for the above Purposes.

This Press acts by a combination of the three mechanical powers—the Screw, the Lever, and the Wedge.
Its cost is less than any other in use. It operates with less power, more speed, and occupies less space than any other.
To Shippers and Packers of Wool, Cotton, Hay, or any similar goods, or for packing in general, where compression is required, it will be found of great economic value.
It is many action in principle, and can be so constructed as to pack from one to four or more bales, at one and the same time.
The inventor challenges competition with any other machine in use, employed for similar purposes.
The Patentee would make a liberal proposition to any suitable person, with small capital, to take an interest with him in the manufacture and sale of this machine, and for several others of equal importance, the details of which are now completed, and for the manufacture of which he is prepared to make contracts.
All communications or orders should be addressed to J. M. Parry, Patentee, at Grush & Co.'s, pattern and model makers, on Fremont street, between Mission and Market streets, San Francisco, where a model and drawing may be seen.
5v8-tf J. M. PARRY, Patentee.

Business Cards.

WM. P. TAAFFEE,
IMPORTER AND JOBBER OF
Staple and Fancy Dry Goods, Carpets, Duck, etc.,
-tf Corner of Front and Sacramento Streets, San Francisco.

W. P. DENCKLA. A. L. CHAMBERLIN.
DENCKLA & CHAMBERLIN,
Stock and Exchange Brokers,
No. 413 Montgomery Street,
SAN FRANCISCO.
☞ Deeds, etc., for record in Humboldt County, Nevada Territory, received and forwarded. 1-tf

L. B. ADSIT & JOHN J. HALEY,
Stock Brokers,
MEMBERS OF THE STOCK AND EXCHANGE BOARD OF BROKERS and of the PACIFIC BOARD OF BROKERS.
Stocks Bought and Sold only on Commission.
No. 604 Montgomery Street,
1-tf Between Clay and Merchant, San Francisco.

WM. S. LYON & CO.,
Stock and Exchange Brokers,
308 Montgomery Street, corner of Pine,
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QUARTERMASTER'S WARRANTS BOUGHT. THE HIGHEST Price paid for Legal Tender Notes. Open till 9 P. M. 1-3m

H. S. HOMANS,
NOTARY PUBLIC,
And Commissioner of Deeds for Nevada Territory,
MINING SECRETARY, CONVEYANCER, ETC.,
No. 605 Montgomery Street, between Clay and Merchant,
1-1m SAN FRANCISCO.

A. C. MORSE,
Mining and Real Estate Agent,
Office, S. W. corner Pine and Silver Sts., Aurora.
HAVING MADE ARRANGEMENTS WITH MINER S. MARTIN, Esq., one of the principal Stock Brokers of San Francisco, I am prepared to BUY and SELL every description of Mining Stocks in Esmeralda District. tf

ISAAC TABOR. JOHN HILL.
TABOR & HILL
Stock Brokers & Real Estate Agents,
502 Montgomery Street, corner Sacramento,
BUY AND SELL MINING STOCK ON COMMISSION. ARE MEMbers of the San Francisco Stock & Exchange Board, and of the San Francisco Board of Brokers. nov23-tf

ARMES & DALLAM,
IMPORTERS AND JOBBERS OF
WOOD AND WILLOW WARE,
Brushes, Twine, Cordage, Etc.,
And Manufacturers of California Pails, Tubs, Brooms, Etc.,
217 and 219 Sacramento St., between Front and Davis,
2-tf SAN FRANCISCO.

NATHANIEL GRAY,
General Furnishing Undertaker,
641 Sacramento St., corner of Webb, San Francisco. 1

W. H. BAXTER & CO.,
—MANUFACTURERS AND IMPORTERS OF—
HARNESS AND SADDLES,
BRIDLES, WHIPS, COLLARS, SADDLERY WARE, Etc.,
407 Battery St., between Clay and Merchant, San Francisco.
N. B.—All kinds of Work made to order and Warranted. Jobbing done with neatness and dispatch, and on the most reasonable terms. 2-tf

EDWARD BOSQUI & CO.,
517 Clay Street, San Francisco,
Book-Binders, Paper-Rulers,
And Blank Book Manufacturers.
Blanks of all kinds printed and ruled to any desired pattern. j2-tf

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HAVE ALWAYS IN STORE A WELL-SELECTED STOCK OF
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E. C. DAKE,
Dealer in Clothing and Gent's Furnishing Goods,
541 and 543 Washington Street, Montgomery Block,
j2.tf San Francisco.

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JOHN WIGMORE,
No. 423 California St., San Francisco
OFFICE JOBBING, of all kinds, promptly attended to.
j2-tf

Riehn, Hemme & Co.,

ASSAYERS.

☞ Assays made of Ores, Minerals and Metals. ☜

CHAS. F. RIEHN, late U. S. Branch Mint, gives lessons in Assaying, also in Mineralogy and Chemistry, as far as required to become a practical Assayer.

REFERENCE with permission to Messrs. F. Parrot & Co., R. B. Swain, Esq., Messrs. Alsop & Co., Messrs. Donahoe, Ralston & Co. t

G. E. MOORE,

Assayer and Analytical Chemist,

Having established a Chemical Laboratory, furnished with every requisite for delicate Analytical work, is prepared to execute the Assay and Analysis of Ores, Mineral Waters, Guanos, etc., with accuracy and dispatch. No. 612 Sacramento Street.

REFERENCES:—Prof. J. D. Whitney, State Geologist, San Francisco; Alsop & Co., San Francisco; Sather & Church, San Francisco; John Parrott, San Francisco; D. O. Mills, Sacramento. 1tf

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Promptness and Accuracy Secured

BY THE USE OF THE MOST IMPROVED METHODS OF ANALYSIS!

Advantageous Terms for Prospector's Clubs and Mining Companies.

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[FROM EUROPE.]

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Quartz Mill and Reduction Works

ARE PREPARED TO WORK GOLD AND SILVER ORES, IN large or small quantities.

Working assays made of small lots, and all kinds of ores crushed at short notice.

Our new and complete Machinery, will enable us to give results fully up to the merits of rock.

WHEELER & THAYER, Proprietors.

C. C. JONES, Amalgamator.
San Francisco, Oct. 13, 1863. j2tf

HOWLAND, BELL & CO.,

Copper Crushing and Grinding.

Attend to all kinds of Grinding & Crushing,

—SUCH AS—

COPPER ORES, MARBLE DUST, FIRE-BRICK DUST, DRUGS,

And Feed of all Kinds,

All of which will be Ground at the Shortest Notice.

—ALSO—

California Mineral Paint and Mineral Polishing Powder.

Works—No. 537 Market Street.
San Francisco, January 1st, 1864. 1-tf

JOHN TAYLOR,

—IMPORTER AND DEALER IN—

Druggists' and Chemists' Glassware,

And a Full Assortment of Assayers' Articles.

—INCLUDING—

Bullion and Assay Ballances, Furnaces, Muffles, Crucibles, Cupels, Acids, Etc., Etc.

Also—A Full Assortment of Reagents.

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KUSTEL & DEETKIN'S

METALLURGICAL WORKS,

FOR THE REDUCTION OF

SILVER AND GOLD ORES, TAILINGS, SULPHURETS, ARSENIURETS, ETC., ETC. CUPELLATIONS AND REFINING OF SILVER AND GOLD,

Practical Assays for Silver and Gold, in small and large quantities, by Smelting, Chlorination and Pan Manipulation.

WORKS—On the San Bruno Road.

OFFICE—No. 605 Montgomery St., San Francisco. nov7-tf

LEANDER RANSOM,

Civil Engineer and Surveyor,

HAVING BEEN CONNECTED WITH THE PUBLIC WORKS OF the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. Also

State Locating Agent,

AND AS SUCH HAVING THE SALE OF

600,000 Acres of State School Lands.

At the low price of $1,25 per Acre.

TERMS—Twenty per cent in cash and the balance on a credit of several years.

oc7-tf Office, 328 Montgomery streets.

To Quartz Miners.

ALL PERSONS INTERESTED IN MINING MACHINERY ARE invited to call at Donahoe's Foundry and examine my improved Amalgamator. It is unquestionably superior to anything now known for amalgamating Silver and Gold. It works 1000 pounds at a time, and will amalgamate over three tons a day. By the motion of the revolving muller, the pulp is drawn through its centre and passes under it, between the grinding surfaces, to the circumference; from whence it passes again over the muller to the centre, through the holes and between the grinding surface to the circumference as before. Thus a constant circulation of the pulp is kept up, bringing the particles of ore again and again under the muller, and reducing the whole mass to an impalpable powder.

No quicksilver lies between the surfaces to be ground, but at the circumference and centre of the pan where the metal must pass through it as the pulp circulates.

A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S. Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.

sep21

E. W. MYERS. H. C. SOMERS

MYERS & SOMERS.,

The Largest Wholesale and Retail Manufacturers of

OVAL, SQUARE, AND CIRCULAR PICTURE FRAMES,

IN CALIFORNIA.

OVAL PIER AND MANTEL MIRROR FRAMES.

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GRUSH & CO.,

Pattern and Model Makers.

Drawings Made for Engines, Mills, Water Wheels, Mining Machinery, Etc.

—ALSO—

WOOD WORK FOR ALL KINDS OF MACHINERY.

☞ SCROLL SAWING DONE TO ORDER.

Fremont St., between Market and Mission, San Francisco. 3-3m

GEORGE T. PRACY,

MACHINIST AND BLACKSMITH.

Steam Engine, Flour and Saw Mill,

And Quartz Machinery, Printing Presses,

—AND—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED

Nos. 109 and 111 Fremont street, near corner of Mission,

OPPOSITE MECHANICS' MILL,

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HAWLEY & CO.,

—IMPORTERS AND DEALERS IN—

Hardware, Building Materials,

CARPENTERS' TOOLS, AGRICULTURAL AND MINING IMPLEMENTS, ETC., ETC.

3-m Cor. of California and Battery Streets, San Francisco.

D. B. HINCKLEY, WM. E. WORTH. WM. A. FIELD

Fulton Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Gast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First Street, between Market and Mission streets,

3-qy SAN FRANCISCO.

Pacific Metallurgical Works,

North Beach, San Francisco.

THE COMPANY HAVING BEEN TO A LARGE EXPENSE IN enlarging their Works, are now prepared to contract to work any quantity of Gold and Silver Rock, nearer the true assay than any other Company in this Country, or Europe.

G. T. FOUQUE, Superintendent.

S. C. BRADSHAW, Jr., Secretary.
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THE FLORENCE!

A GREAT IMPROVEMENT!

THIS CELEBRATED

NEW SEWING MACHINE

IS ACKNOWLEDGED TO BE

THE BEST IN THE WORLD!

IT MAKES FOUR DISTINCT STITCHES!
IT FEEDS THE WORK EITHER WAY!
WILL SEW OVER THE HEAVIEST SEAMS,
WITHOUT CHANGE OF TENSION!
IT SELDOM, IF EVER, DROPS A STITCH!
IT SEWS WITH SILK OR COTTON THREAD EQUALLY WELL!
IT RUNS LIGHTLY, SEWS RAPIDLY AND IS ALMOST NOISELESS!
IT DOES THE HEAVIEST OR FINEST WORK WITH EQUAL FACILITY!
IT MAKES A STICH ALIKE ON BOTH SIDES OF THE FABRIC, USING ONLY HALF THE QUANTITY OF THREAD NECESSARY FOR THE OLD FASHIONED CHAIN-STICH MACHINES!

WHILE IT POSSESSES ALL THE GOOD QUALITIES OF others, and has many advantages over any and all of them, the FLORENCE is sold at corresponding prices with other first-class Machines. We

WARRANT EVERY MACHINE

To be all that we claim for it, and will give a WRITTEN WARRANTY if required.

AGENTS WANTED in all the principal cities and towns on the Pacific coast.

Send for Circulars and samples of sewing.

DON'T BUY A SEWING MACHINE UNTIL

YOU HAVE

SEEN "THE FLORENCE!"

SAMUEL HILL, General Agent.

111 Montgomery street, between Bush and Sutter, San Francisco, California. j2-3m

Stock Reports.

SAN FRANCISCO STOCK BOARDS.

Sales by the San Francisco Stock and Exchange Board, San Francisco Board of Brokers, and the Pacific Board of Brokers.

[Revised for the Mining and Scientific Press.]

SATURDAY, JANUARY 30, 1864.

S. F. S. AND E. BOARD.

5 shares Rhodes Diggings at $5 per share.
10 shares Burning Moscow at $101 per share.
15 shares Burning Moscow at 100 per share.
10 shares Burning Moscow at 95 per share—s 20.
18 shares North Potosi at $42½ per share.
10 shares North Potosi at 45 per share.
20 shares North Potosi at 47½ per share.
10 shares North Potosi at 49 per share.
10 shares North Potosi at 50 per share.
27 shares North Potosi at 57½ per share
30 shares Charles Caney at $40 per share.
20 shares Bajazet at $57 50 per share—s 5.
15 shares Real del Monte at $160 per share.
5 shares Real del Monte at 158½ per share.
5 shares Real del Monte at 158 per share.
50 shares Real del Monte at 160 per share—r w.
5 shares Real del Monte at 163½ per share—b 20.
20 shares Real del Monte at 165 per share—b 30.
5 shares Real del Monte at 160 per share.
5 shares Uncle Sam at $600 per share.
10 shares Lady Bryan at $61 per share.
45 shares Lady Bryan at 60½ per share.
20 shares Lady Bryan a 63½ per share—b 30.
35 shares Lady Bryan at 64 per share.
3 shares Michigan, G. H., at $30 per share.
8 shares North American at $88 per share.
25 shares North American at 85 per share.
10 shares Pride of the West at $95 per share.
18 shares North American at 85 per share—Tuesday
10 shares Baltimore American at $40 per share.
5 shares Baltimore American at 39½ per share.
2½ shares Pride of the West at $100 per share—b 30.
10 shares Bullion G. H., at $65 per share.
5 shares Greenville, E., at $21 per share.
4 shares Baltic at $160 per share.
10 shares Baltic at 169 per share—b 30.
5 shares Lafayette, G. H., at $12 per share.
10 shares Melones at $60 per share.
8 shares Chollar at $340 per foot.
16 shares Cholbir at 349 per foot.
18 shares Chollar at 350 per foot.
5 shares Savage, $3330 per foot.
3 shares Savage at 3325 per foot.
1 share Savage at 3375 per foot—b 30.
5 shares Savage at 3350 per foot—b 30.
5 shares Savage at 3250 per foot.
4 shares Gould & Curry at $4925 per foot.
1 share California Steam Navigation at $49 per share.
5 shares Spring Valley Water, 50 per cent on amount paid in.

AFTERNOON SESSION.

10 shares North Ophir at $10 per share—b 30.
5 shares North Ophir at 8 per share.
20 shares North Ophir at 8 per share—s 3.
10 shares North Ophir at 9 per share—b 30.
30 shares North Ophir at 8 per share—s 5.
24 shares Baltic at $160 per share.
20 shares Baltic at 167 per share—b 30.
9 shares Baltic at 155 per share.
4 shares Baltic at 165 per share—b 30.
2 shares Uncle Sam at $300 per share.
5 shares Iowa at $40 per share.
10 shares North American at $88 per share.
35 shares Lady Bryan at $61 per share.
10 shares Lady Bryan at 61½ per share.
10 shares Lady Bryan at 62 per share.
10 shares Lady Bryan at 64 per share—b 30.
25 shares Burning Moscow at $101 per share.
20 shares Mt. Hope, G. H., at $11 per share—b 30.
10 shares Mt. Hope, at 10 per share.
10 shares Mt. Hope at 9½ per share.
10 shares Chas. Cany at $10 per share.
10 shares Chas. Cany at 9½ per share.
2 shares Real del Monte at $160 per share.
30 shares Napoleon, copper, at $55 per share—b 30.
15 shares Caledonia Tunnel at $30 per share—b 30.
10 shares Caledonia Tunnel at $27½ per share.
60 shares Ophir at $1500 per foot.
26 shares Ophir at 1500 per foot—s 3.
$6,000 Legal Tender Notes, 67½ per cent—b 30.

S. F. B. OF BROKERS.

MORNING SESSION—OPEN BOARD.

5 shares Harmon at $30 per share.
50 shares Harmon at 25 per share.
10 shares Harmon at 25½ per share.
25 shares Harmon at 25 per share.
60 shares Harmon at 24 per share.
10 shares Harmon at 23 per share.
10 shares Shawmut at $29 per share.
10 shares Buckeye at $13¾ per share.
20 shares Golden City at $9¼ per share.
10 shares Adriatic at $9½ per share.
10 shares Idaho Consolidated, (unassessable,) at $10 per share.
10 shares Bullion, G. H., at $58 per share.
5 shares Crockett Consolidated at $16.

ONE O'CLOCK SESSION.

25 shares Crystal at $3¾ per share.
1 share S. S. F. Homestead at $180 premium.
10 shares Real del Monte at $169 per share—b 30.
10 shares La Madre at $4¾ per share.
10 shares La Madre at $5 per share.
10 shares Lady Bryan at $61 per share.
10 shares Bullion, G. H., at $61 per share—b 30.
10 shares Bullion, G. H., at 64½ per share—b 30.
6 shares Mt. View, at $9 per share.
5 shares Harmon at $23

F. B. OF BROKERS.

6 shares Crockett at $19 per share.
10 shares Lady Bryan at $63½ per share.
5 shares Mountain View at $10 per share.
30 shares Mount Davidson at $2 87½ per share.
5 shares Lady Bryan at $59 per share—s 30.
10 shares Buckeye at $13 per share.
10 shares Josephine, Coso at $1 22½ per share.
10 shares Standard at $35 per share.
10 shares Lady Bryan at $61½ per share.
20 shares Lady Bryan at $64 per share—b 30.
20 shares Lady Bryan at 65 per share—b 30, n d.
10 shares Lady Bryan at 64½ per share—b 30, n d.
10 shares Lady Bryan at 61½ per share.
10 shares Burgess, at $14 per share.
60 shares Burgess at 15 per share.
10 shares Burnside at $47½ per share.
10 shares Lady Bryan at $64 per share—b 30, n d.
10 shares Lady Bryan at 61 per share.
20 shares Mt. Hope at $12 per share.
10 shares North Ophir at $8 per share.

Sales by the S. F. Stock and Exchange Board,	$297,635 00
Sales by the S. F. Board of Brokers,	9,317 75
Total sales of the day, by both Boards,	306,953 75

MONDAY, FEBRUARY 1, 1864.

S. F. S. AND E. BOARD.

20 shares State Telegraph at $25½ per share.
5 shares Iowa at $45 per share.
10 shares Pride of the West at $95 per share.
5 shares Utah at $21 per share.
5 shares Utah at $20 per share.
60 shares Lady Bryan at $63 per share.
70 shares Lady Bryan at 64 per share.
60 shares Lady Bryan at 65 per share.
5 shares Lady Bryan at 66 per share—Feb 5.
40 shares Lady Bryan at 66 per share—r w.
20 shares El Dorado at $32½ per share.
5 shares Desert at $28 per share.

10 shares Desert at 24 per share.
10 shares Baltic at $165 per share—b 30.
10 shares Burnside at $19 per share—b 30.
10 shares Burnside at $17 per share.
5 shares Uncle Sam at $550 per share—r w.
8 shares Uncle Sam at 600 per share—b 30.
5 shares North American at $86 per share.
60 shares North American at 90 per share—b 30.
15 shares Sierra Nevada at $77½ per share.
20 shares Real del Monte at $160 per share—r w.
5 shares Real del Monte at 160 per share—b 3.
40 shares Real del Monte at 165 per share—b 30.
20 shares Real del Monte at 160 per share—b 10.
20 shares Real del Monte at 165 per share—b 30.
30 shares Real del Monte at 157½ per share.
57 shares Real del Monte at 167 per share.
20 shares Real del Monte at 165 per share—b 30.
30 shares Mt. Hope at $10 per share—b 30.
20 shares Mt. Hope at 11 per share—b 30.
20 shares Mt. Hope at 10 per share.
10 shares Nevada, J. G., at $120 per share—b 30.
15 shares Nevada, J. G., at 110 per share.
5 shares Bullion, G. H., at $65 per share—b 30.
20 shares Bullion, G. H., at 61 per share.
5 shares Burning Moscow at $101 per share.
15 shares Gobien Swan at $35 per share—b 10.
10 shares Melones at $60 per share.
25 shares Campton, E., at $11 per share.
5 shares Standard, R. E., at $37½ per share.
20 shares Chollar at $400 per foot—b 60.
20 shares Chollar 400 per foot—b 90.
40 shares Chollar at 400 per foot—b 60.
60 shares Chollar at 350 per foot.
20 shares Chollar at 400 per foot—b 30.
4 shares Gould & Curry at $4940 per foot.

AFTERNOON SESSION.

5 shares North Potosi at $72½ per share.
20 shares North Potosi at 75 per share.
20 shares North Potosi at 65 per share—s 30.
10 shares North Potosi at 72½ per share—b 30.
20 shares North Potosi at 70 per share—b 30.
15 shares North Potosi at 68 per share—b 30.
5 shares North Potosi at 65 per share.
10 shares North Potosi at 66 per share.
20 shares North Potosi at 67½ per share—b 30.
16 shares North Potosi at 67 per share.
30 shares North Potosi at 66 per share.
10 shares North Potosi at 65 per share—s 30.
30 shares North Potosi at 68 per share.
10 shares North Potosi at 60 per share—s 30.
30 shares North Potosi at 68 per share.
30 shares North Potosi at 70 per share.
20 shares Adriatic at $10 per share.
10 shares Lady Bryan at $68 per share—b 7.
10 shares Lady Bryan at 70 per share—b 10.
15 shares Lady Bryan at 68 per share.
100 shares Lady Bryan at 70 per share—b 30.
40 shares Lady Bryan at 67½ per share.
30 shares Lady Bryan at 67 per share.
10 shares Lady Bryan at 66 per share.
35 shares Lady Bryan at 70 per share—b 30.
10 shares Lady Bryan at 66½ per share.
10 shares Lady Bryan at 65½ per share.
20 shares Lady Bryan at 65 per share.
10 shares Melones at 65 per share—b 30.
10 shares Melones at 61 per share.
8 shares Burning Moscow at $101 per share
10 shares Burning Moscow at 100 per share—b 30.
30 shares Nevada, J. G., at $105 per share.
10 shares Nevada, J. G., at 115 per share—b 30.
30 shares Baltic at $165 per share—b 30.
20 shares Sierra Nevada at $80 per share.
2 shares Hale & Norcross at $830 per foot.
48 shares Ophir at $1550 per foot—b 30.

S. F. B. OF BROKERS.

MORNING SESSION—OPEN BOARD.

5 shares Harmon at $24½ per share.
5 shares Harmon at 25 per share.
10 shares Harmon at 24½ per share.
17 shares Harmon at 24 per share.
20 shares Harmon, county, at 28 per share.
25 shares Crystal at $3¾ per share.
10 shares Baltic at $170 per share—b 30.
5 shares Lady Bryan at $63½ per share—b 30.
45 shares Lady Bryan at 62½ per share.
10 shares Baltimore American at $12 per share.
10 shares Baltimore American at 44 per share—b 30.
10 shares Real del Monte at $170 per share—b 30.
20 shares North Ophir at $7½ per share.
20 shares North Ophir at 8 per share—b 30.
13 shares Mt. Hope at $10 per share.
20 shares Lord Byron, E., at $11 per share.
20 shares Campton, E., at $9 per share.
10 shares Campton, E., 10 per share.
10 shares Campton E. at 11.
10 shares Campton E. at 11½.
10 shares Victory, O. R., (unassessable,) at $7½ per share.
10 shares Shawmut at $22½ per share.
10 shares Shawmut at $30 per share.
10 shares Burning Moscow at $100 per share.

ONE O'CLOCK SESSION.

20 shares Baltimore American at $41 per share
5 shares North Ophir at $7 per share.
10 shares North Ophir at 7¼ per share—b 30.
10 shares North Ophir at 8 per share—b 30.
10 shares Broderick at $10 per share.
10 shares Broderick at 10½ per share.
10 shares La Madre, Mexico, at $5½ per share.
20 shares La Madre, Mexico, at 6 per share.
10 shares Bullion at $60 per share.
7 shares Mt. Hope at $10 per share.

P. B. OF BROKERS.

20 shares London, Siskiyou at $6 per share.
20 shares Mt. Hope at $10 per share.
11 shares Mt. Hope at $11 per share—b 30.
20 shares Buckeye at $13 per share.
10 shares North Potosi at $50 per share.
20 shares Charles Cany at $8 per share.
50 shares Desert at $24 per share.
10 shares Lady Bryan at $66 per share—b 30
10 shares Lady Bryan at 67½ per share—b 30.
15 shares South Burnside at $3½ per share.
5 shares Lady Bryan at 65 per share.
20 shares Lady Bryan at 70 per share—b 30, n d.
10 shares Lady Bryan at 63 per share—s 25.
10 shares Burnside at $18 per share.
5 shares Burning Moscow at $101—b 30, n d.
5 shares Standard R. R., $35 per share.
1 foot Gould & Curry at $4950 per share—b 15.
Dividend on 80 feet Harmon, $1.

Sales by the S. F. Stock and Exchange Board,.....$270,574 00
Sales by the S. F. Board of Brokers,..... 11,282 25
Sales by the P. Board of Brokers,..... 12,258 00

Total sales of the day, by all Boards,..... 294,114 25

TUESDAY, FEBRUARY 2.

S. F. S. AND E. BOARD.

5 shares North Potosi at $55 per share.
5 shares North Potosi at 68 per share.
5 shares North Potosi at 59 per share.
40 shares North Potosi at 70 per share.
18 shares North Potosi at 71 per share.
10 shares North Potosi at 72½ per share—b 30.
20 shares North Potosi at 65 per share—s 30.
10 shares North Potosi at 72¼ per share—r w.
110 shares North Potosi at 75 per share—b 30.
60 shares North Potosi at 70 per share.
20 shares North Potosi at 71 per share.
10 shares North Potosi at 72 per share—r w.
20 shares North Potosi at 75 per share—b 30.
84 shares El Dorado at $62½ per share.
10 shares El Dorado at 56 per share—b 30.
6 shares Adriatic at $10 per share.
55 shares Adriatic at 9½ per share.
20 shares Imperial at $195 per share—b 30.
10 shares Silver Hill at $15½ per share.
10 shares Crockett at $10 per share.
37 shares Mt. Hope at $9½ per share.
10 shares Nevada, Justice Ground at $120 per share—b 30.
10 shares Nevada, Justice Ground at 110 per share.
20 shares North American $90 per share—b 30.
10 shares North American at 95 per share.
28 shares Desert at $25 per share—b 30.
30 shares Lady Bryan at $65 per share.
10 shares Lady Bryan at 68 per share—b 30.
100 shares Lady Bryan at 64½ per share.
50 shares Lady Bryan at 64 per share.
2 shares Lady Bryan at 65 per share.
20 shares Lady Bryan at 63½ per share.
10 shares Lady Bryan at 64 per share.
15 shares Lady Bryan at 64½ per share.
10 shares Lady Bryan at 65 per share.
257 shares Lady Bryan at 64½ per share.
10 shares Lady Bryan at 65 per share.
25 shares Real del Monte at $161 per share.
5 shares Real del Monte at 150 per share.
20 shares Real del Monte at 157½ per share—b 30.
5 shares Real del Monte at 152½ per share—b 30.
5 shares Real del Monte at 147½ per share.
9 shares Baltic at 156 per share.
10 shares Baltic at 157½ per share.
10 shares North American at $90 per share—b 30.
10 shares Standard, R. E., at $35 per share.
1 shares Yellow Jacket at $850 per foot.
10 shares Nevada, Justice Ground, at $112½ per share.
20 shares Bullion, G. H., at $80 per share—b 5.
5 shares Bullion, G. H., at 62 per share.
1 share Uncle Sam at $550 per share.
5 shares Burning Moscow at $90 per share.
10 shares Melones at $55 per share—b 30.
5 shares Knickerbocker at $20 per share.
15 shares Greenville, E., at $21 per share.
27½ shares Lafayette at $12 per share.
5 shares Gold Hill Quartz Mill at $280 per share.
96 shares Chollar at $400 per foot—b 30.
12 shares Chollar at 375 per foot.
4 shares Chollar at 390 per foot.

AFTERNOON SESSION.

15 shares Mount Hope at $10 per share—b 30.
10 shares Mount Hope at 9 per share.
35 shares Lady Bryan at $65 per share.
10 shares Lady Bryan at 66 per share—b 10.
10 shares Lady Bryan at 68 per share—b 30.
85 shares Lady Bryan at 64½ per share.
20 shares Desert at $23 per share.
20 shares Desert at 25 per share—b 30.
50 shares Desert at 25 per share—b 15.
10 shares Burning Moscow at $90 per share.
38 shares Burning Moscow at 92½ per share—b 30
20 shares Burning Moscow at 89 per share.
15 shares Real del Monte at 155 per share.
10 shares Real del Monte at 153 per share.
10 shares Real del Monte at 152½ per share.
20 shares Baltic at $155 per share.
20 shares North Potosi at $71 per share.
50 shares North Potosi at 74½ per share.
10 shares North Potosi at 74 per share—b 30.
15 shares dosephine, Coso, at $1 per share.
10 shares Baltimore American at 41 per share.
10 shares Guadalupe at $15 per share.
2 shares Uncle Sam at $600 per share—b 30.
30 shares Utah at 22½ per share.
15 shares North American at $86 per share.
10 shares North American at 89 per share—b 30.
120 shares Ophir at $1400 per foot.

S. F. B. OF BROKERS.

MORNING SESSION—OPEN BOARD.

10 shares Harmon at $20 per share.
10 shares Harmon at 16¾ per share—s 30.
10 shares Harmon at 16 per share—s 30.
10 shares Shawmut at $29 per share.
10 shares Shawmut at 29½ per share.
10 shares Shawmut at 30 per share.
25 shares Ericsson, R. R., at $40 per share.
18 shares North Ophir at $7½ per share.
69 shares Lady Bryan at $69 per share—b 30.
20 shares North Potosi at $70 per share—b 30.
10 shares Bullion at H., at 58 per share.
10 shares Bullion, G. H., at 59½ per share.
3 shares Wide West at $35 per share.

ONE O'CLOCK SESSION.

5 shares Lady Bryan at 64¼ per share.
15 shares Lady Bryan at 64 per share.
15 shares Lady Bryan at 64½ per share.
5 shares Real del Monte at $150 per share.
10 shares Real del Monte at 152½ per share—b 30.
5 shares Broderick, H., at $10½ per share.
5 shares Broderick, H., at 11 per share.
50 shares Campton, E., at $16 per share—b 60.
20 shares Crockett Consolidated at $21 per share.
7 shares Mount Hope at $10 per share.

P. B. OF BROKERS.

10 shares Baltimore American at $43 per share.
10 shares Baltimore American at 43¾ per share.
10 shares Baltimore American at 44 per share—b 6.
10 shares Mount Hope at $11 per share—a p.
10 shares Lady Bryan at $65 per share.
5 shares Lady Bryan at 67½ per share—b 25.
5 shares Lady Bryan at 65 per share.
5 shares Lady Bryan at 69 per share—b 30.
5 shares Real del Monte at $155 per share—b 30.
100 shares Willow Springs at $1½ per share.
10 shares Mount Hope at $10 per share—a p.
10 shares Lady Bryan at 64½ per share.
10 shares Lady Bryan at 67½ per share—b 30.
5 shares Lady Bryan at 65 per share.
10 shares Lady Bryan at 64 per share.
5 shares Lady Bryan at 67 50 per share—b 30.

Sales by the S. F. Stock and Exchange Board,.....$354,217 50
Sales by the S. F. Board of Brokers,..... 11,947 50
Sales by the P. Board of Brokers,..... 7,255 00

Total sales of the day, of all Boards,..... 373,420 00

WEDNESDAY, FEBRUARY 3.

S. F. S. AND E. BOARD.

5 shares Burning Moscow at $95 per share—b 30.
10 shares Burning Moscow at 92 per share.
15 shares Burning Moscow at 91 per share.
30 shares Adriatic at $6½ per share.
10 shares Pride of the West at $90 per share.
15 shares Pride of the West at 95 per share—b 30.
84 shares Real del Monte at $148 per share—r w.
5 shares Real del Monte at 147½ per share—r w.
15 shares Real del Monte at 150 per share—b 30
45 shares Real del Monte at 145 per share—b 30.
10 shares Real del Monte at 155 per share—b 60.
30 shares Real del Monte at 141 per share.
7 shares Real del Monte at 140 per share.
10 shares Real del Monte at 137½ per share—r w.
10 shares Real del Monte at 135 per share—r w.
10 shares Real del Monte at 136 per share.
77 shares Real del Monte at 135 per share.
20 shares Real del Monte at 137½ per share—b 30.
10 shares Real del Monte at 136 per share
39 shares Real del Monte at 135 per share.
5 shares Real del Monte at 135 per share—b 30.
55 shares Real del Monte at 130 per share—b 30.
10 shares Real del Monte at 127½ per share—b 30.
60 shares Real del Monte at 125 per share—b 30.
12 shares Real del Monte at 120 per share.
10 shares Standard, R. R., at $35 per share.
10 shares Standard R. R., at 35 per share.
88 shares Silver Hill at $14 per share.
25 shares Silver Hill at 15 per share—b 30.
50 shares Silver Hill at 13 per share.
10 shares Baltimore American at $40 per share.
10 shares Baltimore American at 39 per share
40 shares Baltic at $150 per share.
10 shares Baltic at $155 per share—b 30.
10 shares Nevada, J. G., at $120 per share.
20 shares Nevada, J. G., at 125 per share—b 30.
20 shares Nevada, J. G., at 127½ per share—b 30.
20 shares Nevada, J. G., at 115 per share—s 30.
455 shares Nevada, J. G., at 120 per share—s 30.
5 shares Nevada, J. G., at 125 per share—b 30.
1 share Imperial at $185 per share.
50 shares Lady Bryan at $64½ per share.
70 shares Lady Bryan at 67½ per share—b 30.
20 shares North Potosi at $70 per share.
50 shares Melones at $50 per share.
20 shares North American at $91 per share—b 30.
20 shares Chollar at $385 per foot.
40 shares Chollar at 390 per foot.
12 shares Ophir, $1500 per foot.

AFTERNOON SESSION.

10 shares Burning Moscow at $93 per share.
10 shares Burning Moscow at 94 per share.
5 shares Burning Moscow at 97½ per share—b 30.
100 shares Mt. Davidson at $3 per share.
40 shares Lady Bryan at $64½ per share.
15 shares Lady Bryan at 67 per share—b 30.
30 shares Lady Bryan at 64 per share.
10 shares Lady Bryan at 66 per share—b 30.
10 shares Lady Bryan at 66½ per share—b 30.
335 shares Real del Monte at $152 per share.
10 shares Real del Monte at 125 per share—b 30.
10 shares Real del Monte at 130 per share.
30 shares Real del Monte at 110 per share.
5 shares Real del Monte at 142½ per share—b 30.
60 shares North American at $92½ per share—b 30.
10 shares North American at 93 per share—b 30.
20 shares North American at 89 per share.
6 shares Yellow Jacket at $875 per share.
7 shares Yellow Jacket at 900 per share.
5 shares Seneca at $10 per share.
5 shares North Potosi at $66½ per share.
20 shares Burnside at $18 per share.
10 shares Utah at $22 per share—b 30.
20 shares Chollar at $375 per foot.
40 shares Chollar at 290 per foot—b 30.
20 shares Chollar at 380 per foot—r w.

S. F. B. OF BROKERS.

MORNING SESSION—OPEN BOARD.

20 shares Shawmut at $30 per share.
5 shares El Dorado at $60 per share—b 30.
46 shares Baltimore American at $44 per share—b 30.
10 shares Baltimore American at 41 per share.
5 shares Real del Monte at $148 per share.
20 shares Crockett Consolidated at $20 per share.
20 shares Silver Hill at $14 per share.
20 shares North Ophir at $7½ per share.
10 shares Campton, E., at $20 per share.

P. B. OF BROKERS.

10 shares Lafayette, G. H., at $14 per share.
20 shares Lafayette, G. H., at $13 per share.
10 shares Lafayette, G. H., at $13½ per share.
10 shares Bureka at $6 per share.
15 shares South Burnside at $3 per share.
10 shares Lady Bryan at 66¾ per share—b 10.
5 shares Lady Bryan at 65 per share.
5 shares Lady Bryan at 65½ per share.
10 shares Lady Bryan at 68 per share—b 30
10 shares Lady Bryan at 65 50 per share.
10 shares Lady Bryan at 68 per share—b 30.
10 shares Lady Bryan at 68 per share—b 30, n d.
10 shares Lady Bryan at 68 per share—b 30.
10 shares Lady Bryan at 69 per share—b 30, n d.
10 shares Lady Bryan at 65 per share.
15 shares Lady Bryan at 68 per foot—b 30.
10 shares Lady Bryan at 65 per share
4 shares Burnside at $17 50 per share.
10 shares Burnside at 17 75 per share.
10 shares Burnside at 18 per share.
10 shares Burnside at 17 per share—s 30.
20 shares Burnside at 18 per share.
22 shares American Pioneer at $5 50 per share.
10 shares North Ophir at $7 per share.
5 shares Real del Monte at $135 per share.
12 shares Buckeye at $13 per share.
10 shares Cuba, Humboldt, at $4 per share.
5 shares Real del Monte at $140 per share—b 30.
10 shares Real del Monte at 140 per share—b 30.

Sales by the S. F. Stock and Exchange Board,..... $273,582 00
Sales by the S. F. Board of Brokers,..... 4,840 00
Sales by the P. Board of Brokers,..... 12,487 00

Total sales of the day by all Boards,..... 290,909 00

THURSDAY, FEBRUARY 4.

S. F. S. AND E. BOARD.

10 shares Burning Moscow at $100 per share—b 30.
35 shares Burning Moscow at 105 per share—b 30.
10 shares Burning Moscow at 97 50 per share.
10 shares Burning Moscow at 98 per share.
29 shares Burning Moscow at 100 per share.
2 shares Burning Moscow at 105 per share.
10 shares North Potosi at $65 per share.
10 shares North Potosi at 70 per share—b 30.
5 shares North Potosi at 68 per share.
5 shares North Potosi at 72 50 per share—b 30.
20 shares Burnside at $17 per share.
20 shares Burnside at 16 per share.
20 shares Burnside at 15½ per share.
30 shares Mt. Davidson tunnel at $3 50 per share.
10 shares Wide West at $32 50 per share.
5 shares Wide West at 30 30 per share.
20 shares Real del Monte at $140 per share.
25 shares Real del Monte at 137 50 per share.
5 shares Real del Monte at 137 per share—b 30.
10 shares Real del Monte at 142 50 per share—b 30.
5 shares North American at $96 per share—b 30.
5 shares North American 100 per share—b 30.
5 shares North American at 97 50 per share.
40 shares North American at 101 per share—b 30.
10 shares North American at 97 50 per share.
10 shares North American at 98 per share.
30 shares North American at 100 per share—b 5.
5 shares North American at 101 per share—b 30.
10 shares North American at 98 per share.
30 shares North American at 100 per share—r w.
1 share Savage at $3350 per share.
10 shares Uncle Sam at $600 per share.
5 shares Baltimore American at $38 per share.
15 shares Baltimore American at 36 per share.
10 shares Baltimore American at 41 per share—b 30.
10 shares Baltimore American at 42 per share—b 30.
20 shares Rock Island at $16 per share.
10 shares Rock Island at 16 50 per share.
7 shares Caledonia Tunnel at $25 per share.
30 shares Lady Bryan at $66 per share—b 30.
30 shares Lady Bryan at 64 per share.
20 shares Tri-Union at $5 per share.
10 shares Melones at $45 per share.
10 shares Ben Franklin at $8 per share.
75 shares Mount Hope at $10 per share—b 30.
10 shares Mount Hope at 9 50 per share.
7 shares Baltic at $160 per share.
15 shares Campton, E., at $25 per share.
4 shares Bullion, G. H., at $61 per share.
20 shares Lafayette at $15 per share.
20 shares Lafayette at 15 50 per share.
10 shares Standard, R. R., at $36 per share.
12 shares Chollar at $390 per share—b 10.
24 shares Ophir at $1510 per share—b 30.

AFTERNOON SESSION.

10 shares Wide West at $29 per share.
25 shares Wide West at 35 per share.
10 shares Baltimore American at 38 per share.
10 shares Baltimore American at 41 per share.
20 shares Buckeye at $16 per share—b 30.
10 shares North Potosi at $68 per share.
10 shares North Potosi at 70 per share.
10 shares Lady Bryan at $66 per share—b 30.
5 shares Lady Bryan at 63 50 per share.
153 shares Lady Bryan at 65 per share—b 30.
10 shares North American at $102 50 per share.
10 shares North American at 105 per share—r w.
15 shares North American at 106 per share—b 30.
10 shares North American at 103 per share—r w.
20 shares North American at 105 per share—b 30.
20 shares North American at 103 per share.
35 shares North American at 106 per share—b 30.
30 shares Real del Monte at $140 per share—b 30.
20 shares Real del Monte at 135 per share.
10 shares Real del Monte 136¾ per share.
10 shares Real del Monte at 140 per share—b 30.
10 shares Burning Moscow at $100 per share.
5 shares El Dorado at $63 per share.
5 shares Lafayette, G. H., at $16 per share.
25 shares Seneca at $15 50 per share—b 30.
20 shares Desert at $23 per share,

S. F. B. OF BROKERS.
MORNING SESSION—OPEN BOARD.

60 shares Blue Ledge at $8 per share—s 30.
10 shares Harmon at $16 per share—s 30.
20 shares Lady Bryan at $65 per share.
20 shares Lady Bryan at 67 per share—b 30.
10 shares Lady Bryan at 64.50 per share.
5 shares Lady Bryan at 64 per share.
5 shares Lady Bryan at 67.50 per share—b 30.
15 shares Baltimore American at $40 per share.
5 shares Real del Monte at $143 per share.
5 shares Real del Monte at $145 per share.
10 shares Idaho Consolidated, O. R., at $4.50 per share.
10 shares Idaho Consolidated, O. R., (unass.) at $3.50 per share.
2 shares El Dorado at $50 per share.
20 shares Victory, O. R., at $7.75 per share.
10 shares North Ophir at $7 per share.
5 shares Lady Bryan at $65 per share.
5 shares Real del Monte at $129 per share.
5 shares Real del Monte at $135 per share.

P. BOARD OF BROKERS.

5 shares Burnside at $17 per share.
15 shares Burnside at 17.50 per share.
10 shares Lady Bryan at 66 per share—b 30.
10 shares Lady Bryan at 66.50 per share—b 30.
5 shares Lady Bryan at 67 per share—b 30
5 shares Real del Monte at $137.00 per share.
10 shares Christiana at $10 per share.
5 shares Real Del Monte, $138½ per share.
5 shares Lady Bryan at $64 per share.
10 shares Burnside, $16¾ per share.
10 shares Burnside 16 per share.
10 Shares Lady Bryan $61½ per share—s 30.
5 shares Lady Bryan 64 per share.
10 shares Lady Bryan at 65 per share—b 30.
10 shares Lady Bryan at 64 per share.
15 shares Lady Bryan at 65 per share—b 30
5 shares Lady Bryan at 64 per share.
3 shares Greenville, Esmeralda at $21 per share.
5 shares North American at $95 per share.
5 shares North American at 96 per share.
100 shares Laurel Hill at $43½ per share—b 30, n. d.
10 shares Lady Bryan at 64½ per share—s 30.
10 shares Lady Bryan at 65½ per share—b 30, n. d.
20 shares Mount Hope at 59½ per share.
30 shares Mount Hope at 59⅝ per share—b 30.
1 foot Savage at $3,325 per share—b 10.

Sales by the S. F. Stock and Exchange Board,.....$ 93,472 50
Sales by the S. F. Board of Brokers,..... 8,512 00
Sales by the P. Board of Brokers 21,413 00

Total sales of the day, by all Boards,..... 123,397 50

FRIDAY, FEBRUARY 5.

S. F. S. AND E. BOARD.

5 shares Burning Moscow at $103½ per share.
2 shares Burning Moscow at 105 per share.
10 shares Burning Moscow at 110 per share—b 30.
8 shares Burning Moscow at 108 per share.
10 shares Burning Moscow at 98 per share—s 60.
5 shares North Potosi at 271 per share—b 10.
15 shares North Potosi at 70 per share.
10 shares North Potosi at 60 per share—s 90.
5 shares North Potosi at 72½ per share—b 30.
5 shares El Dorado at $56 per share—b 30.
20 shares Burnside at $15¾ per share.
10 shares Burnside at 15 per share.
25 shares Real del Monte at $140 per share—b 30.
13 shares Real del Monte at 130 per share.
15 shares Real del Monte at 138 per share.
5 shares Real del Monte at 132½ per share—b 30.
2 shares Real del Monte at 127½ per share.
40 shares Real del Monte at 135 per share—b 30.
10 shares Real del Monte at 127½ per share—s 60.
13 shares North American at $106 per share.
30 shares North American at 105 per share.
65 shares North American at 110 per share—b 30.
35 shares North American at 107 per share.
10 shares North American at 112½ per share—b 30.
10 shares North American at 112 per share.
5 shares Wide West at $32 per share.
4 shares Wide West at 30 per share.
5 shares Lady Bryan at $63½ per share.
30 shares Lady Bryan at 62 per share.
45 shares Lady Bryan at 62½ per share.
20 shares Lafayette, G. H., at $17 per share.
20 shares Baltimore American at $43 per share—b 30.
90 shares Baltimore American at 40 per share—s 30.
25 shares Baltimore American at 42 per share.
13 shares Seneca at $15 per share—b 30.
22 shares Buckeye at $13 per share.
10 shares Buckeye at 14 per share.
40 shares Independent at $10 per share—b 30.
20 shares Sierra Nevada at $82 per share.
15 shares Standard, R. R., at $37 per share—r w.
5 shares El Dorado at $51 per share.
11 shares Rock Island at $15 per share.
10 shares Melones at $50 per share—b 30.
36 shares Ophir at $1,250 per foot—b 30.
60 shares Dancy at $15 per foot.
4 shares Chollar at $510 per foot.

AFTERNOON SESSION.

20 shares North American at $115 per share.
30 shares North American at 117½ per share.
5 shares North Potosi at $68 per share.
15 shares North Potosi at 67⅜ per share.
6 shares North Potosi at 67 per share.
15 shares North Potosi at 65 per share.
10 shares Real del Monte at $135 per share.
18 shares Real del Monte at 125 per share.
5 shares Real del Monte at 132½ per share.
84 shares Real del Monte at 131 per share.
18 shares Real del Monte at 126 per share.
10 shares Mount Hope at $9 per share.
10 shares Lafayette, G. H., at $18 per share.
22½ shares Lafayette, G. H., at 19 per share.
25 shares Wide West at $31 per share.
25 shares Lady Bryan at $62 per share.
10 shares Seneca at $18 per share.
30 shares Mt. Davidson at $35½ per share.
5 shares Baltimore American at $42 per share.
5 shares Pride of the West at $80 per share.
5 shares Pride of the West at 85 per share.
10 shares Burning Moscow at $106 per share.
3 shares Burning Moscow at 102 per share.

S. F. B. OF BROKERS.

10 shares Buckeye at $15 per share.
10 shares Buckeye at 13¾ per share.
10 shares Buckeye at 13½ per share.
50 shares Blue Ledge at $8—s 30.
50 shares Blue Ledge at 8¾—s 30.
9 shares Lady Adams at $2.
5 shares Coso at $56.
10 shares Lady Bryan at $62.

P. B. OF BROKERR,

5 shares North Potosi at $65—s 30,
25 shares Norman at $21½
5 shares Adriatic at $8.
5 shares Lady Bryan at $64—s 30.
10 shares Harmon at $18¾.
20 shares Lafayette, G. H., at $17.
25 shares Great Western at $2½.
10 shares Kohler Bros. at $10.
10 shares Real del Monte at $130 per share—s 30,
50 shares Mt. Davidson at $1 per share.
5 shares Baltimore American at $41 per share.
5 shares Caldonia Tunnel at $27.50 per share.
5 shares Caldonia Tunnel at 27 per share.
5 shares Mount Davidson at 3.50 per share.
10 shares Burnside at $15 50 per share.
20 shares Burnside at 15.25 per share.
10 feet Cuba, Humboldt, at $4 per share.

Sales by the S. F. Stock and Exchange Board,.. .....$126,583 60
Sales by the S. F. B. of Brokers,..... 1,983 75
Sales by the P. Board of Brokers,..... 4,535 00

Total sales of the day, by all Boards,..... 133,102 75

Total sales of the week, by all Boards,.....$1,521,896 75

Gold in New York.

Saturday, January 30	157
Monday February 1	157¼
Wednesday " 3	158

Legal Tender Notes.

San Francisco, Friday February 5 .....66¾ per cent.

San Francisco Stock and Exchange Board.—Prices Bid and Asked.

				Saturday.		Monday.		Tuesday.		Wednesday.		Thursday.		Friday.	
WASHOE STOCKS.	FEET.	SHARES.	VAL.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.
Ophir	1,400	16,800	300	1,475	1,495	1,490	1,500	—	1,490	—	1,500	—	1,490	1,490	1,500
Gould & Curry	1,200	4,800	500	4,900	4,950	4,930	49,50	—	5,200	4,930	4,950	4,920	4,950	—	4,825
Savage	800	800	2,000	3,250	3,325	3,300	3,400	—	3,400	3,250	3,300	—	—	3,150	3,250
Chollar	1,100	5,500	800	350	—	350	375	390	—	350	380	385	395	360	375
Potosi	1,400	2,800	500	1,175	—	1,100	1,200	1,200	1,350	1,200	1,300	1,200	—	—	1,500
Hale & Norcross	900	800	500	700	825	700	—	—	875	—	900	—	900	—	900
Sierra Nevada	3,000	3,000	500	75	80	73½	80	73½	80½	75	82½	70	90	—	—
Dancy	2,000	800	60	70	—	70	—	73	76	70	80	73	76	75	77
Burning Moscow	4,100	4,100	500	100	102	101	102½	90	94	90	91	100	102	101½	103
North Potosi	2,000	2,000	250	57½	60	50	55	70	72	68	70	67	70	65	71
Charles Cany	1,800	1,800	30	10	12	8	90	—	10	8	—	6	9	6	9
Iowa	1,200	1,200	1,000	—	—	45	45	—	—	—	—	—	—	40	—
El Dorado	1,800	1,800	500	50	60	52¾	55	52½	—	45	60	52	55	45	51
Norton	1,600	1,600	50	8¼	12	—	10	—	10	—	10	6	8¼	7	8
Burnside	2,800	2,800	500	15	25	17	18	13	19	17½	19	15	15¾	—	17
Adriatic	—	—	—	—	11	—	12	9	10	10	11	—	10	5	11
Pride of the West	1,400	1,400	100	95	100	95	97½	—	98	—	—	75	95	—	100
Imperial	184	4,000	500	170	180	182	210	182½	185	160	185	150	185	—	190
Crown Point	600	1,200	100	—	1,200	—	950	—	—	—	900	—	—	—	—
Manhattan	—	—	—	—	—	—	8	—	—	—	4	—	—	—	—
Seneca	—	—	—	10	20	10	15	9	—	10	15	12	15	14	18
Mt. Davidson tun'l.	1,000	1,000	200	2¾	3½	2¾	3	2¼	3	2½	4	3¼	3½	2	3¼
Hudson	—	—	—	—	—	—	6	—	—	—	4	1	6	—	—
Balazet & O. Era	4,000	4,000	300	37	37½	35	40	30	40	—	37½	32½	35	30	36
Cedar Hill tunnel	—	1,000	100	—	—	—	1½	—	2	—	1½	—	1½	—	—
Gold Hill Qu'tz Mill	—	—	—	265	290	—	300	280	290	—	—	—	—	—	—
ESMERALDA.															
Wide West	1,400	1,400	2,600	38	—	—	42½	30	40	30	—	25	29	31	32
Antelope	1,200	1,200	500	250	265	250	300	250	275	250	257½	245	257½	—	11
Esmeralda	1,000	1,000	1,000	—	—	—	12	—	—	—	—	—	20	—	—
Real del Monte	4,400	4,400	400	157½	160	156	157½	147½	150	120	—	133½	140	127½	130
Utah	1,600	1,600	200	20	22	21	21	20	22½	20	—	21	25	20	—
Silver Hill	3,000	3,000	500	13	14½	13	—	13½	15	13	14	13	14	—	13
Nevada	600	1,200	250	3	20	—	20	2	12	—	8	—	—	—	—
Falls of Clyde	6,000	6,000	100	—	—	—	—	—	2	—	2	—	2	—	2
Bamboo	600	600	500	—	75	—	80	—	—	—	—	—	100	—	120
Crockett	—	—	—	17	20	18	20	17	19	18	20	10	20	7½	16
Federal Hope	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2
Jenny Lind coso.	—	—	—	—	—	—	—	—	—	—	—	—	3	—	5
Josephine	9,600	4,800	2,500	—	2½	1	—	—	1½	—	2	—	1	—	1
Willow Springs	2,700	2,700	100	—	—	—	—	—	—	—	—	—	3	—	3
Coso	2,600	3,600	600	—	8	—	8	—	—	—	—	—	8	—	8
COPPER.															
Napoleon	—	—	—	50	70	41	55	47½	55	—	60	—	—	—	60
Josephine	—	—	—	3½	8	—	—	—	8	—	—	—	—	3	8
CALIFORNIA.															
Laurel Hill	—	—	—	—	5	—	—	—	—	—	—	—	—	—	—
Rhodes Diggings	—	—	—	5	—	—	—	5	—	—	—	5	—	—	—
Fellowes	2,500	2,500	100	—	—	—	—	—	—	—	—	—	55	—	—
Maxwell	—	—	—	—	—	—	—	90	—	—	—	20	75	25	100
Rock River	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Eureka	—	—	—	—	—	—	40	—	40	—	—	—	40	—	40
HUMBOLDT STOCKS.															
De Soto	1,980	1,980	100	—	24	—	30	—	24	—	25	—	25	12	25
Great Basin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Two Good Canvassing Agents can find profitable employment by calling at this office. None but active and competent men need apply.

To Druggists and all Prescribing for Neuralgic and Nervous Cases.—Your attention is called particularly to the efficacy of WATTS' NERVOUS ANTIDOTE for the above. Feelings of humanity, independent of pecuniary considerations, would prompt you to recommend it in all cases of Neuralgic Pains, Face Ache, from defective teeth, and the General Wasting Away and Debility of the Nervous System, if you could have the assurance that this was what it is purported to be—THE GREAT RELIABLE TRANQUILIZER AND RESTORER OF THE SYSTEM. It has been repeatedly prescribed in cases of excessive drinking, on the verge of Delirium Tremens, and even while laboring under its distressing influence, with astonishing results. It contains no preparation of Opium or Valerian, and is never accompanied with the unpleasant sensation always experienced after taking successive doses of them. It is also the best Soothing Syrup in use. Patients have taken Watts' Nervous Antidote many months in succession, and experienced no unpleasant effect whatever—while the same continued use of many other popular remedies has completely shattered the system.
For sale, Wholesale and Retail, by SAMUEL ADAMS, U. S. Drug Store, corner of Pine and Kearny Streets, San Francisco. 6v8-2m

Wide West Mining Company.

NOTICE.

The Office of the Wide West Mining Company
Is Removed to No. 113 California street, San Francisco,
6v8-4t JOHN F. POPE, Secretary.

PATENT STEAM BOILER CLEANSER,
—OR—
Antidote for Scales and Incrustation
Formed by the Deposit of Water in Steam Boilers.

Used in all Boilers at the London Exhibition in 1862, By order of Her Majesty's Commission.

G. VENARD,
No. 627 Front Street, San Francisco,
SOLE AGENT FOR CALIFORNIA AND THE PACIFIC COAST.

This Compound has undergone the examination of the most competent Chemists in France and England, and has been pronounced all over Europe the BEST ARTICLE ever found for removing Scales in Steam Boilers, this great evil of industry.
The main qualities of this Compound are: that it removes the scales of any boiler in a few days, no matter how old, and it does not injure the metal in the least. The raising of steam is made easier. It saves fuel and work, and prevents all dangers of explosion.
The Compound has now been in use for three years, and the great success obtained in the Old World induced the undersigned to introduce it in this State, being confident of the patronage of this enlightened and industrious country. G. VENARD,
No. 627 Front street, San Francisco.
☞ Reference will be given to parties using the above, at the Agent's office. 6v8-1m

IMPORTANT TO MINERS.

MAGNIFYING GLASSES FOR EXAMINING QUARTZ.
MINING COMPASSES, WITH SIGHTS AND LEVELS.
BLOW-PIPES, GOLD SCALES.
POCKET COMPASSES, MAGNETS,
DRAWING INSTRUMENTS, in cases and separate pieces.
MARINE AND FIELD GLASSES.
EYE PROTECTORS. GALVANIC BATTERIES.
THERMOMETERS. BAROMETERS.

The Largest Assortment on the Pacific Coast for sale by
LAWRENCE & HOUSEWORTH, Opticians,
5v8 tf No. 637 Clay street, San Francisco.

POWDER! POWDER!

Prime Blasting Powder, on Consignment

And for sale in lots to suit purchasers, by
J. S. CURTIS,
6v8-tf No. 405 Front street, San Francisco.

Removal.

M. G. ELMORE,
MINING SECRETARY,
—REMOVED TO—
No. 645 Clay street, between Montgomery and Kearny, up stairs.
6v8-4t

The Pacific Monthly Magazine,

The only original magazine published on the Pacific coast.
EDITED BY LISLE LESTER,
Recently from the East, comes out in new type, new cover, and fresh in all its material and matter. This Magazine will be devoted to the Literature of the Pacific coast, and will equal any of the Eastern publications in variety, taste and class of its contributions.
The Editress is striving to make it a

HOUSEHOLD WORK.

A new story written by an Eastern lady of talent and renown, commences with the January number. All who wish to read "SHIMAH" must subscribe at once.
The PACIFIC MONTHLY now established on a permanent basis, it numbers among its contributors the best writers of this State, and offers to those who love a chaste, thoughtful and elegant style of literature, attractions superior to those of any other publication on this coast. Its aim will be to elevate the literary standard of this State, and give to the world a truthful picture of the life and literature of California.
The March number is to be illustrated with views around San Francisco.
The Editor's table is alone worth having.
The subscription rates are less than other works of a similar character. All orders promptly attended to.
Office room, No. 45 Government House, North West corner of Washington & Sansome Streets, San Francisco, Cal.
Terms: Per year, in advance $3 00; per year, if payment be delayed three months $4 00; Single copies 25cts; Clubs of five $12 00; Clubs of ten $20 00.

STAGE NOTICE.

NEVADA STAGE COMPANY.

ON AND AFTER SATURDAY, JANUARY 24, THE STAGES OF this line will run in connection with the Sacramento Valley Railroad from Auburn Station, each even date in the month, until further notice, to Allison's Ranch, Grass Valley, Nevada, Eureka, Steamboat Springs, Virginia City, and all points in Nevada Territory.
Office, corner of Front and K streets, Sacramento, opposite the What Cheer House.
N. B.—This line has been running stages for the last six years, and has never had an accident. Passengers can depend on their safety and comfort, as there are no persons in the employ of this line who are not stagemen. [6v8-1m] J. S. McCUE, Proprietor.

VALENTINE'S DAY!

MONDAY,.....February 15, 1864.

VALENTINES in solid Rosewood and Mahogany Cases, with Lady's Watch, and with Lady's Pin and Ear Drops, from Tucker's Jewelry establishment.
VALENTINES of every conceivable variety: Valentine Stationery, Valentine Cards, Valentine Mottoes.
FIFTEEN new and Original California Comics; local, and to the point.
NEW CALIFORNIA Valentine writer, containing 126 original, comic and sentimental, on all subjects.
VALENTINES on all subjects, written to order, at short notice.
VALENTINES—Persons caricatured—pencil sketch—in the best style, at short notice.
APPLETON'S VALENTINE EXPRESS, with six horses, will deliver Valentines every hour in the day, in every part of the city.
D. E. APPLETON & CO.,
508 Montgomery street, Opposite Tucker's and Telegraph Office.

"CHIPPINGS."

A new theater is now in progress of erection on Pine street. just below Montgomery, in this city. This theater is to be equal, in all its appointments, to any similiar first class institution in the Atlantic States.

Blackbirds' wings are now worn on the jaunty head gear of juvenile Misses at the East. They are placed folded in their natnral position. These wings are coal black, with a little patch of vivid vermillion on the shonlder. The effcct is said to be very pretty.

Europeau Advices show continued and increasing apprehensions of a general Continental War.

The Nevada Gas Works which were destroyed by the recent disastrous fire in that city are again in operation.

A correspondent of the Marysville *Appeal* pronounces the "tree cotton" a failure. It may he so with him. We should like to learn the experience of others in this experiment.

Notice has been given in the Nevada Territorial Legislature, of bills to consolidate the cities of Virginia and Gold Hill. Virginia wants to, but Gold Hill "smells a mince" in the shape of a large debt.

A man named Kirdan was killed, in a fight, by one Sulivan, at Hoskin's Ranch, Calaveras county, some few days since.

The floating ice in the Columhia river put a stop to uavigation.

Dodson, a "sport," was recently shot through the thighs, at Portlaud, in a quarrel with Lopens, another sport.

A novel expedient was resorted to a few days since by the owner of an out-door amphi theater near Marysville, to keep boys from climbing over. He daubed the outside freely with molasses—"treacle" won.

The Famous Fremont-Mariposa estate contains 44,387 acres, or ahout seventy squrare miles.

Strong efforts are being made in Southern Sierra to continue and complete the work on the Yuba Gap road.

About eleven hundred vessels entered the port of Victoria duriug the year 1863; one-half were British, the remainder forcign, and chiefly American.

Walter Savage Landor is perhaps the oldest English author, for he is now 90 years old. This veteran has in the press a volume of Heroic Idyls and Other Poems.

To show us the worth of time, God, who is most liberal in all other thiugs, is exceedingly frugal in the dispensing of that; for he never gives us two moments together.

Jeddo, the capital of Japan is the largest city in the world. It contains 1,000,000 dwellings, and 5,000,000 inhabitauts.

A steam gong has lately heen put on Colt's armory. The thing is six feet high and fifteen inches in diameter.

A Bill is perfecting in Congress for the creation of a new Territory out of portious of Idaho and Utah, to be called Montano.

It is said that there is no more than a month's supply of lumber on hand in San Francisco—some 10,000,000 feet.

A suit has been commenced in this city against the Josephine Mining Company, by S. E. Holcomb, for $21,000.

At the commencement of the new year there were no less than forty-eight vessels of war at the Brooklyn Navy Yard building, fitting out and preparing for sea.

It is said that there will soon be enough colored troops on the Mississippi to guard the whole river and garrisou the towns.

The word Chattanooga signifies, in the Indian tongue, fish-taking.

Mr. Seward's report for Congress of diplomatic correspondence since January last, will, it is said, comprise a printed volume of two thousand pages.

The scarcity of farm labor in Missouri is becoming a serious evil.

Miscellaneous Advertisements.

MINERS' FOUNDRY
—AND—
MACHINE WORKS,
First street, between Howard and Folsom streets,
SAN FRANCISCO.

EVERY DESCRIPTION OF IRON AND BRASS MACHINERY, the **Best** and **Most Economical**, manufactured in the State of California, will be furnished with dispatch at the Miners' Foundry and Machine Works, as:

Steam Engines and Boilers, Flour, Saw and Quartz mill machinery, Mining Pumps, Amalgamators, Retorts, Etc., Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections, designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities will be afforded ample facilities, free of cost.

All parties desiring accurate and highly finished drawings and Superior Machinery, at most reasonable rates are cordially invited to call before contracting elsewhere.

HOWLAND, ANGEL & KING.
San Francisco, February 23, 1863. tf.

PALMER, HANSCOM & CO.,
GOLDEN STATE IRON WORKS,
No. 19, First Street, San Francisco,
Furnish Castings and Machinery of all kinds,
Also Genuine White Iron Shoes and Dies.
PALMER, HANSCOM & CO.

To Quartz Miners.

KNOX'S IMPROVED AMALGAMATING PAN
WITH PALMER'S PATENT STEAM CHEST.

THE ABOVE COMBINATION SECURES THE MOST COMPLETE amalgamation of the precious metals of any process now known. By it steam is introduced in the most effective and economical manner, while it is peculiarly adapted to the catching of floating gold and silver, known to be otherwise lost. Made exclusively by
PALMER, HANSCOM & CO.,
GOLDEN STATE IRON WORKS,
Nos. 19 and 21 First Street, San Francisco.

The public are informed that Letters Patent have been granted the undersigned upon Steam Chest False Bottoms for the inside of Amalgamating Pans or Tubs, and are cautioned against making, buying, using or selling the same without his consent.
tf W. A. PALMER.

Sacramento Iron Works.

I STREET, BETWEEN FIRST AND SECOND STREETS,
SACRAMENTO.

GOSS & LOMBARD.....Proprietors.

MANUFACTURERS OF STEAM ENGINES, MACHINERY FOR Saw, Flour and Quartz Mills, Horse Powers, Windmills, Car Wheels, Suction and Force Pumps, Cast Iron Rifles and all kinds of House Castings, at reduced prices. Gas pipe of all sizes, and all kinds of Brass and Iron Steam Fittings, with Hemp and Rubber Packing, constantly on hand. Wrought Iron Work and all kinds of Brass Castings done to order.

We are the Sole Agents in this State for the celebrated Worthington Pump, an assortment of which we keep constantly on hand. We have just received from the East a fine assortment of Cast Iron Fence Patterns, suitable for yards, balconies, cemetery lots or graves. We shall continue to do our work in the best manner and at the LOWEST CASH PRICES, hoping thereby to receive a just share of public patronage. 1-3m

JOHN P. GALLAGHER.....JOSEPH H. WEED.
GALLAGHER & WEED,
BRASS AND BELL FOUNDRY
And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING, DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, MADE to order. Engineers' Congs made and hung in the best manner. Bank, Vault, Store and Prison Locks, also brass Padlocks and Shop Locks of various patterns, on hand and made to order.
☞ Particular attention given to casting Rudder Braces and Ship Work in general.
☞ All Jobs promptly attended to.—Prices moderate. ☜
No. 125 First Street, opposite Minna, next door to Pacific Foundry.
[Removed from Oregon street, between Front and Davis.]
j2tf

LEWIS COFFEY. J. S. RISDON.
LEWIS COFFEY & RISDON,
Steam Boiler & Sheet Iron Works.

THE ONLY EXCLUSIVELY BOILER MAKING ESTABLISHment on the Pacific Coast, owned and conducted by Practical Boiler Makers. All orders for New Work, the repairing of Old Work, executed as ordered, and warranted as to quality.

Old Stand, corner Bush and Market Streets. Opposite Oriental Hotel, San Francisco, Cal.

Vulcan Iron Works Company.
P. Torquet,.....Manager.
Steam Engine Builders and Boiler Makers,
Iron Founders and General Engineers,

PUMPING, HOISTING, MINING AND QUARTZ-CRUSHING Machinery. Shoes and Dies of the hardest iron. Russia Iron Punched Screens, Steamboat Machinery, Saw, Flour and Sugar Mills. High and Low Pressure Boilers of all styles. JONVAL and other Turbine Water Wheels with latest improvements.
tf No. 187 & 139 First Street San Francisco.

PORTLAND BOILER WORKS.
MOYNIHAN & AITKEN,
BOILER MAKERS AND SHEET IRON WORKERS,

N. B. All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission, between Beal and Fremont Sts., San Francisco.
fy29-tf

WANTED,
Gold Quartz suitable for Cutting Jewelry.
By **FRONTIER & DEVIERCY.**
437 Pine Street, San Francisco.
au31tf.

A. S. HALLIDIE & CO.,
WIRE ROPE MANUFACTURERS.
Established 1857.
Office, No. 412 Clay street—Works, North Beach,
SAN FRANCISCO.

After seven years' use throughout the State of California and the Pacific Coast generally, we can confidently recommend Wire Rope for
HOISTING FROM DEEP MINES,
GUY ROPES FOR DERRICKS, &c.,
STANDING RIGGING FOR SHIPS,
FERRY ROPES FOR FERRIES,
SASH CORD FOR WINDOW SASHES,
ETC., ETC., ETC., ETC., ETC., ETC.

It being Cheaper, Stronger, Lighter and More Durable than any other kind of Rope, and not stretching or shrinking by atmospheric changes.

MINING COMPANIES, by using it for Hoisting Purposes, save 66 per cent. on their outlay for other ropes.

Wire Fencing Strand,

For fencing large parcels of land—permanently, economically and expeditiously. Manufactured in any length desired.

Pamphlets containing weight, strength and price, forwarded free application to the Manufacturers.

WIRE SUSPENSION BRIDGES AND AQUEDUCTS

We are prepared to erect, of any span and capacity, and take pleasure in referring those interested to the many structures of this kind built by us in California, Oregon and British Columbia, of span from 200 to 400 feet. 3-3m

CROCKER'S
STOCK AND ASSESSMENT LEDGER.
Copyright secured—Price $10.

The necessity of a proper book for keeping the Stock and Assessment accounts of Corporations has long been very much needed. One that would combine economy and simplicity, and would not require the services of an experienced book-keeper to keep the accounts correctly. CROCKER'S STOCK AND ASSESSMENT LEDGER has met this requirement; we have submitted it to several Secretaries of corporations, and they acknowledge that the plan is admirable, and just what has long been wanted. The printed headings are a perfect explanation of the manner of keeping it; and any person, whether they understand book-keeping or not, cannot make an error in the accounts. The Stock and Assessment accounts are so arranged that the Secretary can in a moment tell how any stockholder's account stands, both in regard to Stock and Assessments. He can also, with the greatest ease, trace any certificate, through any number of transfers, to the original one issued. It saves a great amount of labor, as it does not require one-fourth the writing of the ordinary method. It dispenses entirely with the old style of Stock Ledger, Stock Journal and Assessment Book, all three of which Secretaries have heretofore been obliged to keep, condensing the whole in one book. To a person who is Secretary of several companies, this book will prove invaluable, and we feel no hesitation in guaranteeing satisfaction to those who may order them. Specimen sheets sent to those who desire to examine it. The books are ruled with one or two accounts to the page. State which is preferred.

Published and for sale, wholesale and retail, by
H. S. CROCKER, & CO.,
Book and Job Printers, Sacramento.

CERTIFICATES and complete sets of books for Corporations, in the finest style, at short notice, and low rates. 4-1m

WHEELER'S
Amalgamating and Separating Pans

IT IS ACKNOWLEDGED BY ALL WHO HAVE EXAMINED THE principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.

The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metal arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the triturating, this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.

Where these Pans have been introduced and operated by the side of others on sands from the same vat, the Wheeler Pans have uniformly gained a large percentage of metals, over its competitors, as well as a still larger percentage in the amount of work performed.

*** These Pans may be seen in daily operation at the Miners' Foundry, on First street, San Francisco, where all interested are invited to call and examine for themselves.
no16-tf ZENAS WHEELER.

Mechanics' Institute Lectures.

A COURSE OF THREE LECTURES WILL BE DELIVERED before the Mechanics' Institute at Music Hall, by the following named gentlemen, who have kindly volunteered their services:—

Professors BREWER and WHITNEY, of the State Geological Survey, and Rev. T. STARR KING.

The Lectures will be delivered as follows:—

THURSDAY EVENING, January 14th, 1864, by Professor Brewer
Subject: Mountain Scenery of California.

THURSDAY EVENING, January 28th, 1864, by Professor Whitney
Subject: ——.

THURSDAY EVENING, February 11th, 1864, by Rev. T. Starr King.
Subject: ——.

Single Tickets, $2; Tickets for Gentleman and Lady, $1.50; Tickets for the Course for a Gentleman and Lady, $4. 2-tf

Pacific Mail Steamship Company.

THE FOLLOWING STEAMSHIPS WILL BE DISPATCHED FROM SAN FRANCISCO IN THE MONTH OF FEBRUARY, 1864.

Feb. 3—ST. LOUIS,.....Wm. H. Hudson, Commander.
Feb. 13—CONSTITUTION,.....J. T. Watkins, Commander.
Feb. 23—GOLDEN AGE,.....Wm. F. Lapidge, Commander.

From Folsom street Wharf, at nine o'clock A. M., punctually,

FOR PANAMA.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company.

A. B. FORBES, Agent P. M. S. Co.,
j1 Cor. Sacramento and Leidesdorff Sts., San Francisco

W. W. HANSCOM,

Steam and Mechanical Engineer. Designs furnished, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc., etc. Agent for McKenzie's Patent Cupola and Blower.

At the Golden State Iron Works,

First Street, San Francisco.

tf.

THEODORE KALLENBERG,

Maker of Models for Inventors.

MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.

No. 418 Market street, San Francisco. n7-tf

FREDERICK MANSELL,

Mechanical & Architectural Draughtsman,

No. 422 California street, corner of Leidsdorff.

Drawings of Models made for parties applying for patents at Washington or London. mar23-tf.

PUMPS! PUMPS!

HARRISON'S

California Lift and Force Pump,

WITHOUT VALVES OR PACKING,

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This admirable work has met with the highest commendations from the Press and Scientific men, as a clear and able exposition of the science as practised in California and Nevada Territory. It is written for the people in good plain English and finely illustrated.

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no30-tf

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MR. THEODORE VAN TASSEL, for eight years with Messrs Le Gay & Co., would be pleased to see his friends at his new place of business. The long practical experience of Messrs. Mead & Van Tassel in the Trade justifies them in saying that their work cannot be excelled either in finish or durability. Having perfected arrangements, we shall be in constant receipt, by every steamer, of soft goods of the very finest of FRENCH AND AMERICAN MANUFACTURE. Our Stock on hand is superb.

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The rooms are handsomely Furnished, supplied with Patent Spring Beds, and Hair Mattresses, affording very superior accommodations for families of single persons.

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j2-tf

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Fire-proof Brick building. Most convenient to the Steamer's Landing, Business stands, and places of Amusement. Open all night. City Railroad Cars Pass the Door.

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FINE BATHING ROOMS ATTACHED TO THE BARBER SHOP. Warm and Cold shower Baths Free to Guests. Thoroughly renovated and newly furnished this Spring. Every room opens to the Light and Air. Each room is furnished with a first quality Patent spring Bed and fine mattresses. The International offers to guests the greatest number

AND BEST FURNISHED FAMILY ROOMS;

And SETS AS GOOD A TABLE as any House in the City.

I am determined that the INTERNATIONAL shall be the most comfortable, best regulated, and in all respects superior to any like establishment in the State, and shall aim to merit a continuance of the popular favor it has enjoyed heretofore. It will be conducted on Temperance Principles.

1-tf F. E. WEYGANT, PROPRIETOR.

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MEXICAN MINING STOCKS,

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OFFICE OF THE PENA AND LA MARRONENA SILVER MINing Companies, San Antonio District, Lower California.

All persons are invited to call and examine Ores from the above mines.

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Patent Cut-Off and Governor,

For Steam Engines.

127 of these Invaluable Machines

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In California and Nevada Territory, giving a perfectly regular motion and

Saving 20 to 75 per cent of the Fuel.

Steen's Improved Governor

IS THE CHEAPEST, SIMPLEST AND QUICKEST TO ACT AND least liable to get out of order of any Governor in use. It can be seen in operation at the Golden State Iron Works, at the Stone Breaker, foot of Montgomery Street and at the Sugar Refinery, 8th Street, San Francisco.

Steam Engines, Boilers, Pipes,

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Anti-Incrustation Powder,

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10,000 Shares.....$100 per Share.

A PORTION OF THIS STOCK IS NOW OFFERED TO THE PUBlic, and recommended as an investment.

Full Paid and Unassessable Stock,

Also Assessable Stock, can be obtained of A. J. DOWNER & CO., the authorized Agents of the Company,

406 Montgomery Street.

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Treasurer.....MONTGOMERY GODLEY.
Superintendent.....WILLIAM FLEMING.
Engineer.....J. E. CLAYTON.

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SPIER RIDDEL.....Paying Teller of Parrott & Co's.
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Office of the Company 328 Montgomery Street. j1tf

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Owen's River Canal Compyan.

FOR SALE, FOR ACCOUNT OF THE COMPANY, 7,000 SHARES of the nave stock, at $1 per share. It is confidently presented to the publicas the best investment, for the price, now offered in this market.

Office of the Company No. 323 Montgomery street. 1tf

Removal.

OFFICE OF THE PACIFIC METALLURGICAL OFFICE IS REmoved to 509 Sacramento street. Having enlarged our works at North Beach, we are now enabled to reduce from 10 to 15 tons of Silver or Gold rock per day.

Gold and Silver ore, and Sulphuret Assayers', or Silversmiths' sweepings reduced or purchased.

COPPER ORES—Highest market rates advanced in cash, for Shipments. S. C. BRADSHAW, Agent,

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AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION OF THE Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

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Manufactured and exhibited at the Vulcan Iron Works, Nos. 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machines now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

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For the accommodation of my many guests I have taken and refurnished the INTERNATIONAL HOTEL, and will carry on the two houses in connection, so that travelers wishing to put up at either house, may take the Tremont or International Hotel Coach and be taken to either House with their baggage, FREE.

tf. F. E. WEGANT.

Mining Notices.

Cræsus Gold and Silver Mining Company, Turnback District, Tuolumne county, Cal.—At a meeting of the Board of Trustees of the Cræsus Gold and Silver Mining Company, held the 4th day of February, A.D. 1864, an assessment of ten cents per share on each and every share of the capital stock of said Company, was duly levied, payable immediately, in U. S. gold coin, to the Secretary, at the office of the Company, south-east corner Howard and Second streets, San Francisco. By order of the Board of Trustees.

San Francisco, Feb. 5, 1864. [6v8-5t] J. F. HARRIS, Sec'y.

Bay State Gold and Silver Mining Company, Turnback District, Tuolumne county, Cal.—Notice is hereby given, that the annual meeting of the stock-holders of the Bay State Gold and Silver Mining Company, for the election of officers for the ensuing year, will be held on the first Monday in March, at the office of the Company, south-east corner Second and Howard streets, San Francisco. By order of the Board of Trustees.

San Francisco, Feb. 5, 1864. [6v8-5t] J. F. HARRIS, Sec'y.

Crockett Copper Mining Company, Copperopolis, Cal.—Notice is hereby given, that at a meeting of the Trustees of the Crockett Copper Mining Company, held January 2d, 1864, an assessment of one ($1) dollar upon each and every share of the capital Stock of the Company was levied, payable immediately, in gold coin, to the undersigned, or to J. M. Pike, at Copperopolis; being assessment No. 2. On the 1st inst. the Trustees als o levied another assessment, being No. 3, of one ($1) dollar per share upon each and every share of the capital stock of the Crockett Copper Mining Co., payable the same as assessment No. 2. Persons having interests in the Company are requested to come forward, prove title, and receive their certificates of stock. ISAAC HECHT, Sec'y,

No. 417 and 419 Sacramento street.

San Francisco, February 5th, 1864. . . . 6v8-5t

Office of the Montezuma Gold and Silver Mining Company, No. 62 Government House, corner of Washington and Sansome streets, San Francisco. Feb. 5th, 1864.—Notice is hereby given, that a sufficient number of shares of the capital stock of the Montezuma Gold and Silver Mining Company, standing in the name of the following person, will be sold at public auction, at the sales-room of Jerome Rice & Co., No. 327 Montgomery street, on WEDNESDAY, March 9th, 1864, at 11 o'clock A. M., to pay an assessment of 12½ cents per share, levied April 27th, 1863, together with expenses of advertising and sale, unless said assessment is previously paid with accruing charges—viz: Hugh McCormick; 247 shares; amount due, $30.87½. By order of the Board of Trustees.

6v8-5t C. A. CRANE, Secretary.

Triunfo Gold and Silver Mining Company.—At a Meeting of the Trustees of the Triunfo Gold & Silver Mining Co. held January 23d 1864, an assessment of One ($1) dollar per share was levied on each and every share of the assessable stock of the Company, payable immediately to the Secretary, at the Office of the Company, No. 1 Government House, in United States Gold Coin.

5v8-5t HENRY S. BROOKS, Sec'y.

Table Mountain Copper Mining Company, Office 528 Montgomery street, San Francisco, January 16, 1864.—Notice is hereby given to the stockholders of the Table Mountain Copper Mining Company, that an assessment (No. –) of one dollar ($1) per share was this day levied on each and every share of the capital stock of said Company, payable immediately, in U. S. gold coin, to the Secretary, or to J. M. Pike, Superintendent, at Copperopolis. By order of the Board of Trustees.

4v8-1m M. O. ELMORE, Secretary.

Bankers Gold and Silver Mining Company, Oold Hill District, Storey county, N. T.—Notice is hereby given that the Trustees of the Bankers Gold and Silver Mining Company have this day levied an assessment of fifty cents per share on each and every share of the capital stock of said Company, said assessment payable immediately, in gold coin, to the Secretary, at the office of the Company, No. 620 Washington street, or to R. C. O'Neill, Superintendent, at Gold Hill, N. T. W. AUGUSTUS KNAPP, Sec'y.

January 18th, 1864. 4v8-1m

Prima Donna Gold and Silver Mining Company, Devil's Cate District, N. T.—Notice is hereby given, that the Board of Trustees of the Prima Donna Gold and Silver Mining Company, at a meeting of said Board, held January 19th, 1864, levied an assessment (No. 5) of fifty cents on each and every share of the capital stock of said Company; said assessment payable immediately, in gold coin, to the Secretary, at the office of the Company, No. 620 Washington street, Room No. 3.

4v8-1m H. B. CONGDON, Secretary.

Mount Eden Mining Co.—Notice is hereby given, that the Board of Trustees of the Mount Eden Mining Company, at a meeting held January 2d, 1864, levied an assessment of One Dollar on each and every share of the Capital Stock of said Company, said assessment payable immediately in gold coin to the Secretary, at the office of the Company, No. 620 Washington street, Room No. 3. H. B. CONGDON, Secretary.

San Francisco, January 16, 1864. 3-5t

Brown's Bronchial Troches for Coughs and Colds.— A neglected Cough, Cold, an Irritated or Sore Throat if allowed to progress, results in serious Pulmonary Bronchial and Asthmatic Diseases oftentimes incurable. Brown's Bronchial Troches reach *directly* the affected parts, and give almost immediate relief. For Bronchitis, Asthma, Catarrh, and Consumptive Coughs the Troches are useful. Public Speakers and Singers should have the Troches to clear and strengthen the Voice. Military Officers and Soldiers who overtax the voice, and are exposed to sudden changes should use them. Obtain only the *genuine*. "Brown's Bronchial Troches" having proved their efficacy by a test of many years, are highly recommended and prescribed by Physicians and Surgeons in the Army, and have received testimonials from many eminent men. Sold by all Druggists and dealers in Medicine in the United States and most Foreign countries at 25 cts. per box.

Agents for California, Redington & Co., San Francisco. 5-1m

Back Numbers.—We have a limited number of past volumes of the Press on hand, which will be sold, neatly bound, at reasonable rates. A portion of the back numbers of the paper can be had by the single copy.

Mr. Jarvis Jewett is our duly authorized advertizing agent and collector in this city.

Black Swan Gold and Silver Mining Company, Reese River District, Lander county, N. T.—Notice is hereby given, that the regular annual meeting of the stockholders of the Black Swan Gold and Silver Mining Company will be held on the first day of March next, at 4 o'clock P. M., at the Company's office, No. 305 Montgomery street, San Francisco. By order of the Trustees. J. S. LUTY, Secretary.

San Francisco, Jan. 27, 1864. 5v8-5t

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. The Mining and Scientific Press Patent Agency has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

Zenith Gold and Silver Mining Company.— Office, 528 Montgomery street, San Francisco, January 8th, 1864.—At a meeting of the Board of Trustees of the Zenith Gold and Silver Mining Company, held this day, January 8th, 1864, an assessment of $1 per share was levied upon each and every share of the assessable stock of said Company, now due and payable immediately, in United States gold coin, to the Secretary, at the office of the Company. By order of the Board of Trustees.

3 M. G. ELMORE, Secretary.

Enterprise Copper Mining Company.—Office 528 Montgomery street, San Francisco. At a meeting of the Board of Trustees of this company, held December 12th, an assesment of ten cents per share was levied, payable immediately, and another assesment of eight cents per share, payable January 1st, 1864, and another assessment of eight cents per share payable February 1st, 1864, all payable in U. S. gold coin, to Thomas S. Levy, the Treasurer, at Lincoln, Placer county, or to the Secretary, at the office of the Company. By order of the Board of Trustees.

M. O. ELMORE, Secretary.

Zenith Gold and Silver Mining Company, Office 530 Jackson street, San Francisco, January 6th, 1864.—Notice is hereby given, that, in accordance with the laws of the State of California, there will be sold at public auction, at the sales-room of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on MONDAY, February 8, 1864, at 11 o'clock A. M., to the highest bidder for cash, in United States gold coin, so many shares of the capital stock of the Zenith Gold and Silver Mining Company, standing in the names of the following shareholders, as will be necessary for the payment of three assessments duly levied by the Board of Trustees, as follows, to wit: Assessment No. 1, Twenty-five cents per share, levied September 24, 1863; Assessment No. 2, Twenty cents per share, levied October 13, 1863; Assessment No. 3, Thirty cents per share, levied December 2, 1863, together with costs of advertising and expenses of sale, unless said assessments, with accruing charges, are previously paid:

Names.	No. Ass'ts	Shares.	Amount.
D. C. Park	1 2 3	30	$25 50
J. W. Sheppard	2 3	20	10
R. W. Hunt	2 3	50	25
W. Wilmot	2 3	65	32 50
E. Franklin	2 3	50	25
W. S. Lyons	2 3	45	23 50
H. M. Beers	2 3	10	5
L. L. Lewis	2 3	20	10
W. Carey Jones	2 3	5	2 50
H. D. Reynolds	2 3	2	1
S. D. Scofield	2 3	10	5
J. P. Bell	3	25	7 50
W. Osborn	3	85	25 50
J. G. Perkins	3	30	9
A. Buetell	3	4	12
Geo. C. Moon	3	87	26 10
Wm. H. Knapp	3	12	3 60
Wm. B. Maxson	3	22	6 60
H. G. Partridge	3	10	3
C. Wilson	3	5	1 50
E. N. Stratton	3	5	1 50
A. Harris	3	84	25 20
Gilman Reed	3	5	1 50
E. N. Longfellow	3	10	3
J. M. Depass	3	10	3
C. Harley	3	23	6 90
J. Thompson	3	5	1 50
G. H. Crowe	3	12	3 60

By order of the Board of Trustees.

The office of the Zenith Gold and Silver Mining Company has been Removed to No. 528 Montgomery street.

3-td M. G. ELMORE, Secretary.

Table Mountain Copper Mining Company.—Office, 528 Montgomery street, San Francisco. Notice is hereby given that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Table Mountain Copper Mining Company, there will be sold at public auction at the office of the Company, San Francisco, on FRIDAY, February 12th, at 11 o'clock A. M. of that day, to the highest bidder, in cash, for United States Gold coin, so many shares of the capital stock of said Company standing in the names of the following Shareholders as will be necessary to pay assessment No. 3, duly levied thereon and now being due and unpaid, together with the expenses of advertising and sale—to wit:

Name.	No. cert.	No. Shares.	Amt.
Samuel Geddes	7, 28, 30, 31, 32	57	257
N. H. A Mason	143	133	133
R. J. Vandewater	136, 156	34	24
John Holman	140	4	4
William Boyer	210	10	10
Levi Drew	205	5	5
Henry Van Vleck	187	25	25

By order of the Board of Trustees. M. G. ELMORE, Sec.

San Francisco, January 11, 1863.

Great Central Mining Company.—Notice is hereby given that by order of the Board of Trustees of the Great Central Mining Company, pursuant to the By-Laws thereof and the laws of the State of California, there will be sold at public auction, on WEDNESDAY, February 10, 1864, to the highest bidder, at the auction rooms of Jerome Rice & Co., 327 Montgomery St., San Francisco, so many shares of said Company standing in the names of the following persons as will pay the amount due for assessments, together with costs of advertising and sale:

Names.	Shares.	No. Assts.	Amount.
Jas S Trimble	100	1 2	$50 00
G W Melone	10	2	2 50
M Devlin	20	2	5 00
W C Smith	5	2	1 25
P H Lovell	25	2	6 25
E H Rockwell	50	2	12 50
Max Strobel	200	1 2	200 00
Jas F Newcomb	100	1 2	50 00

2-1m H. C. KIBBE, Secretary.

Silver Butte Consolidated Silver Mining Company.— Office 528 Montgomery street, San Francisco. Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Silver Butte Consolidated Silver Mining Company, there will be sold at public auction, at the office of the Company, San Francisco, on SATURDAY, February 27th, at 11 o'clock A. M. of that day, to the highest bidder, for cash, in United States Gold coin, so many shares of the capital Stock of said Company, standing in the names of the following shareholders, as will be necessary to pay assessment Nos. 2 and 3, duly levied thereon, and now being due and unpaid, together with the expense of advertising and sale—to wit:

Name.	No. cert.	No. Ass't	Shares.	Amt.
Browning, John	137, 138, 139	3	25	$12 50
Benchamp, J. W.	100, 239	2 and 3	20	20
Butman, H.	152	3	2	1
Cross, J.	191	3	25	12 50
Ebeling, P.	134	3	1	50
Erskine, Geo. B.	301	3	3	1 50
Fallon, M. M.	111	3	1	50
French, B. F.	178	3	5	2 50
Johnson, B. R.	163	3	1	50
Johnson, G. H.	54, 144, 146	2 and 3	26	26
Johnson, G. H.	25, 56, 236			
	240, 257, 258, 259	3	35	17 50
Keck, H.	192 to 199 in. 201	2 and 3	125	125
Loomis, Riley	135, 334, 355, 356	3	26	13
Lord, T. B.	371	3	64	32
Littlefield, J. D	84, 85, 88, 89, 214, 215	3	81	40 50
Mains, J. R.	41, 42, 48, 49, 304	3	27	13 50
Merlam, E. D.	404, 266	2 and 3	21	21
Manchester, A.	100	2 and 3	6	6
Norcross, J. K.	184	3	2	1
Osborn, W. F.	349 350 361	3	23	11 50
Percival R.	66, 91, 95, 98, 282	3	12	6
Sprott, J. B.	211	3	5	2 50
Stratton, S.	212, 393	3	20	10
Wood, Sarah	243, 352	3	6	3

By order of the Board of Trustees. M. G. ELMORE, Sec.

San Francisco Silver Mining Company, Lower California, Office 542 Sacramento street, San Francisco, December 24th, 1863—Notice is hereby given that in accordance with the laws of the State of California, and the By-laws of the Company, and an order duly made by the Board of Trustees of the San Francisco Silver Mining Company, there will be sold at public auction, at the sales-room of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on MONDAY, January 25th, 1864, to the highest bidder for cash, in U. S. gold coin, so many shares of the capital stock of said Company, standing in the names of the following persons, as will be sufficient to pay the assessments heretofore levied and past due, together with the cost of advertisements and expenses of sale, unless said assessments and charges are sooner paid.

Names.	Shares.	Amount.
S. C. Bradshaw	439	$304 05
S. C. Bradshaw, Jr.	20	7 12
Geo. B. Reeves	25	8 12
E. T. Peck	50	17 50
J. R. Stewart	25	17 50
C. H. Parker	75	15 00
G. H. Ames	5	1 00
Wm. H. Buffington	6	1 20
C. Boardman	25	8 12
J. M. Cummings	90	18 00
H. W. Chesnut	10	1 00
Francis Cutting	5	1 63
H. Kimball	10	1 00
Mrs. C. Smith	8	80
E. Sammis	10	1 00
C. Lasselle Taylor	125	12 50
J. R. Warren	10	1 00
Geo. O. Whitney	75	15 00
J. B. Ryder	75	15 00
Robt. C. Bartlett	20	2 00
Martin P. Townsend	10	2 00
John Plukhaber	5	1 00
Mrs. C. S. Brownell	7	70
John Perry	5	50
Simon Strahan	6	60
W. T. James	5	1 62
Henry S. Smith	20	2 00
W. L. Anderson	25	2 50
Chas. M. Cornell	10	1 00
P. J. Wood	25	6 00
John A. Lundquist	5	50
Thos. Pike	25	2 50
O. W. Smith	10	1 00

By order of the Board of Trustees.

dce28-4t H. C. KIBBE, Secretary.

The above sale is postponed to WEDNESDAY, February 10th, 1864, at 12 o'clock M. By order of the Board of Trustees.

5v8-2w H. C. KIBBE, Secretary.

Mammoth Consolidated Gold & Silver Mining Co., Excelsior District, N. T.—Office 528 Montgomery St., San Francisco, Nov. 28, 1863, Notice is hereby given that there will be sold at Public Auction, at the office of the Company, in San Francisco, on Saturday January 9th., 1864 at 12 o'clock, M., of that day, to the highest bidder, for cash in U. S. gold coin, so many Shares of the Capital Stock of said Company standing in the names of the following shareholders as will be necesary to pay assessment No. 1., of ten (10) cents per share, duly levied thereon by the Board of Trustees on the 9th. of May, 1863; also assessment No. 2., of thirty (30) cents per share, duly levied thereon by the Board of Trustees on the 27th of June, 1803, together with all the expenses of advertising and sale, unless said assessments are previously paid to M. G. Elmore, Sec., San Francisco, or to W. H. Dalrymple, Financial Sec., Aurora.

Names	No. Cer't.,	No. Ass't.,	Shares,	Am't.
J B Best	74 343	1 2	300	115 00
G W Baily	344	1 2	200	80 00
J J Coddington	358	1 2	56¼	22 50
D C Crooker	334	1 2	250	100 00
T A Cutter	25 393 to 403 incl'	2	125	37 50
J R Dudleston	27 28	1 2	50	20 00
WD Garland	437 442 450 451 508	2	275	82 50
D H Haskell	65 to 69 incl'	1 2	50	20 00
James Jaques	333	1 2	250	100 00
R P Johnson	443	2	100	30 00
J H Latcham	283 284 288 to 291 incl'	2	60	16 93
E J Mathews	4	2	200	60 00
W Mason	92 462	2	13	3 90
John Patten	416 417	2	15	4 50
Geo Raymand	126 to 131 incl' 136 to 142 incl'	1 2	125	37 50
G H Rogers	143 to 151 incl'	2	200	60 00
J S Shultz	361 487	1 2	95	38 00
G D Myers	360	1 2	5	2 00
A J Severe	170 to 189 incl'	2	200	60 00
N Steiner	118 to 124 incl'	1 2	100	40 00
H S Van Dine	218 338	1 2	175	68 75
H Watson	263 to 267 incl'	2	25	7 50
J C Darragh	268 to 274 incl.	2	50	15 00
J M Meredith	77, 446, 447	2	100	25 00
J Hawkins	73, 452, 456, 455, 454	1 2	175	70 00
C E H Wheaton	570	1 2	25	10 00

By order of Board of Trustees.

M. G. ELMORE, Secretary.

The above sale is postponed until Saturday, January 30th, 1864 at the same place and hour. By order of the Board of Trustees

2 M. G. ELMORE, Secretary.

The above sale is postponed until Saturday, February 27th, 1861.

6v8-3t M. G. ELMORE, Secretary.

AND SCIENTIFIC

Mining Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

VOLUME VIII. SAN FRANCISCO, SATURDAY, FEBRUARY 13, 1864. NUMBER 7.

Editorial.

VENTILATION OF MINES.

The subject of mine ventilation is one which has hitherto been but little attended to in California; yet it is one of the utmost importance, and one which, as our workings become deeper and more extensive, must soon command the especial attention of mine superintendents. All mines, whether they evolve noxious gasses or not, require ventilation. Every one is familiar with the fact that respiration can take place but a very short time in a small, close room, whether it be in an ordinary dwelling or in the deep recesses of a mine. The combustion of candles also absorbs a large quantity of oxygen in a mine—two or three candles requiring quite as much as a man.

A mine when properly ventilated and drained is a more healthy place in which to work, by reason of the evenness of its temperature, than most places occupied by workmen above ground. But employment in a mine which is improperly ventilated, where the miners are compelled to breathe a stagnant atmosphere, is equivalent to deducting fully one third from the lifetime of all thus employed. There is an important consideration arising from a badly ventilated mine which is quite too seldom taken into account by mine owners. It is well known that men employed in such mines are unable to do more than three quarters or two-thirds the amount of full labor. The vitality, and consequently the strength of the workman, depends upon a constant supply of fresh air. If sanitary reasons are of no avail. self interest alone should prompt to thorough and effectual ventilation. There is something besides *time* lost, when a miner has to stop every five minutes to *trim his light.* We have had some personal experience, as a working miner, and know of what we speak. Every working miner who reads these paragraphs will at once recognize their force and importance. The conditions above alluded to often produce losses on a large scale, which are but little appreciated, and often not at all understood by proprietors.

Our object in these suggestions is to call more particular attention to what might otherwise be looked upon by many as a dry, uninteresting and useless detail of the principles of mine ventilation which we now propose to lay before our readers, and which may possibly be "continued" through two or three numbers, of the "Press."

The atmospheric air, in all subterranean excavations, undergoes numerous modifications, by which it is rendered more or less unfit for sustaining life, and often so charged with gases as to produce most disastrous explosions when brought in contact with the flame of a candle or lamp. With regard to the latter conditions we shall, at present, have nothing to say. They are conditions to which California mines are as yet but little exposed. At some future time we may consider them at length. The only inconvenience to which the California Miner is exposed, from want of ventilation, is a lack of the necessary amount of oxygen to sustain life and give healthy action to the lungs. All that is necessary is to produce and continue a regular current of vitiated air from the mine to the surface and a corresponding current of fresh air from the surface to the interior of the mine, to supply the place of the ascending current. Many costly, and often bungling contrivances are at times employed to accomplish this result; but generally, we apprehend, without any true conception of the laws by which even they are governed.

The ventilation of mines is sometimes effectually produced by natural causes alone; but generally artificial means have to be applied, to a greater or less extent, to accomplish the desired results. There are almost always circumstances which will produce a more or less feeble current of air through a mine, but usually uncertain in its force, and often entirely inoperative from no apparent reason, except that derived from a close examination into the laws which govern the movements of aeriform fluids. Hence the subject is divided into natural and artificial ventilation. Let us first examine into the

LAWS WHICH GOVERN THE MOVEMENT OF AERIFORM FLUIDS

or natural ventilation. When several aeriform fluids of different degrees of density or weight are contained in a vessel they have a natural tendency to arrange themselves according to their different densities—the heaviest at the bottom. Again when aeriform fluids of different densities are placed in separate vessels connected together as in fig. 1, but at unequal elevations, the lighter fluid will have a tendency to find its way to the upper vessel and the heavier to the lower, and thus a current will be produced and continued so long as any of the lighter fluid is left in the lower vessel, as for example, the two vessels A and B :—

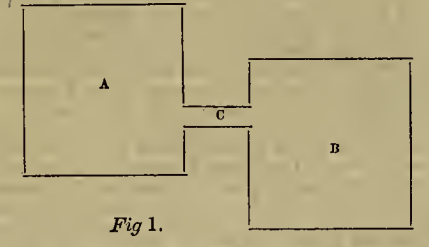


Fig 1.

If the lighter fluid contained in the vessel A has to pass through a long tube, C, before reaching A, the movement of this fluid meets with a certain degree of resistance, which of course diminishes its rapidity. This resistance is caused in part by friction against the sides of the tube, and in part also from the friction of the two counter currents which must be created in the tube C. This resistance is proportionate to the length of the tube, density of the fluid, nature of the walls of the tube, etc.

If the fluid pass from the tube A, in figure 2, into the smaller tube B, it increases in rapidity on entering the latter. If, in passing through the tube A, it is obliged to encounter the narrower orifice, D, as in figure 3, and is subsequently allowed to continue its course through the elongation of the tube A, at E again enlarged to its original dimensions, the rapidity will increase at the passage of the narrow orifice D, to reassume its original speed at E, diminished much more than in proportion to the resistance it has met in the passage D.

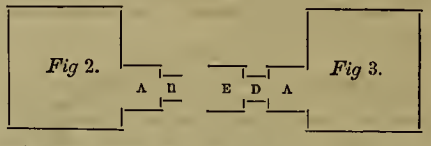
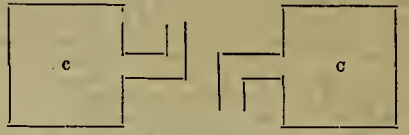


Fig 2. *Fig* 3.

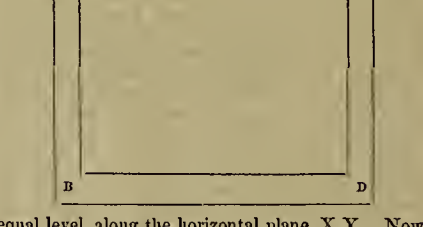
Again, if the tube instead of being horizontal, should be inclined, the pressure due to gravity will increase or diminish the speed of the escape, according to whether gravity acts with or against the movement, as will be readily inferred from the following diagrams marked C. C :—



With this explanation of the natural laws of aeriform fluids, we are now prepared to examine the

NATURAL CAUSES OF THE CIRCULATION OF ATMOSPHERIC AIR IN MINES.

Let us suppose two vertical shafts, A B, C D, communicating by a horizontal gallery, B D, so that their principal orifices, A and C, shall be upon an



equal level, along the horizontal plane, X Y. Now, if the air contained in the shafts and gallery above described be everywhere of the same density, it is evident that no movement will be produced from either shaft to the other, or, in other words, there will be no natural ventilation. But if one of the shafts, A B, for instance, contains a columns of air of less density than the air in C D, the equilibrium will be broken, and the heaviest column will descend and force the lighter column up and outward. We shall resume this subject, with further illustrations of a more practical nature, in our next issue.

The bill for the repeal of the Specific Contract Bill was killed in the State Senate on Wednesday, by a vote of 23 to 15.

"An Observer," Aurora, is requested to write us again, as we have lost his address.

[Written for the Mining and Scientific Press.]

Murphy's, Calaveras County.

BY OUR TRAVELING CORRESPONDENT.

Mr. Editor:—There was one little section of Calaveras county which I had not visited up to the date of my last letter, and as it contains mineral wealth of great importance — gold, silver, copper, and *tin*—reliably developed, I thought it better, while in the neighborhood, to run across. I am glad I did so, for I find the people of this quiet little town on the point of opening the first reliable *tin* mine on the continent of America. Will the wiseacres in San Francisco still persist in regarding these counties—Tuolumne and Calaveras—as the Jews did Nazareth, because, as they think, "no good can come out of them?" Well, by and by, Messrs. Darling & Co. will claim the $30,000 premium offered by Congress for the first American tin mine, and then the scales will fall from the eyes of these unbelievers, and they will bitterly regard the infatuation which has led them so long to neglect this portion of the State, which I honestly believe, after a full and careful examination, to be the richest mineral region in the world.

A VERITABLE TIN MINE.

This discovery of tin is of such importance that I shall give it precedence of all matter in this letter. You may recollect in my *second* communication from Copperopolis, I stated this metal would ultimately be found in Calaveras county, and some were pleased to laugh at the prediction. I knew, however, what I was saying; for I had even then seen enough to assure me of the fact, so I patiently waited my time. Those laugh loudest, it is said, who laugh last, and now my turn has come. The first day I was out about Murphy's, in company with Mr. Manly, I became convinced of repeatedly crossing over tin croppings; for, though to the casual observer they appear to resemble copper croppings, they are in reality quite different. Still I kept silent upon the matter, for I believe, at times, in the aphorism of Cicero, "that too much wisdom is no wisdom at all;" and least, as representing the Mining Press, I might be accused of talking for talking's sake. I knew very well, that this ledge at some point or other, would be opened, if not for tin, at least for copper, and that I would have an opportunity of forming a final judgment, as I visited the different claims. In this, I judged correctly. The same evening, Mr. Darling sought an introduction, requesting me to visit him in the morning, as he thought he had a tin mine. I did so, and found his surmises correct. There is no doubt about the matter; it is a tin vein, and a rich one. Some twelve months ago, it appears, Mr. Darling was struck with the peculiarity of these croppings, selected some of the richest rock, had it competently tested, and found a reliable yield of tin. At a subsequent period, some rock was sent to an assayer in San Francisco, without any particular directions, and concluding, I suppose, that all rock from this section would be for gold and silver, he returned "a little gold, a little silver, but neither in quantity worth working." He had evidently never dreamed of tin, and overlooked it. I have no doubt, had he been directed to test for that metal he would have sent a very *flattering* return. However, nothing daunted, but self-reliant and determined, Mr. D. took up the claim, formed a company, run his tunnel single-handed 136 feet, cut the vein, and to-day enjoys the proud distinction of discovering, and principally owning the *first* tin mine, I believe, in America. Up to the time of my arriving at Murphy's, the matter had been kept secret; but, during a subsequent ride over the hills with Mr. Jordan, to see his copper claim, we traced this vein for six miles, and found also a parallel vein, showing equally strong; the secret is out, and by this time, I expect the country is located for miles. Such is the history of the

UNION TIN COMPANY.

It contains 900 feet in 6 shares. Tunnel very handsomely opened. 136 feet just cutting the vein from 8 to 10 feet thick, as nearly as I could judge. The vein is remarkably strong and healthy, and well impregnated with mineral. It lies about a mile northeast of the town. Unfortunately the level of the tunnel, 70 or 80 feet below the surface, will not be deep enough to strike the ore; but I think a shaft sunk at the end of the tunnel, from 30 to 40 feet will do so. Mr. Darling, a very intelligent and gentlemanly young man, has promised to report his progress to you. We must now go to San Domingo, five miles from Murphy's towards San Andreas, and the northern limit, so far as known, of the copper formation. Here first is the

MOBILE.

It contains 2,200 feet in single foot shares. This vein was first found in the ravine, by placer miners. At 17 feet, it showed very excellent ore, ranging, I believe, from 16 to 37 per cent. The new shaft is 80 feet deep, 6 feet 3 inches in the clear, and very well timbered and finished. From this they are now drifting to cut the vein, and have some 16 to 20 feet to run. A large rich vein is expected at this depth. The upper works contain a 20-horse power steam engine from the Golden State foundry, a building 38 by 40, with all conveniences, which are kept very neat. Eleven hands are employed night and day. Mr. Sloss is Superintendent, and the condition of the mine does him credit. A short mile below, on the same vein is the

SAN JOSE.

It contains 3,000 feet in single foot shares. Main shaft 20 feet, abandoned for a tunnel already cut 80 feet with 180 feet more to run. Rock very hard, but of good character. They will cut the vein at 160 feet from the the surface. Some two miles or more north and west of this is the

STAR.

It contains 1,800 feet in 12 shares. Main shaft 20 feet, opening well, with vein reliably developed, 6 feet wide, showing, for the depth, superior oxide ore. Still I think they will have to go down from 40 to 50 feet more. Returning from here to town, probably one mile and a half, is the

GERMAN RINGE.

It contains 2,400 feet in single shares. Main shaft 36 feet deep, with a small cut to show the entire width of the vein. This, in my opinion, will be the richest claim in the district; the vein is 15 feet wide, and really magnificent in its indications. Work suspended for a short time, until the company make arrangements to cut a new tunnel, which they can do with great advantage. It will not be over 200 feet and will cut the vein at about 140 feet deep. There are several other promising copper mines in the neighborhood, some simply located, some merely opened. Of the latter, is the United Consolidated, principally owned by Mr. Manly, a large strong vein which is well located for tunneling. I have not time or space, at present, to do them justice, as I wish to speak of other mining interests.

I made the statement, at the commencement that gold and silver prevailed here, as well as copper and tin and they do largely. Indeed, all the auriferous veins yield silver, I believe, in paying quantities, but as yet they have only one really distinct silver vein, that I know of. It is called the

SILVER ELEPHANT.

It contains 1,800 feet, situated a short distance south of the town, near the school-house. The vein is 2 feet thick, and from their shaft, between 30 and 40 feet deep, the company have raised quite a large amount of very fine looking rock. Some of it almost equals the Gould & Curry. The splendid specimen Mr. McGowan of Alameda carried down for your cabinet, is from this claim, as well as the unburned piece. There is no mistake about these specimens, for I personally know them to be as I state. It is not every rock at Washoe, by any means, that will show the same amount of silver from the blacksmith's forge, that the piece which I sent you does; and yet, Mr. Crispin has even finer ones, intended for exhibition in San Francisco. Now, I have an idea that if I were to state such rock came from Calaveras county, men on Montgomery street would unhesitatingly tell me I either lied or had been deceived; but, if I told them it came from Imps' Delight, or Damnation Flat, 500 miles over the mountains, there would be a general stampede for that blessed spot, in less than a week's time, the same as there was to Reese River last summer. So much for our infatuation and folly. Going out behind the town, by the Catholic chapel, are two other promising gold veins. The first is McGowan's, called the

NEW ENGLAND.

It contains 1,000 feet, and is owned principally by Mr. McGowan of Alameda, and Judge Sheppard of the Police Court in S. F. I tested some of this rock, not selected either, with Mr. McG. and found it prospected free gold (fine) very handsomely. The main tunnel is 200 feet, side one 80 feet, with a shaft in the latter 30 feet deep, from which they are taking excellent rock. There is also a strong copper vein running through this hill. Next beyond this comes the

GOLD AND SILVER MINING COMPANY.

I do not know the dimensions of this claim. The tunnel is in 100 feet, with a side cut 45 feet to avoid a streak of very hard rock, and 250 feet to go. It will cut the vein 106 feet deep. This tunnel unquestionably, shows the best workmanship I have yet seen anywhere, and that is saying a great deal. It is owned principally by Messrs Goldsmith and Dr. Boyee of Montgomery street, Mr. Gaylord, Superintendent. On the other side of the town, from here is a very large hill, which I understand carries a number of good veins. I can only now speak of one, which I visited with Mr. Jordan. I believe it is called the

AUSTRIAN VEIN.

It is owned by a company at Murphy's, who are working the claim on a safe principle. The rock, so far as tested and prospected, is known to be rich. The vein averages from 12 to 18 inches, which they are stripping and going to strip before they take it out. By this method they will obtain a correct knowledge of the depth and continuation of the vein, and if at last they find it warrants a mill the company will put one up; if not, they will have sufficient rock, anyhow, to pay all expenses incurred. I call that a very safe and prudent mode of working and well worthy of imitation. Such are the mines immediately in and around Murphy's. In my next, I shall speak of Douglass Flat, Vallecito, Melones, and Angels.

I cannot close, perhaps ought not, without saying that Murphy's holds its own, although the great glory of its placers has departed. It owns one of the handsomest school-houses in the State, and gives a good roll of pupils. The fine fire-proof hotel, kept by Messrs. Sperry & Perry, has the highest reputation as a mountain house, among the numerous visitors to the Big Trees, and well deserves that reputation. The proprietors are very gentlemanly men, and in my opinion, too good looking to be bachelors. I believe the ladies think the same. The Catholics here, as all through this section, have a handsome brick church. There is also a good armory. To myself the most interesting was Dr. Jones' cabinet. It's a perfect *bijou*. It contains two large teeth of a mastadon, in splendid preservation—a molar and incisor—which are alone worth going all the way to see. The Dr. is quite an enthusiast in mining, and like myself a great believer in the wealth of the country. I enjoyed an hour's chat with him very much. In conclusion, I beg to acknowledge the civilities of the Doctor, Judge Burrows, Messrs. Crispin, Jordan, Metz and others.

L. H.

[Written for the Mining and Scientific Press.]

Lincoln, Placer County.

BY A TRAVELER.

Messrs. Editors:—Before entering into a detailed account of the copper mines in the vicinity of Lincoln, allow me to tender my acknowledgements for the kind reception I received from your numerous friends at Lincoln, and to Mr. Lovy in particular.

The mines in this section, at present, are not exciting much interest, from the fact that a great many of the claims have suspended work until Spring. The only claims in operation which I visited are the Baker and Crosby, the Wilson and the Empire. Prospecting has been carried on to considerable extent, and with much energy, in several other claims in this vicinity. The three claims above mentioned run parallel with each other, and are divided by a belt of slate, showing that they are on three distinct and separate lodes. The croppings of the ledges are heavily impregnated with the sulphurets of copper and silver, and the mundic is also distinctly visible, which speaks well for the outside appearances. In general, the ore-bearing belts here are irregular in their dimensions, but constantly observing a certain degree of parallelism. I traced them for several miles. The Baker and Crosby have got their main shaft down 80 feet, but at present are taking out ore about 40 feet from the surface. I went into their shaft where they were drifting, and found that they had struck a belt of rich ore, composed principally of black oxide, sulphurets, and malachite. They are extracting enough ore to pay them to commence shipping, and have already sent some to your city, which made good returns. By sinking about 20 feet deeper I think they will strike a lode of pure yellow sulphurets.

About three and a half miles from the Baker and Crosby is the Wilson. This is where the first discovery was made. The company have done considerable work on their mine, having erected an engine for the purpose of pumping out the water, which at present troubles them considerably. They were not

at work at the time I was there, consequently I did not have a chance to descend into the shaft, which is about 80 feet deep. The rock which I examined is of the same character as that of the Baker and Crosby, and I was informed by the superintendent that they have found the lode.

After a hard ride of about three miles we reached the Empire. Of this claim, I am sorry to say, I lost my memorandum; yet it is sufficient to say that they have the same indications as the above mentioned claims. The working of the claim is ably conducted by the superintendent, who seems to fully understand his business. The placers in this vicinity pay well, but at present, like most other mining localities, are short of water—that element so highly essential to all placer diggings.

As I gave this section but a hasty visit, it is impossible for me to do justice to many claims which I traveled over, but could not stop to examine; yet in the Spring, when most of them will be at work, I intend giving them another call, and you may then expect a better report.

MARYSVILLE.

This city is rather dull at present, and it is impossible to find a place in California at this time of the year that is not, especially during this dry winter. With the completion of the railroad to Oroville, and the opening of the spring trade, times will be decidedly improved. I made a visit to the Masonic Hall, now in process of erection here, which, when completed, will be a fine and costly edifice. The main building is 81 feet 9 inches in length, 66 feet wide, and 63 feet high. The large hall will be 60x88 feet, in the clear, and 23 feet high. The total cost of the building will be about $24,000, and the structure will be second to but few buildings in the State. The Masonic Hall in Marysville will doubtless reflect credit on all who are concerned in its erection. J. M. W.

Written for the Mining and Scientific Press.]

The Great Desert and its Mines.

But few of our readers that have not made special investigations, have any true conception of the character and extent of the "Great American Desert." To the weary emigrant it is a remembrance that represents in his mind the *absence of everything desirable in this life.* To our people, as a social community, it is the great gulf that divides us from the friends of the old homesteads. To the naturalist, and the scientific investigator, it is a region of profound interest. There it lies in the bosom of the continent—desolate, barren and vast—its dreary waste made hideous by the blackened evidences of internal fire. Even its vegetation is forbidding, consisting principally of sage-brush and greasewood, that lays like a thin gray mist over hill and plain, giving to the whole scene a dull, smoky, monotonous appearance, that is extremely suggestive and uncomfortable. A man can never feel his own littleness so well as when traveling alone over those desert wilds. Look where he may, the same desolation presents itself; nothing that has life or beauty to be seen; his senses and sympathies rush back upon him in despair, like Noah's dove, unable to find anything to rest upon, and he at last realizes, for the first time in his life, that he is *really alone.*

Thus much by way of introduction to this hard-favored region of North America. We will now look at its boundaries and its geographical subdivisions.

This great desert extends from Southeastern Oregon to Northern Mexico, and from the foot-hills of the Sierra Madre and Rocky Mountains to the foot of the Sierra Nevada and San Bernardino ranges, having a northerly and southerly extent of over 800 miles, and a width from east to west of from 400 to 500 miles. Its area is over *three hundred thousand* square miles, including in its limits portions of Southern Oregon and Idaho, nearly all of Nevada, Utah and Arizona Territories, and more than one-half of Southern Californiа.

This vast region of desert, mountains and plains, is divided into two grand divisions by high and very irregular ridges and isolated ranges of mountains, connecting with the Sierra Nevada near Mono Lake, and running easterly near the thirty-eighth parallel of north latitude to Santa Clara Run; thence curving to the northeast until it unites with the dividing range between Green river and Salt Lake basin. This line forms the southern rim of the Great Basin, which includes at least one-half of Utah, three-fourths of Nevada, and a strip of Southern Oregon and Idaho. This is the northern grand division of the Great Desert.

The southern grand division comprises all of Nevada and Utah Territories south of the rim of the Great Basin, all of Southern California east of the San Bernardino range, and at least three-fourths of Arizona Territory. This grand division is sub-divided by the Colorado river, and is therefore called the Colorado Desert. This remarkable river is formed by the junction of Green and Grand rivers and the Little Colorado, all of which streams take their rise from the western watersheet of the Rocky Mountains. The united stream then flows westerly through the Black Cañon until it approaches within a few miles of the 115° of west longitude. From thence it turns abruptly to the south, and flows in a tolerably direct line to the Gulf of California. The river is navigable for light-draft steamers from the Gulf to the mouth of Black Cañon during the spring and summer months, a distance by the river of about 600 miles.

The Colorado is remarkable for its turbid waters and strong current. The water is always muddy, but the strangest feature of its muddiness is the fact that it changes the color of its mud, sometimes within a few hours, from a dark, grayish, loamy color to a bright chocolate red, and so thick that you can not see any object an inch under the surface of the water. It will retain this bright, red color from one or two to ten days, then gradually change back to the dark muddy color again. These sudden changes are caused by the heavy showers that prevail in the mountains during the summer months, on the head-waters of the Little Colorado, which is a small tributary that has its source in the red chocolate mountains in the northern portion of Arizona and western portion of New Mexico Territories. Some of its branches interlock with the northern branches of the Gila river, in the Apache country, north and east of the new gold mines, and is but little known by our people.

Whenever the clouds lay heavily on the mountains in which the Little Colorado takes its rise, the water will change to the bright red in about 24 hours afterwards. These facts cannot be observed with any certainty, however, below the mouth of Williams' Fork, the rain-clouds being shut off from view by intervening mountains. The volume of water in the Colorado is about the same as that in the Sacramento, though the channel is not so deep and regular, the current is much stronger, running at a rate of from three to five miles per hour. As a consequence the channel is full of shifting sand-bars, that makes its navigation slow, and in some seasons of the year difficult. During low water the sand-bars and channels are very much like those in Feather river below Marysville, and boats of the same class as those on the last named stream are the only ones at all suitable for the navigation of the Colorado. The narrow channels between sand-bars, and narrow passes between rocks, make side-wheel steamers impracticable. But this river, with all its sand-bars and mud to impede navigation, is the only base line of supply for Arizona Territory and the southern slope of the Great Desert. From this river must be drawn nearly all the supplies of food, clothing, tools and machinery for the miners of Arizona, whose rich and extensive mines must soon attract a large mining population. Then the Colorado of the Desert will swarm with boats, and its principal depots will be large cities.

In this article I have only attempted to give an outline or skeleton view of the Desert. In subsequent articles I will speak more particularly of the mines and their lines of communication.

C. E. Clayton.

[Written for the Mining and Scientific Press.]

Esmeralda Correspondence.

Aurora, January 23d, 1864.

Mr. Editor:—Having often thought that a truthful statement of the condition and prospects of this mining district might be desirable to the people of California, and beneficial to the inhabitants of this place, when disseminated through the columns of your widely circulated journal, I have concluded to send you this communication.

THE CLIMATE

Is pleasant; not too hot in summer, being always fanned by a cooling breeze during the day, while the evenings are cool and pleasant. We had a few light thunder showers last summer, and considerable dust, but seldom much wind to disturb it. Up to this time, the present winter, we have had beautiful weather, cold at night, but very pleasant during the day; but I cannot say what kind of weather we may have between this time and May. We hope, however, to have some big rain and snow-storms to furnish water for mining and mill purposes, during next summer.

THE MINES.

With regard to the mines, I will endeavor to state the truth as near as my judgment and experience will enable me to do so. As far as we have prospected there is no doubt about the number or the richness of the ledges, but, as yet, not one of them is more than half prospected. No shaft in this district, so far as I can learn, has been sunk over 200 feet, and none as deep as the gulches that surround the hills. There is one company that has sunk a shaft in the gulch 50 feet, which has struck first class *silver ore*—a circumstance which I think tends to prove that the best silver rock is below the base of the hills. I believe the great mistake is that companies don't sink deep enough. Even that old company, the Wide West, is not within 100 feet of being down to a level with the base of the hill, but I understand they have commenced sinking lately. There are very few tunnels, even, but what will have to sink on the ledges, when they strike them, to get first-class silver ore.

On Silver Hill, the Falls of Clyde have run through a 14-foot ledge, and a little further on have struck another. The next tunnel, the Ruth Windsor, is a good location, but I believe work has been discontinued. The next is the Oxford Beta, an equally good location, which is going ahead fast, and will soon strike the lead. The Budell, next to the Beta, is a good location, but work is discontinued here also. On the opposite side of the hill, at the lowest point of all, is the Gertrude, which is in some 700 feet. It will strike the ledges 300 feet lower than those just mentioned. West of the Gertrude is the Young America tunnel, which will strike two large ledges in less than a month, as they are pushing it along day and night. Further up, along the same gulch, are the Walworth, Great Western, Napoleon, Stanford, Toledo, Windsor and Peru, none of which, I believe, are in much over 300 feet. The Walworth has struck a large ledge, and are sinking deeper on it. The Hamlet is going ahead well, and has run through one small ledge, but is bound to strike two more in less than two months.

The ledges that are most prominent on Silver Hill, and that are being prospected with energy, are the Antelope, which I think is the best in the district for investment. The Iowa is about as good, but they have no mill. The Utah is a good old location, but the capital has not been judiciously expended upon it. A large sum has been expended trying to prove that the Cortez has been located on their ledge. I think it will be very expensive to prove it conclusively, if, indeed, they can do so at all. The Cedar, which runs parallel and close by it, is an old title and a rich ledge, but is not now being worked. The Yancey is working, and is a good claim, but not properly developed as yet. The Old Winnemucca is always still. The First North Extension, I believe, could be equal to almost anything in the district if it could be only properly managed; but the work that has been done don't amount to anything, as it has been done on a different ledge from the one they located, and which is now called the Blackberry, which is a first rate ledge. In the same locality is the Davenport. They have a dwelling house on the ground, also a blacksmith shop in their shaft-house. Everything seems to go along briskly night and day. I understand they are down about 70 feet, and have a ledge about nine feet wide. They have started another shaft, for the purpose of having a drift between them. Next to the last is the Comstock. They also have a house for the hands to live in, and are down some 75 feet, with a drift. In the same locality is the Hidalgo, a very promis-

ing claim, which is being worked vigorously, and is down over 80 feet. They have a large lot of rock to crush. A little further north is the Silver Hill, which is an old location, and is being constantly worked. There is every prospect of its coming out big. The Union tunnel, running in from the gulch below, is always going ahead, and I hear they have struck a good ledge.

It is unnecessary for me to mention the Del Monte or even the Crocket, as they are well known. The Garibaldi is producing fine rock, extremely rich. The mine seems to be well managed, at present. The Dayton is a good old location. They have a very large ledge, which is easily worked. I think all that is necessary to bring it out, is a little capital expended upon it. The Pensylvania, Unadilla, Enterprise, Howard and Monroe & Thatcher tunnels running into the hill, are all bound to strike soon, as they are all in from 600 to 800 feet, and are being worked night and day.

The great evil here is the greed of individuals to hold ten times as much ground as they can work in a proper manner. Another great evil arises from the reports of mining claims in our local papers. About three fourths of such reports are mischievous fabrications or false information, derived from interested parties who report claims as being worked, which have remained for four, five or perhaps six months idle, and oftentimes to the little astonishment of the owners themselves. It is very bad policy for the people of any district to pursue such a course. Knowing that when these misrepresentations are found out, it causes a doubt in the minds of people at a distance of *all* reports of claims, even such as are true, as they are unable to distinguish between the true and the false report.

There is no doubt with regard to the value of our mines and if we only had the capital we should soon astonish the world. We have any quantity of Del Montes, if they were only developed.

An Observer.

California Coal, Iron and Copper.

Mr. Editor:—I observe in your paper of last week, a refereuce to one of my suggestions in regard to California Coal. "The step grate" referred to in my letter of Sept. 21st, '63, is no less available for use without a blast. Among other improvements noticed in your paper, and on which I promised further information, was the use of iron reduced from oxides without fusion, technically known as iron sponge, in the reduction of copper by precipitation. This was introduced in Norway, but works have recently been established at Warington, England, for Messrs. Roberts, Dale & Co., in which a new modification is added, sufficient coal is used to prevent the iron even clotting together, and it is employed loosely as a powder. The economy of this preparation of iron is evident. A Poor Chemist.

San Francisco, Feb. 10, 1864.

More Copper Shipments.—The first shipment from the Oriental Copper Mine, in Amador county, is now arriving in this city. This ore has been selected, and will average 23 per cent. in quality. It was taken from shaft No. 2. The company have a large lot of No. 2 ore at the mine. All that has thus far been raised has been taken from the shafts. No drifts have yet been commenced.

Correspondence.—Thanks to "An Observer," "M.," "J. E. C.," "L. H.," "J. M. W.," "F. W." and "R. W. D." for their favors this week. Valuable communications have also been received from "H. O. G. S." and "Quartz," Humboldt, "L. H.," Calaveras Co., and other correspondents. Also, extracts from R. R. letters.

An alarming report that the fleet of British war steamers, pretended to have been built for the Chinese Government, is now preparing for an attack on San Francisco, lacks confirmation.

A severe accident occurred from a cave in the Ophir mine, at Virginia City, on the 3d. A man named Wm. Bone was killed and several others injured.

It is estimated that the steamer Constitution, for Panama, will carry out over $1,000,000 to-day.

☞ Parties desiring to learn the place of business of any Mining Company, should call upon us.

MINING GOSSIP.

EDITED BY FRANK WARDDELL.

[In this department of the Mining and Scientific Press we propose to give various and brief accounts of mining companies, and shall, under all circumstances, write *plainly* respecting their merits and de-merits; furthermore, we shall bring to light such transactions as may come within our knowledge regarding the "Bulling and Bearing" system and the "underground" actions of both Trustees and Brokers. We are vain enough to suppose, at all events, that we have the "inside track," and shall, without *hesitancy or fear*, give to the public, from time to time, a peep behind the scenes whenever the occasion justifies. If, in doing so, at any time we have fallen in error as to our reports, and it can be so proven, nothing will afford us more pleasure than to make the "*amende honorable*" by correcting the same. We shall feel under obligations to those who are interested in stock if they will communicate to us such items as may come under their observations, and which will prove interesting to our readers. This department is open for free discussion to "one and all." Our object is to render justice to every one. Communications, in all cases, must contain the author's name and address to insure publication, which will be kept *strictly confidential*—otherwise no notice will be taken of them.]

Real Del Monte and What we Know of It.—Again we are compelled to refer to this stock, owing to the prominent position it occupies in the market at present; and in consequence of the numerous reports which have been circulated during the past week respecting the causes of its great fluctuations. We now state what we know concerning the same for the benefit of those interested. Our information is derived from a gentleman of high standing in the community, from one who has purchased heavily in the mine; and, furthermore, from one upon whose statements the utmost reliance can be placed. Our informant, not being satisfied with the outside reports, despatched a special agent to the mines, with instructions to give it a careful and thorough examination, after which to report to him at once, and exactly how matters were. This agent, who, by the by, is a person well versed in the art of mining, proceeded to the mine, and, upon examination, discovered that for a distance of twenty to thirty feet, a large quantity of white quartz was visible, following which, was over one hundred and fifty feet of as good and rich rock as he ever desired to look upon. His advice to his principal was, under no consideration to sell one foot of his stock, no matter how the market stood, for eventually it must prove very valuable. As luck would have it, the agent was just in time to make the above examination; for on the next day *the trustees caused the mine to be closed to all outsiders*. This, as a matter of course, got noised upon our streets and aroused the suspicions of the majority of purchasers, and the cry went forth that the mine had given out, etc., etc. If one half the accounts we have heard should be written out by us, it would take at least two of our editions to publish them. Now, we ask, what right had the trustees to close up the mine? What right have they to keep matters so quiet, and to conduct all their transactions *sub rosa?* Why dont they open their books and their minds at the same time to the anxious stockholders and let them know how things are going. The stockholders should *demand* it, and not allow themselves to be kept any longer in ignorance. We have not the least doubt but the mine is as represented above by the agent. No, the trustees are playing a little game among themselves to "dupe" outsiders and in the end to "feather their own nests." It is time that such infamous and outrageous species of modern, genteel fraud in the management of mining companies should be done away with. Let the people make an example of this company. The idea of sacrificing people's money with impunity, when a report from the superintendent of a mine would obviate and remedy the evil, is an imposition of the worst character, and it is time the "game" was "blocked." Let the holders of Real Del Monte call a meeting and, in a body, demand an explanation and their rights—as stockholders. Then and not till then, gentlemen! will you know how matters stand.

The Aurora *Times* of Feb. 6th contains the following paragraph, fully sustaining the conclusions of our informant:—The bulls and bears of the California metropolis have got the Del Monte in their clutches, we suppose. A deep game is being played in the affairs of that company. It is certain there is no let up to their rich and extensive mine. The ledge shows no signs of giving out, and the rock is richer than ever. Their magnificent new mill, and also the old Starr & Tucker mill purchased by the Del Monte Company, are running steadily, day and night, on the rock from their rich mine, turning out large and beautiful silver bricks at every clean-up. Real Del Monte stock was never more valuable than it is to-day, although quoted at less than $200 per share. [Quoted in our reports at only $72.50 per share.]

Open Board.—This new Board will commence operations for the first time on Monday, Feb. 15th. Mr. Jones, at one time connected with the well known auction house of Messrs. Haggerty, Draper & Jones of New York, will act in the capacity of auctioneer of this Board. We trust that Mr. Wallace will meet with success in his new undertaking. We refer our readers to the advertisement of Mr. Wallace in another column.

Wont Work.—The S. F. Board of Brokers have again come back to their old regulations, by doing away with the "Open Board" system. They have given it a fair trial and found that it was more detrimental than beneficial. While an "Open Board" it only acted as a rendezvous for outsiders to gain information respecting the market, to guide them in their operations upon the street.

Lively Times may be expected between the 15th and 28th of the present month, when the immense number of "high figure" Real Del Monte contracts become due. If our brokers can "carry the load" and thus "hold their own" they are a stauncher body of men than the public generally give them the credit for. We sincerely trust however they will be able to do so and that none of our friends will be "broke in the Board," for non fulfillment of contracts.

Daney G. and S. M. Co.—As the question is asked, why this stock went up in the market? we answer that we know of no reason, without it was on account of their having taken the water out of their shaft. We think it is only a temporary rise, although we are all liable to be mistaken, especially in these flighty stock times.

In Luck.—Mr. Shotwell, long connected with the mercantile house of Messrs. Alsop & Co. of this city, as cashier, has received the appointment of secretary of the Gould & Curry Mining Co., at the comfortable salary of $5,000 per annum. Really! not so bad to take these hard times.

Dividends.—A resolution has been passed by the Pacific Board of Brokers to prohibit the purchasing and selling of stock dividends. We are glad to hear it, as we always considered this the worst feature, next to "selling short," in stock transactions.

East Lynn G. and S. M. Co., Owens River.—This stock is becoming quite a favorite in the market and is eagerly sought after at prices varying from six to eight dollars per share. We predicted as much some time ago and are now pleased to witness our ideas coming out correct.

New York Consolidated, Esmeralda.—This company are progressing finely with their work and reports received here are of the most encouraging nature. We wish the "boys" success in their enterprise for they are hard workers and deserve a rich reward.

Chollar.—Up to the latest advices they have not as yet found their lead. We hope they will be successful soon or else many will be afflicted (if not already) with the Chollar-a-morbus.

Napoleon Copper Company.—At a meeting of the shareholders of the Napoleon Copper Mining Company, held on the evening of the 11th instant, the following gentlemen were elected trustees for the ensuing year: Charles F. Lott, Wm. L. Dall, W. F. Babcock, Theo. F. Baugh, and Jessee Holliday.

Lady Bryan Stock.—This "lady" still continues a favorite with the brokers, and has many admirers and advocates. No great excitement will take place in stock until after they obtain the result from their rock now crushing.

Failure.—We are sorry to announce the failure of Messrs. D. C. Williams & Co., "Stock Brokers," Montgomery street. Their liabilities are, we learn, not very large. Ill luck seems to follow this firm, for they have been obliged to suspend payment twice, to our knowledge, within the past year or so. We doubt not they will soon adjust their affairs and resume business again.

Summary of Mining News.

El Dorado.—A quantity of picked quartz was recently crushed from the Blue Bank Lead on Webber creek, which paid at the rate of $25,500 to the ton. The company have 100 tons of rock, of extraordinary richness at the mouth of their tunnel. Persons desirous of examining the rock will have no occasion to use magnifying glasses.

Placer.—The Folsom *Telegraph* says that two new ledges have recently been discovered in the neighborhood of Rock Springs, which assay nearly $200 in gold and silver. The discoverers are two old miners named Clifford and James.

Nevada.—The editorial correspondence of the *Irish News* furnishes the following interesting facts with regard to the two leading gold mines in California, which are located in Grass Valley: The Allison Ranch gold mine is on the left bank of Wolf creek, about three miles south of the town. The present proprietors were the original discoverers, in 1855, viz: Messrs. Colbert, Daniels, Fahay, Stanton, and the brothers Donahue. A few months after they discovered the mine they offered to sell for $1,000, but could not get a purchaser. Shortly after, they crushed 18 tons, and it yielded $6,000; and again 60 tons produced $23,000. They then erected their mill and machinery. Since then it has yielded nearly two millions of dollars, and yet it gives no signs of exhaustation. It is managed with economy and skill under the superintendence of Phillip Galloway, Esq. This mine has now in its employ over 200 men in its various departments. Around the mill is quite a small town, with boarding houses, hotels etc. The shafts to this mine are now nearly 500 feet deep. The Rocky Bar or Massachusetts Hill mine is the most extensive in the vicinity of Grass Valley. At present it employs nearly 300 men. It was lying idle for two years in consequence of the claim adjoining it, the Mount Hope, being in litigation, as one of the main shafts of the Mount Hope Company was necessary to be used by the Massachusetts Company for the effective working of their mine. Within two or three months past, this hindrance was removed, and the mine is now worked, yielding a rich reward to the labor and skill applied to it. Messrs. Watt, Connolly and O'Keefe are proprietors of this mine. New machinery and mill gearing to the amount of $40,000 has been added to the mill of this company.

The last mentioned mine will compare favorably in richness with the Allison Ranch, and either may be looked upon as equal in richness to any ground of equal extent in Washoe.

Sierra.—The *Mountain Messenger* says that the Mountaineer company, at Howland Flat, took out last week $2,500, for 26 hour's washing, and have from $12,000 to $15,000 of the same kind of dirt in their dump shed. Hibernia claim is paying well, and have at the lowest figure $30,000 worth of dirt out and ready for washing. A correspondent of the same paper, writing from the Middle Fork of the Yuba, says more work is being done in that section than was anticipated. Several companies have opened claims in the river banks, and found very good pay where the ground was supposed to be worthless. The claim of Reipe & Co. is paying half an ounce a day to the hand; that of the Land Pirate about the same. The Sierra *Democrat* says that the Young America Mining Company have recently completed a tunnel which opens up a bed of auriferous gravel hitherto untouched, and which appearances strongly indicate is extensive, underlying the ridge between Sawmill Flat and Wet Ravine. Should this prove to be the case, this discovery is among the most important made in the county for years past. The Young America boys have great faith in the permanency and extent of the diggings, and are putting their claims in shape for prosecuting work on a big scale.

Shasta.—The *Courier* says that a new ledge of gold-bearing quartz has been discovered on Clear creek, about three miles from Whiskytown, which is pronounced decidedly rich. The exact whereabouts of the ledge has not yet been revealed, as the discoverers feel safe in its hidden locality, and are not yet ready to "locate." The Excelsior Company are progressing rapidly with their tunnel. The first snow storm of the season commenced at this place on the 29th.

Tehama.—The Red Bluff *Independent* says that the Pittsburg copper mines are creating quite a stir in that town. The rock of the Killinger Company assays $117 per ton. Other companies are not far behind. They are nearly all busy at work, and good things are expected in the Spring. There are good prospects of machinery soon being put up in that district. Quite a number of citizens of Sacramento and San Francisco are interested.

Siskiyou.—The miners in this county are discovering new leads. The Yreka *Journal* of January 27th says that new leads of silver and gold-bearing rock have lately been discovered in different portions of this county, which apparently promise great richness. Last week, the Lucre lead, on Empire creek, a small tributary of the Klamath, below the mouth of Humbug creek, was discovered, and bids fair to excel in richness the richest in Washoe. If miners would prospect and work California mines as perseveringly as they do Washoe, we should soon be able to prove conclusively that the silver mines of California are well worthy the attention of capitalists.

The Coast Range.—A gentleman who has recently been prospecting in the Coast Range, in Mendocino and Lake counties, informs the Folsom *Telegraph* that it is a region of wonderful mineral richness, it seeming to him one vast bed of mineral composed of cinnabar, copper, silver and gold. The grizzly however, now holds undisputed sway there, twenty having been seen in a single day. Other varieties of game are also abundant, supposed to have been driven thither from settled portions of the State.

Tulare.—The reports of important discoveries in the vicinity of Visalia, are attracting considerable attention. The *Delta* of January 28th, says that the citizens of that place have been much excited for the past three weeks over the reported discovery of gold, silver and copper leads in the foothills and spurs of the Sierra east of the town. "Quite a number of claims have been taken up, and probably 150 men are at present on the ground, either hunting leads or digging into those already discovered. Many specimens of gold and silver ore have been shown us, which are very rich, especially the latter. Of copper ore we are no judge, but others assure us that the indications are very good. The silver leads range from three to thirty feet in thickness. A large load of the gold and silver rock has been brought into town which assays very rich, especially the latter, which assays $200 to the ton." We expect soon to be placed in possession of the facts in relation to these reported discoveries, by a gentleman fully competent to judge of their merits.

Los Angeles.—Encouraging reports of mining discoveries are continually coming in from Los Angeles. What promises to be an important copper discovery has been made within twelve miles of the city.

Tuolumne.—The *Courier* states that a ledge of gold bearing quartz was recently discovered near Columbia, which showed much gold in the croppings. It was estimated that sixty or seventy thousand dollars was in sight, upon the surface. It was accidently discovered by a party who were hunting for cattle.

Important Mining Discovery.—James Say, the discoverer of the now famous Desert District, near Virginia City, is said to have discovered, some three weeks since, a still richer district, a few miles to the northeast of the Desert. The Virginia *Union* says that Mr. S. gives it as his opinion that it is richer than even Gold Hill or Virginia City. The specimens which he brings in are exceedingly rich, in the form of black sulphurets. The district has been christened Sebastopol. It is located twelve miles east of Truckee river, and seven from Hot Springs.

Powder.—Over 7,000 kegs of blasting powder arrived in this port on Wednesday, but the price is still held up to $10 per keg. This arrival, in connection with several large invoices now on the way, ought to relieve all stringency in the powder market.

We would suggest to our Stockton correspondent that he should put his "specs" on, and look a little closer to the paragraph he criticises. We printed "6.20" and not "620." There is a wide difference between the two amounts.

AN EXTRAORDINARY WINTER.

The small amount of rain that has fallen thus far the present season, is without a parallel since the advent of the gold-diggers on this coast, and constitutes a matter of serious apprehension among farmers and much discouragement among placer miners. Considerable speculation was indulged in during the early part of the season as to the probable character of the winter, and we believe the general impression was that we were to have a mild one. Old settlers asserted that a dry fall was always followed by a mild winter. The disinclination of the water-fowl to move south as freely as usual, was also given as an infallible sign to the same effect. The result thus far has fully proved the correctness of these predictions.

The placer miners and farmers, everywhere, are making doleful complaints on account of the drouth, and with reason, for the operations of the miners in many localities are greatly impeded, while cattle are dying by thousands, especially in the extreme southern portions of the State. The Los Angeles *Star*, as late as January 23d, says that it is truly melancholy to notice the great number of cattle that have died lately on different ranches throughout that country. It is admitted that, on some, one-half of the stock have perished from hunger, and there is great apprehension that many more will yet be lost if a favorable rain should not shortly come. In passing over the plains, many of the cattle appear like skeletons, and seem unable to move far from the springs and water courses, from which they receive nearly all that prolongs life.

Farther up in the Tulare Valley the suffering among the cattle has not been so severe, although much loss has been entailed. Within the past five weeks enough rain has fallen to secure the safety of cattle for another year. Reports from Livermore and San Joaquin Valleys are to the same effect. In the San José Valley, according to the *Patriot* of January 27th, farming prospects are exceedingly gloomy. The extraordinary drouth continues. But two falls of rain of any account have occurred during the season—one in November, and one about the last of December, since which time dry, cloudless weather has been experienced. The present has been pronounced the dryest season for many years. The *Patriot* predicts that there will yet be much suffering in that region unless the rains come soon and copiously. The central and northern portions of the State have been more favored with the aqueous element, but still in quantities quite insufficient for the actual need of the country. The extraordinary mildness and beauty of the winter, in this city, is the remark and wonder of all. The Sacramento river, we believe, was never before at so low a stage, at this season of the year, since steam navigation was first attempted upon its waters.

The mildness of the winter has extended into and over the Sierra and quite to the foot of the Rocky Mountains. The reports from Washoe are to the effect that so beautiful and mild a winter has never before been witnessed there by even that ubiquitous biped, the "oldest inhabitant." In that region, a mild and dry winter is a blessing, as it affords increased facilities for carrying on the class of mining which constitutes almost the only employment there. A lively spring and summer in Washoe is predicted in consequence. The same comparative degree of mildness appears to exist throughout Esmeralda, Humboldt and Reese River.

From the Plains, to the east of the Rocky Mountains, we hear quite a different story, to the effect that so early and severe a winter has never before been known. The same reports reach us from the Atlantic seaboard. The unusual detention of the overland mails in the vicinity of the Mississippi and Missouri rivers, and the blocking up of railways, in one instance for ten days, fully attests the truth of these reports.

Mechanical Department.

THE SAWMILL.

How few realize what the sawmill has done for society, the value of its services, or the important part which it plays in every forward movement of human progress. It is an invention almost cotemporaneous with the infancy of civilization, and is an invariable accompaniment of man in all his pioneer enterprises. The axe, alone, precedes it in the construction of the rude cabin or log hut of the pioneer; but not till the sawmill is introduced do we find the conveniences and comforts of a home; not till then do framed buildings and villages arise. The sawmill has been most aptly termed "civilization's pioneer machine." It is the precursor of the carpenter, wheelwright and turner, the painter, the joiner, and legions of other callings and professions. It preceded the gold-seekers of California, and, in fact, was the direct means of making known to the world the existence of the precious metals in the mountains of the Pacific slope. It follows close upon the tracks of our adventurous miners, and our magnificent forests are fast melting away at its approach. Already we have some 225 of these indispensable machines among us, which turn out at an aggregate of not less than 120,000,000 feet of lumber annually.

Where the sawmill is not, progress is unknown; where its presence is most frequent, we generally behold a corresponding degree of activity and advancement. The comparative absence of this machine throughout the equatorial latitudes of our continent may be looked upon as an important cause of the lack of progressive civilization in those otherwise highly favored regions.

Surrounded as we are in California, and throughout the entire Pacific slope, with the most magnificent forests to be found upon the earth, may we not, with reason, look to this as one of the chief sources of our future prosperity. By aid of the numerous railroads in operation and prospect, these vast stores of lumber may soon be delivered at almost any desirable point, and will become available for shipment to the numerous points on the Pacific where lumber is wanting, and where the demand for which must increase in exact proportion with their progress in civilization and arts.

It is difficult to fix the time of the introduction of the sawmill. About the earliest account we have of it, is its employment in the mountains of Sweden and Norway, where it is spoken of by an English writer as an engine "very necessary to be in a great Towne or Forrest, to cut Timber, whether into planks or otherwise."

The ancients used marble to an enormous extent, and, according to Ausonius, mills driven by water power were employed in sawing it into slabs. But we have no record of any similar process being applied to timber. The axe appears to have been the chief instrument employed in early times for shaping building materials prepared from wood.

The modern sawmill, driven by steam, is a very different machine from that set up in the primeval forests of the north of Europe, or even by the Pilgrims, who first erected their dwellings on the borders of the Atlantic States. We have by us a view of one of those early sawmills, set up in Virginia, upwards of two centuries ago, which at some future time we propose to place in the hands of the engraver for illustration in the columns of the Press.

Copper Coating Armor Plates.—Since our remarks, two weeks since, upon the Copper coating of armor plates, etc., we have noticed the following paragraph in the *London Mining Journal*, with reference to experiments now in progress in that direction:—"It is stated that the target ship in Porchester Bay has been placed in dock for the purpose of removing from under her quarters and landing the two armor-plates which some three months since were coated with copper by the Walenn electro-alkaline process. A report of the condition of the plates will now be prepared by the dockyard officials, and forwarded to the Admiralty for their information. The important electro-metallurgical experiment was entertained and carried out by the Admiralty in the fullest and most liberal sense, both as regards the inventor and the application of his principle; but serious fears are entertained that the principle of the invention has utterly failed in the test of its submission in salt water."

Railway Gradients.—The power possessed by locomotives to ascend steep gradients has been demonstrated in a most remarkable manner within the past two or three years. The experiment on a Chilean railroad, which was made some eighteen months since, greatly astonished engineers everywhere. But a still more remarkable development of the surmounting power of the locomotive has quite recently been promulgated by the engineers of the Bhore Ghaut Incline on the great India Railroad. The incline attains at one long lift the great height of 1,832 feet, which is the greatest elevation attained by any railway incline. It is fifteen and a half miles long, and the average gradient consequently is 1 to 45:39. The success of such experiments as those above noticed should forever set at rest all cavils against the engineering difficulties to be encountered in the construction of a practicable railroad over the Sierra Nevada.

Case-Hardening Iron.—A new method of case-hardening iron has been patented in Germany by M. Martignoni. The process consists in rubbing the surface of the iron, while at a red heat, with the following composition: 5 parts of cow hoof, reduced to fine shavings; 5 parts of quinquina; 2-5 parts of common sea salt; 1-5 parts of salt-peter; and 10 parts of coarse black soap. This mixture is formed into a paste, and applied by a roller, by which it is smeared. The iron is subsequently tempered in cold water.

Economy of Fuel—Smelting Iron.—A correspondent of the *United States Railroad and Mining Register* communicates a long article on the waste of coal used for smelting iron, and ridicules the construction of the common smelting furnaces, asserting that they are worthy of the days of Tubal Cain, who lived five thousand years ago. He states that two-and-a-half tuns of coal are employed to reduce one tun of iron from the ore, while one tun ought to be sufficient if properly managed. He suggests that a saving of fuel might be effected on the principles applied in the use of the blow-pipe.

Safety Valves Dangerous.—The London *Engineer*, speaking of boiler appliances, says: "It is dangerous to open a large safety valve suddenly." The general idea of safety connected with the use of a safety valve is that when the steam in the boiler attains to a certain fixed rate of pressure, it shall open suddenly and allow the steam to escape so as to reduce the dangerous pressure. It is known to engineers that if a safety valve is raised suddenly, under great pressure, the water is liable to foam and flow out with the steam, in the same manner that soda-water or spruce beer in a bottle, charged with carbonic acid gas, will be carried out with the gas when the cork is drawn. It is upon this principle seemingly that Clark has founded his projectile theory of boiler explosions. No other danger is entertained by engineers in raising the safety valve suddenly than the escape of water from the boiler.

Hydraulic Water Power seems to be fast coming into practical use. As further evidence of success in this direction, we notice that the printing press of the New Haven *Register* is run by water power, supplied by an inch perforation of the street main; and after a long trial the contrivance is pronounced a perfect success.

The longest and oldest chain bridge in the world is said to be at Kingtung, in China, where it forms a perfect road from the top of one lofty mountain to the top of another.

THE NEW STOCK AND EXCHANGE BOARD.

The interior of this building wears an air of pleasantness and bids fair to become a favorite place for those who deal in "feet." The salesroom is 50 by 33 feet; the dome for lighting the building is 20 feet high. At the extreme end of the room are the desks for the President, Secretary, and Caller. In the center of the room, or forum, is the place where brokers congregate, which is separated by a railing on either side for the lobby members.

Mr. Wallace, the projector of this Board, is indefatigable in his endeavors to carry out in full this novel arrangement for the sale of stocks, so happily conceived by him, and we trust he will meet with a liberal patronage.

With the view of an early extension of this establishment, which he thinks will soon become necessary, he has secured a place in the rear of the present room, 35 by 34 feet, so that when the present place becomes too contracted, out goes the wall, and in comes more "feet." We give below the names of those who have taken offices in this building:

No. 1—Howard & Sanchez, and H. S. Saunders, brokers.
No. 2—Geo. Johnson & Co., together with the Office of the Exchange.
No. 3—H. S. Homans, notary.
No. 4—D. H. Mitchell, E. H. Shaw, and George W. Paget, brokers.
No. 5—Wm. Ward Battles, broker.
No. 6—Messrs. Paugh, Sturtevant & Stewart, brokers.
No. 7—W. D. Robertson and E. H. Wilson, brokers.
No. 8—Thos. Ogg Shaw, D. M Hosmer, and J. W. Myrick, brokers.
No. 9—Wm. Thompson, broker.
No. 10—F. J. Hughes and C. H. Watson, brokers.
No. 11—J. Fitch, S. Green, Chas. Littler, and John Minturn, brokers.
No. 12—J. de Sta Marina and Henry Harris,
No. 14—J. M. Duff & Co., brokers.

Exposure of a Fraud upon Science.—A San Francisco evening paper, not long since, presented a collocation of the evidences tending to show the existence of man in California prior to the historic period. A brief review of the said article in the Press of the 30th of January naturally suggests a duty which should animate every true lover of science to place such evidences upon their proper basis. The statement that "an ancient skillet, made of lava stone and hard as iron, circular in form, and with a spout and three legs, was found in washing out a deep claim at Forest Hill," had its visible representation in the very utensil itself, at an exhibition of the State Agricultural Society, a few years ago. It showed the evident marks of modern ingenuity (not Indian-hew-it-eh), and had apparently been easily chiseled out of porous basalt, which rock is nowhere found beneath or mingled with the gravel deposits, but always capping them. Therefore, the skillet, or its original form, could not have been found buried at any great depth, or had a very ancient existence. It pleased me to afterwards learn that the owner was meeting with poor success in his attempts to dispose of the *ancient* relic. M.

A Wasuoe Nabob.—The Virginia *Enterprise*, in describing the palatial mansion of Sandy Bowers, lately built on the shores of Lake Tahoe, says the bill for furnishing material and fitting up this fine mansion will amount to over $10,000 for upholster work alone. The curtains for the parlor windows will cost $600 each, and there are six windows in all—$3,600 for the curtains of one room! There are in all thirty-six windows to be furnished with curtains—but all the curtains are not, of course, so costly as those of the parlor. The whole cost of the house, when fully fitted up, will be something over $250,000; but a man whose income is $70,000 per month, or nearly one million per annum, can very well afford to fit up a house in any style to suit his taste.

Patent Department.

Apparatus for Operating a Gun Carriage—*A California Invention.*—S. T. Ashley, of this city, has obtained letters patent for an improved apparatus for the above mentioned purpose, wherein he claims the gearing together of the front and back traverse wheels by means of a system of gearing, in such a manner that the power is applied to produce the motion of both sets of wheels simultaneously, by a power applied through a crank shaft or its equivalent at or near the end of the chasis, or in such position as may be most convenient, substantially as and for the purposes specified.

A New Amalgamator.—J. B. Attwater, of Chicago, Illinois, has invented and patented an Amalgamator, which consists of the employment or use of one or more reciprocating frames, provided with arms or leaders having bars or their equivalent attached to form elevators, in connection with a tray or box, all arranged to operate in the manner substantially as and for the purpose set forth in his specifications.

An Apparatus for Washing Ores.—Philip Scheuevman, of Hancock, Michigan, has obtained a patent for a machine for washing ores, in which water is forced up through screens on which the ore or pulp is discharged from the stamps. We should judge this invention to be one calculated more particularly for washing or concentrating ores of copper.

Apparatus for Generating Carbonic Acid.—Letters patent have been granted to M. Auguste Morel, Brussells, Engineer, for the invention of "improvements in apparatus for generating carbonic acid." This improvement relates to an improved generator of carbonic acid which is self-supplying and regulates itself at a constant pressure without any supervision, and producing a regular flow of gas without the aid of a gas holder or regulator. The invention is capable of very numerous applications; first, it may be applied as a small meter in which the compressed gas is substituted for steam or compressed air. Secondly, the gas so obtained may be applied in baths, also for decanting and raising alcoholic and fermentable liquids to any distance or hight free from pernicious contact with air; and lastly, for saturating all kinds of liquids with gas varying in amount and pressure; in this case the gas should be introduced at the bottom of the reservoir to be saturated, whence it traverses the liquids in bubbles so as to change without agitating it; it may also be used for raising the liquid to a hight in proportion to the initial pressure. By the simple addition of a two-way cock, one communicating with the gas and the other with the liquid, the pipes may always be kept empty.

Fire Bars.—Letters patent have been granted to Mr. Daniel Mybrea, Lancaster, England, for the invention of "improvements in fire bars or furnace grids." The cross bars are made of a waved or corrugated shape, with a groove on the upper surface to catch or collect the ashes from the fuel, which ashes, being a non-conductor of heat, preserves the bars from being soon consumed or burned, and also prevents the coals from clinkering. The side bars and cross bars are cast together, so as to form a frame-work or grid for the bottom of the furnace, and the side bars or frame are made either straight or corrugated, but in either case a groove is made on the ashes. By means of this plan the bars can be made much lighter than the usual form, while ensuring economy of fuel and metal, and prevent the clinkering of the coals. The corrugated surface of the bars, by presenting the greatest amount of surface to the action of the atmosphere, keeps them cool.

A New kind of friction matches has been invented which will not ignite unless rubbed against a surface that has been peculiarly prepared with chemicals. The invention is to provide against accidental ignition.

First Dividend.—The Jefferson Gold Mining Company, at Brown's Valley, declared its first dividend on the 2d instant, of $10 to the foot. This is considered by the stockholders a very satisfactory result. The company has recently erected a fine mill at an expense of $25,000.

The Mining and Scientific Press Patent Agency,

OFFICE, 57, GOVERNMENT HOUSE, SAN FRANCISCO.

Information About Obtaining Patents.

The Patent Law Amendment Act, of March 4th 1861, and March 3d 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent?" A positive answer to this question is only to be had by presenting a formal application for patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the Mining and Scientific Press. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Preliminary Examinations.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search, made at the U. S. Patent Office, Washington, through the medium of our associate in that city, to ascertain whether among all the patents and models there stored, any invention can be found which is similar in character to that of the applicant. On the completion of this special search we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollars. This search, though it involves the expense just named, will usually prove satisfactory. If the same device has been before patented, the time and expense of constructing models, preparing documents, etc., will in most cases be saved; if the invention has been in part patented, the applicant will be enable to modify his claims and expectations accordingly. Many other obvious advantages attending the Preliminary Examination; although the strictest search does not always enable the applicant to know positively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publication; or some other person has been previously rejected on an analagous device; or some other invention for a similar purpose, but partially resembles the applicant's in its construction; or the Government makes an unjust or uncommon decision. Against none of these contingencies does the Preliminary Examination provide; it will, however, generally inform the applicant whether an improvement similar to his and used for the same purpose has ever been patented or not in this country.

Persons desiring the Preliminary examination are requested to remit the fee ($10), and furnish us with a sketch and description of the invention.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian, Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of governments that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues.—If the application is rejected we cause a thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have excess to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client. For this service we make no charge. If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The laws requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: Dewey & Co., Mining and Scientific Press, rooms 56 and 57, Government House, corner of Sansome and Washington Streets, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail.—The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due, and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued, the applicant will be notified to remit the last installment of the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Return of Models.

Under the new law, if the applicants case has been rejected he is entitled to withdraw his model from the Patent Office.

This law applies to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expense.

Application for Patents, Designs, Trade-Marks, Labells, etc.

Under the new law patents may be taken out for any new form of any article, also for tools, patterns, castings, machine-frames, stove-plates, borders, fringes, all new designs for printing, weaving or stamping upon silks, calicoes, carpets, oil-cloth, prints, paper-hangings, and other articles. Trade-marks, labels, envelopes, boxes and bottles for goods, may also be patented; likewise all works of art, including prints, paintings, busts, statues, bas-relief, or compositions in alto, or basso relievo, new dies, impressions, ornaments to be placed upon any article of manufacture, architectural work, etc.

Our facilities for the prompt preparation and securing of patents are of the most extensive character and our charges are very moderate.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the tariff of fees established by law:

On every application for a design, for 3 years and six months...	$10
On every application for a design, for seven years.....	15
On every application for a design, for fourteen years.....	30
On every caveat.....	10
On every application for a patent.....	15
On issuing each original patent.....	20
On filing a disclaimer.....	10
On every application for a re-issue.....	30
On every additional patent granted on a re-issue.....	30
On every application for an extension.....	50
On the grant of every extension.....	50
On appeal to the Commissioner from Examiners-in-chief.....	20
On every appeal to the Judges of Circuit Court, D. C.....	25

Infringements.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunction from the Court, to an arrest of or prohibition from the employment of his machinery, shop, works, factory and men in production of the article.

In addition to injunction the infringer is liable to be mulcted in treble the amount of damages awarded by the jury. The maker, the workman, the seller, and the purchaser, if a user, are all liable either collectively or individually.

Having access to all the patents, models, public records, drawings and other documents pertaining to the Patent Office, we are prepared to make examinations and give opinions upon all infringement questions, advise as to the scope and ground covered by patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Appeals.

In rejected and other cases, the new law provides for an appeal from the Examiner-in-chief to the Commissioner in person, on the payment of a fee of twenty dollars. A further appeal may be taken from the decision of the Commissioner to the U. S. Court, of the District of Columbia. These appeals are heard by any of the Judges before whom the applicant elects to bring the case. No Jury. All the papers, models, etc., are sent by the Commissioner to the Judge, who then reviews the case, and either sustains or reverses the Commissioner's decision.

The party taking the appeal pays an additional fee of twenty-five dollars. The Judge appoints a day of hearing. The applicant can appear in person or by counsel to state his case and file a written argument. Five days are allowed the opponent to put in an answer, and a similar period to the appelant for a closing reply.

Many important cases are brought before the Judges on appeal and the decisions of the Commissioner are not unfrequently reversed.

We have had successful experience in conducting these appeals, and our services are rendered on moderate terms.

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Mining and Scientific Press Office, Government House, corner Sansome and Washington streets, San Francisco.

Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

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AMERICAN AND FOREIGN PATENTS.—Letters Patent for Inventors can be secured in the United States and foreign countries through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past year.

FAVORABLE TO INVENTORS.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the MINING AND SCIENTIFIC PRESS, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

San Francisco:
Saturday Morning, February 13, 1864.

"STATE POLYTECHNIC SCHOOL."

The Board of Commissioners appointed by the last Legislature to report "upon the feasibility of establishing a State University, embracing an Agricultural College, a School of Mines, and a Museum," have reported in favor of uniting the "University Fund" of the State with the fund to be derived from the Congressional land donation for a college of agriculture and art, the funds to be consolidated for the establishment of a State institution, to be styled the "State Polytechnic School." They also recommend, and with good reason, San Francisco for the the location of the same. It is further recommended that another Board be appointed by the present Legislature to report a plan of a college or school to the next Legislature, said Board to consist of the Governor, Surveyor-General, Superintendent of Public Instruction, and the State Geologist, with three other persons, to be named, one by the State Agricultural Society, one by the Mechanics' Institute, and one by the Academy of Natural Sciences.

The recommendation of the present board is a most excellent one; the only regret is that the plan which may be submitted by the new Board recommended, cannot be acted upon at an earlier day. The name suggested—"State Polytechnic School"—is, of all others, the most appropriate for a school of the character proposed. The term "Polytechnic" is derived from two Greek words, signifying *many* and *art*—comprehending many arts; and is most peculiarly applicable to a school in which many branches of art or science are taught. The suggestion that this school should be established upon an independent basis should in no wise be departed from. We want a purely California school, entirely independent of any existing institution, and having no connection whatever with any classical course of instruction.

No State in the world would derive more benefit from a school of the above description than California, and should we be so fortunate as to succeed in establishing one upon a sound and permanent basis there is good reason for believing the California School of Mines, or "Polytechnic School," as we would prefer to call it, would soon be able to produce graduates, who would lose nothing in comparison with those of the most celebrated institutions of similar character in Europe.

California—and in employing this term we refer to the entire Pacific slope—needs a school peculiarly her own, and suited to her anomalous position as a mining State in its early stage of development. We need, and should be able to avail ourselves, of the accumulated experience of older mining localities; but it is more important, for the present, that the attention of California miners should be particularly directed to the conditions of a new country, to a more general knowledge of minerals, their various combinations and their accidental positions upon and near the surface, and to the opening and working of new mines. The general drift of instruction in English and continental schools has more particular refereuce to old and pretty thoroughly prospected localities, and to the working of mines at a great depth.

A mining and agricultural school may very properly be united in one institution, as the studies in pure chemistry, geology, mineralogy, physics and mechanics, are required by both, and to the same degree. It would be quite as easy for a lecturer to instruct a large number of pupils as a smaller number; indeed, according to all ordinary experience in teaching, it is far more pleasant and agreeable to speak to sixty pupils than to twenty. Agriculture and mining is nothing less than an application of the above studies. Practice in the chemical laboratory would be almost precisely the same for both classes of students. In order that a mining engineer may be able to take up any rock and ascertain its constituent elements, he must be acquainted with analytical chemistry, and the amalgamator must also be possessed of the same knowledge before he can understandingly work his ores. A thorough chemical knowledge is indispensable to both of these individuals. The agriculturist also requires a thorough knowledge of chemistry, in all its branches, both organic and inorganic; but *he* would naturally apply his knowledge to the analysis of soils and minerals, and sometimes to the different productions of his soil. Surveying would also be another branch, which would be taught in common to both classes of students and by the same teacher. In short, by the combination to which we have alluded, we see a great saving in expenditure, and no valid objections. We propose, in future numbers, to throw out some hints as to the proper management of a school of this description, and to lay before our readers the course of instruction pursued in similar schools in Europe.

The Late E. B. Goddard, Esq.

In the decease of Mr. Goddard, which took place at Oakland on the morning of the 8th instant, of disease of the heart, this city has lost one of its most useful and substantial citizens. Mr. Goddard was one of the pioneers of California, having arrived in this city, from New York, in 1849. He soon became interested in quartz mining in Mariposa county, in which position he continued two years. In 1854, he purchased the Pacific Foundry, in this city, which was started in 1851 by Mr. Hinckley, and has continued at its head from that time up to the period of his death. He has ever been held in the highest esteem by his employees, and, in his death, the mechanics of San Francisco have lost a worthy and valued friend.

Mr. Goddard was not educated as a mechanic, although he possessed a fine mechanical genius, which added to his extensive experience in both the use and manufacture of machinery, rendered his judgment upon such matters exceedingly sound and practical. As a business man, he occupied a high and honorable position, and his efforts in that direction have met with most abundant success. In the private walks of life he was especially beloved, and has ever been regarded by all who knew him as a man of unusual excellence and worth. At the time of his death he was a member of the Congregational Church at Oakland. His remains were followed to the grave by a large concourse of the citizens of Oakland and San Francisco. In the procession were the trustees, faculty and students of the College of California, of which he himself had been a trustee, also the members of the Young Ladies Seminary at Oakland, and the entire body of the employees of the Pacific Iron Works of this city.

MINING SHARE MARKET.

The Mining Share Market has been very much depressed during the past week, although, with the exception of two or three leading shares, stocks have generally improved. Of the twenty-four leading shares which have been active before the Board during the past week, we note ten which have manifested material improvement, seven have fully maintained their last previous quotations, and seven only have encountered a decline. Ophir has improved, while Gould & Curry has materially declined. Baltimore American, North American, Lady Bryan, Bajazette, Nevada (J. G.), Baltic, Daney and Overman are among those that have improved. The total transactions of the week foot up $982,967, a falling off of $538,929 over the amount of last week.

Ophir has been less dealt in, but at rates somewhat improved. We quote sales of 219 shares at from $1,500@1,540—buyer 30 days.

Gould & Curry has been but little dealt in, and at declining rates. It opened at a decline of $130 from previous quotations, and subsequently met with a still further decline, closing at $4,800.

Savage has met with a material decline, dropping suddenly from $3,350 to $3,250, again rallying, but closing in yesterday's Board at $3,075.

North Potosi remains at about last quotations, but with a large decline in amount of business. An order was recently issued by Judge North restraining this company from any further operations on their works near the Savage ground.

Chollar is quiet. We notice but two small transactions at declining rates.

Lady Bryan has been less sought after the past week, but at rates somewhat improved. We hear of outside transactions to a considerable extent. No especial movement may be expected in this stock until after the large amount of rock recently taken out of the mine has been crushed, and its actual value ascertained.

Baltimore American has been largely sought after, generally at improved rates. We quote sales of 794 shares at $40@52, closing weak.

North American is still largely enquired for, and at rates still further improved.

Overman has met with a material improvement, having advanced from $375 to 475. This advance, we presume, is attributable to the reported consolidation of this company with the North American and Sweezy. The particulars of this arrangement have not yet been made public.

Uncle Sam may be quoted at $525; a decline from last week, attributable to the above mentioned combination.

Baltic has advanced from $150, on Saturday last, to $190 on Tuesday, but subsequently declined to $170, at which figure it may now be quoted firm.

Nevada (Justice Ground) has met with a very important advance. It improved from $115, on Saturday, to $125, on Monday, and 175@180, buyer 30, yesterday. This stock is in decided request.

Badjazette has been more in request at improved rates. We quote sales of 104 shares at $31@36—closing at $32.

Burnside has met with increased business but at slightly declining rates—508 shares at $14@18, buyer 30 days.

Sierra Nevada has been offered at declining rates, having dropped gradually from $105 to 90.

Burning Moscow has still further declined. It met with sales on Saturday last at $100@105, from which it has steadily declined to about $80. We quote yesterday's sales—81 shares from $77½@85. This stock which has for so long a time been a prominent feature in the market is now but little enquired after.

Yellow Jacket. We notice but two transactions within the past week, one share at $900, and four, at yesterday's Board, at $875.

Lafayette has improved its amount of business, but at fluctuating rates. We quote sales of 362 shares

at $14@26; closing at the former figure, with a firm market.

Potosi is but little enquired for at $1,300.

Daney had sellers on Saturday last at $80. On Tuesday it suddenly advanced from $110@126, but declined on Wednesday to $110 and 100, and closed before yesterday's Board at $95, with little demand. We have heard no reason assigned for this important fluctuation.

Caledonia Tunnel has met with an increased business at about last weeks quotations. This stock met with a slight improvement early in the week but subsequently declined to previous rates. We quote at $28 firm.

Harmon has still further declined and may now be quoted at $14 @ 15.

We quote Desert at $22½; Meredith at 35; Chas. Cany at 10; Pride of the West at 85; Knickerbocker at 21; Mt. Davidson at 4; Santa Rosa at 5½; Melones at 50; Empire and Golden Age at 33; Mount Hope at 8; Sedgewick at 8; El Dorado at 52; Meredith at 30 @ 35; Seneca at 20; Burgess at 15; Buckeye at 13; Lee, G. H., at 5; Central America at 5; Shelton at 8; Grey Eagle at 20; Golden Swan at 30; Victor Hugo at 15; Armagoza (clear stock) 6; Rhode Island 7; St. George 5; Spanish, No. 2, 30; Am. Pioneer 5½; Christiana 9½; Bullion, G. H., 65.

Real Del Monte still continues the chief excitement of the market. We note a large increase of sales over last week at greatly declining rates. Accounts from the mine are quite contradictory. We refer to extended remarks upon this mine and its management, which will be found elsewhere in our columns, to-day. This stock declined to $70 on Thursday, but rallied again yesterday, and closed at $81 @ 91 b. 30.

We quote Wide West at $30; Utah 23; Willow Springs 2; Silver Hill 12½; Coso 6; Greenville 22; Antelope firm at 230; Mount Bullion 2.

Of Owens River Stocks we quote Metropolitan at $5; East Lynn opened at $4½, and closed at 8.

From Reese District we quote Union at $4½.

From Humboldt we quote Cuba at $4; and Ben Franklin $5.

Reese River—Eclipse 12½; Omnibus at *par*; Belmont, 10½. Amador is rapidly coming into favor, the last quotations being $180 bid $250 asked.

Copper—We quote Baker at $140; Wellington at $1; Napoleon at $65, an advance of $15 over previous qoutations; Josephine $6@7.

The Aquilla and her Cargo.—Work on the Aquilla is progressing as well as could be expected—slow, but sure. The cargo is being drawn, piece by piece, from its watery bed. One man only, can work below, encased in submarine armor. Each piece, as it comes up is thoroughly washed with fresh water from a hydrant, and deposited in a lighter moored along side. The material is being taken, as fast as raised, to a point just south of the foot of Third street, where the polished portion, and brass work are thoroughly cleaned and oiled. The armor plates are here subjected to a second washing, and then to a coat of paint. The cargo, thus far, with the exception of some cabin furniture, for the Comanche, does not appear to be injured, at all, from its submersion in salt water. As yet no portion of the heavy machinery has been raised—nothing heavier than plates of iron weighing from two or three hundred, to perhaps one thousand pounds. The Comanche will be put up near the point where it is being landed, and built in a position parallel with the direction of Third street. There will be no difficulty in launching her from this point, as has been intimated; although a little dredging may be required to allow her to pass into deep water. The convenience or the locality selected for her construction will more than counterbalance the cost of any dredging—if any—that may be required. The locality designed is fast assuming an appearance of bustle and activity, and is daily visited by great numbers of our citizens and strangers visiting the city. The Third street cars will take visitors to within a few rods of the point.

WASHOE STOCK MARKET.

Collated from the Regular Reports of the Virginia Daily Union, to Latest Dates.

Last week was the liviest of the season. Sales in the regular Washoe Stock and Exchange Board, as well as in the Gold Hill Stock Board, and in outside boards, designated as the Pi-Ute, People's Board of Brokers, etc., if summed up entire, would show that never, since last summer, has there been as many transactions in mining stocks, in the same length of time, as during last week. Spring is evidently close at hand and, although the influx of capital over the mountains has not yet commenced, enough has been done to show the confidence that residents have in recent locations, and the expectations of their final richness. It will be observed that most of the transactions are confined to stocks of an inferior value, sales in first class claims of an old standing, such as the Gould & Curry, Ophir, etc., having taken place only in San Francisco.

Virginia District.—For Burning Moscow there has been a good deal of bantering during the week, with but few sales. Honduras attracted some attention. North Potosi was in considerable demand, but a report being prevalent to the end that it had run into the works of the Savage, owners are holding on to await the result. Seneca declined somewhat during the week. St. George, having shown some fine looking rock, has been in request.

Gold Hill District.—The transactions in this district were immense, being confined to American Flat chiefly. There was but little done in outside districts, the attention of dealers at this season of the year being chiefly confined to stocks at home. The Whitman, in Indian Springs District, attracted considerable notice, however, and Lady Bryan is steadily but slowly on the advance, having sold at the close at $65. Reese River stocks are not asked for, though Desert District excites some interest.

Gold Hill District.—Amador, $3 asked. Branch Mint, $12 bid. Baltic, 170 b; 200 asked. Belle Vernon, 10 b; 10 a. Caledonia Tunnel, 22 b; 27.50 a. Crœsus, 45 b; 65 a. Original Crœsus, 15 a. Crown Point Ravine, 12 b; 18 a. Frankell, 7 b; 13 a. Golden Horn, 5 a. Gilmore, 15 a. Golden City, 1 b; 2.50 a. Hawkeye, Original, 80 a. Hawkeye No. 1, 75 b. Jim McClellan, 3 b. Justice, 115 b; 135 a. Kentucky, 4 b; 6 a. Knickerbocker, 30 a. Leon, 18 a. Louisville, 25 a. Mary Ann, 70 a. Mechanics, 5 a. North American, 130 b; 130 a. New Oregon, 15 b, 15 a; ditto, 14 b, 14 a; ditto, 16 b, 16 a. Napoleon, 18 a. Nevada, 16 a. Oneoto, 30 a. Rock Island, 17 b; 17 a. Sweezy, 200 a. South Midas, 10 b. San Francisco, 2.50 b, Vesuvius, 11 b; 20 a. Vulean, 6 a. Mineral Point, 10 a. Schiler, 10 b; 20 a. Pony Express, 2.50 b; 10 a. Pond, 10 b. Central Park, 26 a. Rappahannock, 10 asked. Mansfield, 1.50 b; 3.50 a. Arizona, 7 b; 15 a. Beleher, 12.50 a. Batimore American, 36 b. Cherokee, 1.50 a. Colorado, 6 b. Coppers, 7 b. Clinton & Hubbs, 13.50 b. Dardanelle, 1 b; 10 a. Excelsior, 18 b. Golden Swan, 60 a. Hawkeye, Original, 75 a. Keystone, 25 b; 45 a. Michigan, 20 b; 25 a. Tontine, 17 b; 25 a. Uncle Sam, 510 b. Union, 10 a. United American, 10 b; 20 a. Victor Hugo No. 2, 20 a. Yolo, 8.50 b. Silver Veil, 2.50 b; 12 a. Uncle Sam, Senior, 15 b; 20 a. Lee & Weston, 4 a. Lafayette, 18 b. Alpha, 1,200 a. Bullion, 75 a. Combined Effort, 50 a. Consolidated Company, 49 a. Eureka, 8 b; 25 a. Golden State, 10 a. Jenny Liud, 4 b. Stevenson Kehoe, 7 b; 20 a. Victor Hugo No. 2, 20 a. Benjamin, 15 a. Sam Pateh, 8 a. Palo Alto 4 b; 6 a. Polhemus, 7.50 a. N. Light & S. South, 5 b; 10 a. Continental, 1 b; 20 a. Pontiac, 5 a. Globe, 4 b; 12 a. Princess, 12 a. Randolph, 25 b. Ohio, 2 b; 4 a. Native American, 5 a. Texas, 4 b; 10 a. Ironsides, 5 a. Grant, 1 b. Cuba, 4 a. Carson, 2 b; 5 a. Diligent, 3 b. John A. Logan, 6 b. Minerva, 275 b. McMeans & Williams, 5½ b; 7½ a. Naragansett, 2 b. Overman, 375 b; 450 a. Sandy Bowers, 4 a. Utah, 1 b. Union, 15 a. Abell & Keys, 2 b; 15 a. Argo, 1 b. Astor. 10 b. Burke & McLellan, 7 b; 14.50 a. Contraband, 6 b; 8 a. Effingham, 4.50 and 6 b; 6 a. Gold Hill & Virginia Divide, 16 b; 28 a. Hawkeye, 100 a. Independent, 25 a. Jewett & Sheppard. 4 b; 5 a. Jackson, 15 b; 30 a. Miantonomah, 8 b; 12.50 a. Massilon, 2 b; 7 a. Mayflower 8 a. Republic, 15 a. Superior, 280 b; 400 a. Yellow Jacket, 850 b; 1,050 a. Lee, 8 a. Pilot, 5 a. Wall Street, 4½ b; 8 a. Roanoake, 8 a.

Virginia District.—Allen, $25 bid; $45 asked. Burning Moscow, 80 b. Bajazet & Golden Era, 40 a. Harrison, V. I., 25 bid; 35 a. Honduras, 8 b; 10 a. La Crosse. 15 b; 25 a. Moss, 21 b. New Orleans, 8 a. Osceola, 8 b; 14 a. Orleans Flat, 10 b. Sutro, 10 a. Sierra Nevada, 108 b; 120 a. Utah, 120 a. Milton, 35 b; 45 a. North Potosi, 45 b; 80 a. Seneca, 10 bid. Santa Rosa, 20 a. Irwin, 11 b; 20 a. El Dorado, 35 b. Ponce de Leon, 2 b. Wm. Penn, 11 a. Virginia Express, 1 b; 2.50 a. Beach & Paxton, 100 a. Birdsall, 25 a. Grass Valley, 9 a. Santa Fee, 19 a. Kenosha, 10 a. Mount Davidson, 5 a. Pride of Washoe, 15 a. Grass Valley & Napoleon, 6 b; 6 a. Washington, 5 b.

Flowery District.—Desert, 30 a. International 15 a. Lady Bryan, 70 a. Uncle Sam, 2½ b; 5 a. Atwill, 10 a. Lady Bryan No. 2, 1½ b; 15 a. Harrison, 2½ b.

Argentine District.—North Ophir, 4½ b; 6½ a. Sheltou, 4 b; 7 a.

Devil's Gate District.—Daney, 70 b. Pride of the West, 50 b. Grey Eagle, 8 a. Kansas, 7 a.

Palmyra District.—Rock Point, 12 a. Rappahanock, 40 a. Star, 10 a.

Indian Springs District.—Jackson, 25 b. Lyon 5 b; 15 a. Whitman, 140 b.

Desert District.—Lady Rachel, 15 a. Desert Ophir, 15 a.

Cortez District.—Cortez, 15 a.

Alpine District.—Geo. Law, 7 b; 7 a.

SALES REPORTED SINCE OUR LAST ISSUE

Ten shares Belle Vernon at $10; 10 shares North Americean at 130; 20 shares New Oregon at 15; 5 shares ditto at 14: 10 shares ditto at 16; 3 shares Rock Island at 17; 20 shares Russian at 2; 10 shares Oneoto at 12.50; 30 shares Napoleon at 12; 20 ditto at 12; 10 shares North Ophir at 3; 5 shares Sierra Nevada at 110; 3 shares Rock Island at 17; 5 shares Central Park at 20; 10 shares Bertrand at 4; 20 Randolph at 35; 10 shares Justice at 125; 50 shares Vulean at 3; 20 shares Keystone at 25; 5 shares New Oregon at 14.50; 20 shares Houduras at 9; 5 shares Belle Vernon at 9; 55 shares Frankell at 12; 5 shares Golden Horn at 5.50; 100 Golden City at 2; 10 shares North Americen at 120; 20 shares Pony Express at 5; 10 shares Lady Bryan at 65; 5 shares New Oregon at 12; 5 shares ditto at 12; 5 shares ditto at 12.50; 5 shares ditto at 12; 5 shares Baltic at 160; 5 shares North American at 125, seller 3 days; 5 ditto at 125; 5 ditto at 125; 25 shares Astor at 10; 5 shares Crœsus at 52.50; 30 shares Clinton & Hobbs at 12; 110 shares Napoleon at 15; 10 shares Utah at 4.00; 25 ditto at 3; 20 feet Rock Island at 22, buyer 30 days; 10 feet Frankell at 8; 10 feet Roek Island at 18; 10 feet ditto at 18.50; 10 feet ditto at 19; 20 feet ditto at 22, buyer 30 days; 7 feet ditto at 18.50; 10 feet Honduras at 7; 5 feet United American at 12; 20 feet New Oregon at 12; 10 feet Golden City at 2.50; 5 feet United American at 13; 10 feet Roek Island at 18.50; 10 feet ditto at 18.50; 5 feet Golden City at 2.50; 10 feet Belle Vernon at 7; 5 feet Rock Island at 18; 2 feet ditto at 18; 5 feet ditto at 18.50; 10 feet Ohio at 3.50; 10 feet ditto at 4; Ten feet Central Park at 17; 10 feet ditto at 16; 5 feet Frankell at 9; 10 feet Belle Vernon at 8; 20 feet New Oregon at 13; 20 feet ditto at 12; 5 feet ditto at 14, 10 feet ditto at 12; 5 feet ditto at 12; 9 feet Texas at 5; 10 feet ditto at 4.50; 10 ft. Lafayette at 16; 50 feet Lady Esther at 4; 20 feet North Ophir at 8; 28½ feet ditto at 7; 10 feet Grizzly at 6; 50 feet Golden City at 2; 10 feet Cherokeo at 1; 10 feet Lady Bryan at 65, buyer 10 days; 5 Clinton & Hobbs at 14; 90 feet Frankell at 9; 20 New Oregon at 13; 20 feet Jenny Lind at 6; 20 Effingham at 4.50; 20 feet ditto at 6; 25 feet Lafayette at 15; 20 feet ditto at 20, buyer 30 days; 10 feet Combined Effort at 8; 20 feet Napoleon at 13; 10 feet Sandy Bowers at 50c.; 5 shares Justice at 120; 5 shares New Oregon at 12; 15 shares Napoleon at 13; 5 feet New Oregon at 13; 20 feet Napoleon at 14.50; 100 feet ditto at 14; 10 feet Frankell at 9.50; 10 feet Roek Island at 18; 5 feet New Oregon at 13; 25 feet Bertrand at 6; 10 American Flat Tunnel Co. at 25; 5 Golden City at 3; 20 Kossuth at 3; 20 Rock Island at 19; 10 Rock Island at 22, b. 30; 15 Rock Island at 18.50; 25 South Baltie at 4; 5 Napoleon at 15; 10 Napoleon 14.50; 5 Napoleon at 13.50; 20 Jenny Lind at 5; 10 Gilmore at 6; 10 Golden City at 2.50; 20 Central Park at 18; 10 Belle Vernon at 7; 20 feet Honduras at 9; 5 feet Baltic at 175; 3½ feet North Ophir at 4.50; 10 feet ditto at 5; 50 feet Sandy Bowers at 41c; 15 feet Belle Vernou at 4.50; 5 feet Burning Moscow at 130, buyer 60 days; 10 feet Baltie at 169, buyer 10 days; 25 feet Amador at 2; 5 Napoleon at 14. 50 shares Ætna at 10 per shre; 25 shares Richmond at 8; 20 shares Hardy at 12.50; 20 shrs Oriental No. 1, at 7.50; 35 Baltimore at 5.

"Is there Silver this side of the Mountains?"

Mr. Editor:—This is a question of much importance to the miners of California, and, indeed, to all Californians, and one which demands more than a passing notice. I call your attention to this matter in order that you may aid in checking the growing injury done to the mining interest of our State, by groundless assertions that no silver exists, in paying quantities, on this side of the Sierra Nevada; that it is useless to look for it, because the general appearance of the country is entirely different from Washoe or Reese River; that if we wish to become interested in silver mining we must "pull up stakes" and remove to "Sage Brush Valley," or some other similar locality in a far off desert. Then stories are told of the richness of the mines near Austin, where there is plenty of wood and water—they might add fever too—and that now is the time to buy stock.

Such is the absurd talk of most parties who return from the other side—Savans, learned in the art of mining and in the knowledge of minerals—and what is the result? Why, the depreciation of mining stock on this side, and the rush of money, capitalists and miners to the other side. When rock such as the Melones, for instance, is found on the other side, and is brought over and exhibited in San Francisco, do you suppose that shares could be bought at the ruling prices of Melones? No, and why? Simply because "distance lends enchantment to the view." Your Calaveras rock is too near home to be of any value.

Another result of this stampede eastward, and I will close, leaving it for some of your able contributors to answer: "Is there silver this side of the mountains?" A few weeks ago I communicated to the "Press" the discovery by some Greek miners, of a quartz vein, near the Melones, containing gold, silver and copper in considerable quantities, and assaying from $302 to $414 per ton, and an assay from an inferior specimen from that vein, made by Mr. Smith, of the South Park Quartz Mill, in your city, produced $84.50 in silver, $12.40 in gold and 5 per cent. copper, to the ton, and this from a well defined vein four feet wide; yet the owners of feet in that claim cannot get three dollars per foot for it; or, I might say, cannot sell it at any price. Thus you see the miner here might as well lay down his pick and shovel, because prospecting wont pay, however successful he may be in finding good rock. He reasons thus with himself: "I have not capital to work it, neither can I sell ground to procure capital; what then, can I do with my lead—valuable as I know it to be? I must either abandon it, and seek for an inferior one on the other side of the mountains, or turn my hand to some other business." Now, Mr. Editor, this is precisely the fix which those Greek miners are in. They have, what would be termed in Reese River, a very rich vein, and have located a claim 3600 feet in length, by 200 in width, with no danger of litigation with adverse claimants. This vein appears to run parallel with the Melones, and like the latter, intersects the Morgan Lead in Carson Hill. R. W. D.

Mokelumne Hill, Jan. 25, 1864.

Our correspondent asks us to urge the claims of our home mines upon the attention of capitalists. We are constantly doing so; and have moreover placed competent traveling correspondents in the field, who are doing much, by their letters, to disburse the public mind of the erroneous impressions which have been formed with regard to the comparative value of our home and distant mines. The letters which we are publishing from Tuolumne and Calaveras counties, contain the most unmistakable evidence of the existence of silver in that vicinity. When the current of public opinion has fairly set in in any direction, it is of little use to attempt to to stop it suddenly. The only way to effect a change is to keep quietly at work presenting facts, until the rush gradually exhausts itself, and attention is more equalized among our different miners.

Our mineral fields spread out over half the width of the continent. There are good mines everywhere within their limits—good silver mines, in both the eastern and western slope of the Sierras. Capitalists will soon find that mines, of equal yield, are most valuable nearest to commercial centres, where supplies are most available, and where labor is consequently cheaper. Increased attention is already being paid to the development of our "home mines." It will ever be our endeavor to faithfully represent *all* the interests of our widely extended mining fields. We aim to make the Mining and Scientific Press the representative of the entire Pacific slope. We know no locality other than the general one already indicated. Our great aim is to impart such information as shall be of interest to our miners at large. Our columns are open and free to all, and correspondents are restricted only to brevity and truth.

A late number of the Calaveras *Times*, in speaking of the Blue Mountain silver mines, in that county, says there are now recorded in that district alone, 114 companies working for silver, many of which are developing mineral, and in some instances of extraordinary richness. Those Co's having developed their veins, have arrived at most encouraging results. A feeling of confidence pervades the holders, sales of shares only being made when necessity demands it. Most of the mines in this district are held by original locators, whose capital as a general thing consists in their bone, muscle and strong will.

The specimens which we noticed two weeks ago, as handed us by Mr. McGowan, from Murphy's Camp, were equal to anything we have ever seen from Reese River. The Butte Bar ledge, Plumas county, on the Middle Fork of the Feather River, discovered about one year since, has turned out rich working tests, and developed what appears to be a valuable ledge, full eight feet thick and traceable for miles. The ore from the Butte Bar lode bears a striking resemblance to that found at Murphy's, and it assays $156 per ton in silver.

Questions Answered.—Our correspondent from Pilot Knob asks us many questions, most of which are difficult to answer, except upon personal inspection of the mine. We don't often answer any questions through the columns of the Press, unless they are of general interest. Some of the questions put by our correspondent are liable to this objection. Talc, fluor spar and iron pyrites are each, and particularly all combined, very good indications of copper. When we speak of a "hanging wall," we refer simply to the *upper wall* of the vein—be it *hard or soft*. Your surface indications were probably a green carbonate of copper. You must find your walls by drifting *across* your vein; if you have a north and south vein, drift east and west. Your pay rock will most probably come in on or near your foot wall. You have not gone deep enough. Go down, at least to water, then drift across your vein, and see what you find. You ought to go down 100 feet before drifting. Go to water at all events. You will probably find copper sulphurets both in your fluor spar and in the iron pyrites or mundic, at the depth indicated. Your spar, which you say you have lost, you will most probably find again by drifting toward your hanging or upper wall.

Mountain Roads.—Strenuous efforts are being made to open a good wagon road through the Yuba Gap, the present season. The Beekwith Pass is also attracting considerable attention. The Big Tree Road Company appears to be in a highly prosperous condition. They expended $58,000 and constructed 25½ miles of new road, besides putting in good condition 17 miles of old road. The route is now completed to within 3½ miles of Silver Mountain, and the company, when they suspended work for the winter, had $5,712 worth of tools, teams, etc., and $25,000 in county bonds. They will commence taking toll, on that portion completed, with the opening of the next summer's travel. This road is greatly needed, as indeed are all the roads now used and in contemplation over the Sierra Nevada.

Quicksilver.—The Virginia City *Bulletin* says 600,000 pounds of quicksilver is consumed in the working process by the mills of Nevada Territory.

The Publication of Mining Notices in the Mining & Scientific Press obtains for them a more general circulation, among parties directly interested, (in this city and throughout the mining districts of the coast, than can be secured through any other medium. State laws require their publication but once a week, and Secretaries and Trustees can make a material saving of costs to stockholders by ordering their advertisements inserted in the journal most properly entitled to receive their patronage—the weekly Mining and Scientific Press.

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☞ Deeds, etc., for record in Humboldt County, Nevada Territory, received and forwarded. 1-tf

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REFERENCES with permission to Messrs. F. Parrot & Co., R. B. Swain, Esq., Messrs. Alsop & Co., Messrs. Donahoe, Ralston & Co. 1

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REFERENCES:—Prof. J. D. Whitney, State Geologist, San Francisco; Alsop & Co., San Francisco; Suther & Church, San Francisco; John Parrott, San Francisco; D. O. Mills, Sacramento. 1tf

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No quicksilver lies between the surfaces to be ground, but at the circumference and centre of the pan where the metal must pass through it as the pulp circulates.

A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.
sep21

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Stock Reports.

SAN FRANCISCO STOCK BOARDS.

Sales by the San Francisco Stock and Exchange Board, San Francisco Board of Brokers, and the Pacific Board of Brokers.

[Revised for the Mining and Scientific Press.]

SATURDAY, FEBRUARY 6, 1864.

S. F. STOCK AND EXCHANGE BOARD.

North Potosi, 20 shares at $62½ per share; 35 at 60, buyer 30 days; 5 at 57½, b 30; 10 at 59, b 30; 35 at 55; 25 at 57½, b 30; 20 at 56; 10 at 52½; 10 at 55, b 30; 24 at 55; 24 at 55½; 10 at 52½; 10 at 55, b 30; 10 at 53, seller 30; 20 at 52½, s 30.
Meredith, 10 shares at $32½ per share; 40 at 35.
Burnside, 20 shares at $18 per share; 10, at 17.
Pride of the West, 5 shares at $85 per share, b 30.
Bajazet, 4 shares at $32 per share.
Wide West, 5 shares at $30 per share.
Real del Monte, 10, at 120; 20, at 125, b 30; 10, at 124; 10, at 122½; 10, at 124, b 30; 5, at 120; 5, at 117½; 30, at 115, regular way; 20, at 115; 10, at 120, b 30.
Utah, 5, at 23.
Baltimore American 10, at 45, b 30; 125, at 45; 10, at 44, s 30; 35, at 46½.
Sierra Nevada, 30, at 105; 10, at 105, r w.
North American, 5, at 120; 10 at 125, b 30; 10, at 122½; 20, at 125, r w.
Lady Bryan, 100 shares at $62 per share; 10, at 63.
Burning Moscow, 25 shares at $101 per share.
Nevada, Justice Ground, 20 shares at $115 per share.
Melones, 10 shares at $50 per share.
Yellow Jacket, 1 share at $900 per share.
Lafayette, G. H., 20, shares at $22¾ per share; 20, at 26 b 30; 30, at 25
Baltic, 10 shares at $150 per share.
Uncle Sam, 5 shares at $600 per share, b 30.
Potosi, 2 shares at $1300 per foot.
Daney, 20 shares at $80 per foot, b 15.

AFTERNOON SESSION.

El Dorado, 10 sbares at $54 per share, b 30.
Meredith, Consolidated, 5 shares at $35 per share; 10 at 30.
Real del Monte, 15 shares at $112½ per share; 10 at 117, b 15; 45 at 115; 40 at 114, s 30; 50 at 115, s 30; 5 at 116; 20 at 122½, b 30; 62 at 117; 9 at 117½; 20 at 115, s 30; 15 at 118.
Melones, 10 shares at $50 per share; 5 at 60, b 60; 10 at 52½, b 30.
Caledonia Tunnel, 5 shares at $28½ per share.
Baltimore American, 5 shares at $45 per share; 40 at 45; 20 at 46½; 20 at 47; 10 at 47½; 5 at 48; 10 at 50, b 20; 10 at 49; 5 at 52, b 30; 50 at 50; 10 at 45, s 30; 25 at 52 b 20; 5 at 51 b 30; 65 at 48; 5 at 47.
North American, 10 shares at $135 per share; 20 at 135, b 30; 5 at 129; 20 at 125; 5 at 130, b 30; 10 at 120.
Lafayette, G. H., 10 shares at $25 per share, b 30; 10 at 23.
Lady Bryan, 50 shares at $62½ per share; 10 at 63; 20 at 64½, b 30; 10 at 65, b 30; 10 at 60, s 30.
Nevada, Justice Ground, 15 shares at $115 per share.
Burnside, 30 shares at $16 per share.
North Potosi, 15 shares at $59 per share.
Sierra Nevada, 5 shares at $100 per share; 5 at 102, b 30.
Bajazet, 10 shares at $31 per share.

S. F. BOARD OF BROKERS.

MORNING SESSION—OPEN BOARD.

Baltimore American, 5 shares at $40 per share; 10, at 41.
Silver Hill, 10 shares at $15 per share.
Baltic, H., 10 shares at $23½ per share; 10, at 3.
Coso, 20 shares at $5 per share.

PACIFIC BOARD OF BROKERS.

Burnside, 70 shares at $16½ per share, b 30; 20 at 15; 20 at 16 b 30.
Burning Moscow, 5 shares at $105 per share, b 10.
North Potosi, 7 shares at $59 per share, b 30.
Willow Springs, 110 shares at $1¼ per share.
Mount Davidson, 35 shares at $4 per share.
Burning Moscow, 5 shares at $100 per share.
Desert, 20 shares at $22½ per share.
Knickerbocker, 10 shares at $20 per share.
Baltimore American, 10 shares at $46 per share; 10 at 45; 5 at 44¼ s 4.
London, Sis., 25 shares at $8 per share.
Lady Bryan, 5 shares at $63 per share; 20 at 63; 10 at 63 r w.
North American, 5 shares at $125 per share, r w.
Burnside, 9 shares at $16 per share; 90 at 15.
Buckeye, 10 shares at $13¼ per share; 10 at 13¾.
Empire and Golden Age, 10 shares at $33 per share.
Real del Monte, 5 shares at $130 per share, b 30, n d; 10 at 118; 10 at 125 b 30.

Sales by the S. F. Stock and Exchange Board,.....	$150,143 50
Sales by the S. F. Board of Brokers,.....	867 50
Sales by the Pacific Board of Brokers,.....	11,851 50
Total sales of the day, by both Boards,.....	162,862 50

MONDAY, FEBRUARY 8, 1864.

S. F. STOCK AND EXCHANGE BOARD.

Sierra Nevada, 45 shares at $95 per share; 10 at 100, b 30.
Real del Monte, 15 shares at $140 per share; 15 at 112½; 50 at 105; 10 at 109, s 30; 10 at 105, b 30; 10 at 103; 30 at 100; 30 at 95, s 30; 5 at 100, b 15; 10 at 98, s 30; 15 at 99; 10 at 98, r w; 25 at 100 r w; 15 at 105, b 30; 5 at 100½.
Uncle Sam, 9 shares at $525 per share.
Mount Hope, G. H., at $9½ per share; 10 at 10.
Lafayette, G. H., at $23 per share; 10 at 22.
North America, 10 shares at $125, b 30; 10 at 120.
Baltic, 10 shares at $172½ per share; 10 at 182½, b 30.
Caledonia Tunnel, 34 shares at $20 per share.
Baltimore America, 10 shares at $46 per share; 25 at 45.
North Potosi, 10 shares at $50 per share, s 30; 120 at 50; 10 at 55 b 30; 20 at 52½; 5 at 51.
Seneca, 15 shares at $15 per share.
Lady Bryan, 50 shares at $64 per share, b 30; 3 at 60; 25 at 61.
Bajazet, 10 shares at $32½ per share.
Union, R. D., 50 shares at $4¼ per share.

AFTERNOON SESSION.

Bajazet, 5 shares at $33 per share; 30 at 35, s 4.
North Potosi, 40 shares at $55 per share, b 30; 20 at 50, r w; 40 at 52½ b 30; 5 at 49; 5 at 48; 5 at 47½.
Real del Monte, 5 shares at $95 per share; 20 at 92½; 5 at 90 r w; 130 at 90; 90 at 90, s 30; 30 at 91 s 30.
North American, 35 shares at $115 per share; 10 at 115, r w; 15 at 112½; 10 at 120, b 30; 10 at 113.
Baltimore American, 27 shares at $43 per share; 10 at 42½, s 30; 20 at 42, s 30.
Nevada, Justice Ground, 10 shares at $125 per share.
Lafayette, G. H., 17½ shares at $21 per share.
Union, J. D., 20 shares at $1¾ per share.
Caledonia Tunnel, 15 shares at $31 per share; 6 at 30.
Seneca, 5 shares at $20 per share, b 60.
Baltic, 10 shares at $185 per share, b 30.
Sierra Nevada, at $100 per share, b 30.

S. F. BOARD OF BROKERS.

Harmon, 10 shares at $16 per share; 50 at 12.
Lafayette, G. H., 5 shares at $23 per share.
Charles Cany, 10 shares at $9 per share, b 30.
Coso, 10 shares at $5 per share.
Rhode Island, 20 shares at $7 per share.
Wellington, (copper,) 20 shares at $1 per share,
Baltic, H., 50 shares at $3¼ per share.

PACIFIC BOARD OF BROKERS.

Charles Cany, 10 shares at $8 per share.
Burnside, 12 shares at $15¼ per share; 32 at 15½; 30 at 16½, b 30.
Burning Moscow, 5 shares at $100 per share; 5 at 100, b 6.
Mt. Davidson, 15 shares at $4 per share.
Union, Russ, 10 shares at $4½ per share.
Harmon, El Dorado, 5 shares at $15½; 3 at 15; 15 at 14; 20 at 12, s 30.
Daney, 5 shares at $80 per share.
Real del Monte, 10 shares at $105 per share, b 30, n d; 10 at 107, b 30, n d; 5 at 107½, b 30; 10 at 101; 10 at 107½, b 30, n d; 5 at 100.
Baltimore American, 17 shares at $43 per share; 10 at 42½, s 30.
Lady Bryan, 10 shares at $63½, b 8; 20 at 63.
Mount Hope, 10 shares at $9 per share; 10 at 9¼.
Burgess, 20 shares at $15 per share.
Coso, 105 shares at $3½ per share.
Central America, 20 shares at $5 per share.
Cuba, 5 feet at $4 per foot.

Sales by the S. F. Stock and Exchange Board,.....	$117,075 50
Sales by the S. F. Board of Brokers,.....	1,360 50
Sales by the Pacific Board of Brokers,.....	13,545 50
Total sales of the day, of all Boards,.....	129,981 50

TUESDAY, FEBRUARY 9.

S. F. STOCK AND EXCHANGE BOARD.

North Potosi, 10 shares at $42 per share, s 30; 5 at 32½.
El Dorado, 2 shares at $45 per share.
Mount Davidson Tunnel, 24 shares at $33¼ per share; 20 at 4.
Union, R. D., 20 shares at $4¼ per share; 20 at 4.
Mount Hope, G. H., 70 shares at $10 per share, b 30.
Real del Monte, 39 shares at 90 per share; 5 at 87½; 31 at 85; 10 at 85, s 30; 10 at 95, s 4; 63 at 84; 5 at 87½, b 30.
North American, 85 shares at $110 per share; 20 at 105, s 30; 10 at 109; 20 at 106, s 30; 10 at 115, b 30; 10 at 110.
Baltic, 10 shares at $185 per share, b 30; 15 at 190, b 30; 5 at 187½, b 30; 10 at 185, b 30; 10 at 186, b 30.
Shelton, 25 shares at $8 per share.
Sierra Nevada, 5 shares at $95 per share, b 30; 20 at 92, b 10.
Lady Bryan, 10 shares at $63 per share, b 30; 10 at 61.
Bajazet, 5 shares at $35 per share; 20 at 36, s 5.
Lafayette, G. H., 5 shares at $18 per share, b 30; 85 at 15.
Baltimore American, 5 shares at $41 per share.
Wide West, 12 shares at $32 per share; 5 at 33.
Caledonia Tunnel, 10 at $32 per share, b 30; 10 at 30½; 10 at 32½, b 30.
Golden Swan, 5 shares at $30 per share.
Greenville, E., 16 shares at $21 per share.
Burning Moscow, 5 shares at $100 per share.
Ophir, 72 shares at $1530 per foot, b 30; 12 at 1500, s 30; 36 at 1540, b 30.
Daney, 40 shares at $110 per foot; 14 at 115; 20 at 125, b 30.
Savage, 1 share at $3250 per foot.
Gould & Curry, 4 shares at $4820 per foot.

AFTERNOON SESSION.

North American, 10 shares at $130 per share; 20 at 135, b 30; 5 at 130, r w; 30 at 130, b 30; 10 at 132½, s 30; 10 at 140, b 30; 10 at 130.
Real del Monte, 20 shares at $84 per share; 10 at 84, r w; 10 at 80; 5 at 77½; 15 at 75; 10 at 72½; 30 at 70; 10 at 72½, b 3; 30 at 71, b 3; 40 at 72½, b 10; 20 at 70; 40 at 71; 15 at 72, b 3.
Baltimore American, 5 shares at $42 per share; 25 at 45, b 30.
Charles Cany, 41 shares at $10 per share.
Bajazet, 5 shares at $35 per share.
North Potosi, 5 shares at $40 per share; 10 at 44, b 30; 30 at 42½.
Overman, 10 shares at $375 per share.
Antelope, 5 shares at $230 per share.
Buckeye, 10 shares at $13 per share; 10 at 12.
Baltic, 10 shares at $182½ per share.
Daney, 20 shares at $119 per foot; 240 at 125, b 30; 4 at 118.
Chollar, 64 shares at $350 per foot.

PACIFIC BOARD OF BROKERS.

Burnside, 10 shares at $15¾ per share.
Harmon, 20 shares at $13 per share, b 30; 50 at 12¾.
Real del Monte, 5 shares at $83 per share.
Union, Russ, 20 shares at $4¼.
Mount Hope, 150 shares at $10 per share, b 30.
Baker, (copper,) 10 shares at $140 per share.
Amarzoza, (clear stock) 5 shares at $6.
North Potosi, 5 shares at $42½ per share.

Sales by the S. F. Stock and Exchange Board,.....	$369,669 50
Sales by the Pacific Board of Brokers,.....	4,696 50
Total sales of the day, by all Boards,.....	374,366 00

WEDNESDAY, FEBRUARY 10.

S. F. STOCK AND EXCHANGE BOARD.

Sierra Nevada, 10 at $95 per share, b 5.
Charles Cany, 8 at $10 per share.
Burnside, 15 at $16 per share, b 30.
Harmon, E., 5 shares at $15 per share.
Wide West, 2 shares at $32 per share.
Silver Hill, 120 shares at $11 per share.
Baltimore American, 30 shares at $45 per share; 40 at 44½; 30 at 42, s 30.
Overman, 5 at $475 per share.
Real del Monte, 10 shares at $72 per share; 10 at 71; 20 at 70; 30 at 70, b 10; 9 at 68; 15 at 69.
Lady Bryan, 50 shares at $60 per share; 5 at 59; 10 at 59, b 30; 10 at 58½ b 20; 100 at 57½, s 30; 15 at 58½, r w; 10 at 58; 40 at 56, s 30; 10 at 58, b 30.
Burning Moscow, 10 at $90 per share, b 30.
Lafayette, 60 shares at $14 per share.
North Potosi, 5 shares at 44 per share; 10 at 47½, b 30; 10 at 46, b 30.
North American, 10 shar s at 130 per share, b 5; 20 at $132½, b 30; 10 at 122½, r w; 20 at 120.
Willow Springs, 50 shares at $2 per share.
Ophir, 12 shares at $1520 per share, r w.
Daney, 20 shares at $110 per share.
Chollar, 4 shares at $340 per share.

AFTERNOON SESSION.

Wide West, 5 shares at $29 per share; 5 at 28.
Baltic, 10 shares at $180 per share, b 20; 10 at 180, b 15; 10 at 170, s 30.
Lady Bryan, 5 shares at $55 per share; 10 at 57½, b 30.
Real del Monte, 150 shares at $70 per share.
Silver Hill, 10 shares at $10¾ per share; 10 at 11.
North American, 10 shares at $115 per share.
Burning Moscow, 10 shares at $90 per share; 15 at 90, r w.
Spanish No. 2, 5 shares at $30 per share.
Savage, 1 share at $3200 per share.
Daney, 12 shares at $100 per foot.
Ophir, 12 shares at $1530 per foot, b 30; 12 at 1540, b 30.

PACIFIC BOARD OF BROKERS.

Burnside, 10 shares at $16 per share, b 30; 20 at 15½, b 30.
Caledonia Tunnel, 10 shares at $31 per share.
Lady Bryan, 10 shares at $62½, b 30; 10 at 60, b 10; 5 at 52; 10 at 55, s 30; 10 at 53; 10 at 56, b 30.
Harmon, 50 shares at $13 per share, s 30; 5 at 14, s 30;
Burnside, 20 shares at $15½, b 30; 10 at 16, b 30; 40 at 14.
Charles Cany, 40 shares at $10 per share.
American Pioneer, 9 shares at $5½ per share.
Christiana, 10 shares at $9½ per share.
Belmont, R. R., 35 shares at $7 per share,
Wide West, 10 shares at $28 per share; 10 at 27.
Real del Monte, 5 shares at $70 per share.

Sales by the S. F. Stock and Exchange Board,.....	$122,766 50
Sales by the Pacific Board of Brokers,.....	7,324 50
Total sales of the day by all Boards,.....	130,091 00

THURSDAY, FEBRUARY 11.

S. F. STOCK AND EXCHANGE BOARD.

Sierra Nevada, 15 shares at $80 per share; 10 at 90, b 30.
Charles Cany, 30 shares at $9½ per share.
Wide West, 10 shares at $30 per share.
Real del Monte, 45 shares at $70 per share; 10 at 71, b 3; 10 at 71; 5 at 73, b 10; 45 at 72½.
North Potosi, 10 shares at $45 per share; 10 at 50, b 30; 5 at 47.
Lady Bryan, 12 shares at $55 per share; 60 at 54 per share; 25 at 56, b 30; 20 at 55, s 30; 20 at 55½; 10 at 55, s 30; 10 at 54, r w; 10 at 53½ r w.
Knickerbocker, G. H., 50 shares at $20 per share.
Melones, 25 shares at $50 per share.
Bullion, G. H., 45 at $65 per share, b 30.
Lafayette, G. H., 10 shares at $14 per share.
Burnside, 40 shares at $15 per share.
Baltimore American, 10 shares at $43 per share.
North American, 10 shares at $115 per share, s 25; 10 at 116, r w.
Caledonia Tunnel, 32 shares at $28 per share.
Baltic, 5 shares at $170 per share.
Burning Moscow, 3 shares at $90 per share.
Silver Hill, 10 shares at $12 per share.
Ophir, 60 shares at $1500 per foot, r w; 12 at 1500, s 30.
Gould & Curry, 12 shares at $4800 per foot, r w.
Savage, 1 share at $3100 per foot.
Daney, 40 shares at $80 per foot; 20 at 87½; 20 at 85.
Potosi, 2 shares at $1300 per foot.

AFTERNOON SESSION.

Silver Hill, 10 shares at $12 per share.
Victor Hugo, 20 shares at $15 per share.
Lady Bryan, 30 shares at $53 per share; 50 at 54, r w; 10 at 53¾; 5 at 55; 20 at 55, b 30.
Baltic, 10 shares at $170 per share, s 3.
North Potosi, 7 shares at $50 per share.
Baltimore American, 10 shares at $43 per share.
North American, 130 shares at $130 per share; 20 at 130, s 30; 29 at 135.
Real del Monte, 5 shares at $90 per share; 10 at 90, b 30; 5 at 86; 10 at 87½; 10 at 87; 40 at 88.
Uncle Sam, 2 shares at $500 per share.
Bajazet, 5 shares at $36 per share.

PACIFIC BOARD OF BROKERS.

Burnside, 10 shares at $15 per share; 10 at 14¾.
Metropolitan, O. R., 25 shares at $35 per share.
Caledonia Tunnel, 15 shares at $30 per share.
Lady Bryan, 60 shares at $53¼ per share; 30 at 52; 10 at 55½, b 30; 90 at 56, b 30.
East Lynn, 25 shares at $4¼ per share; 10 at 5; 50 at 7.
Coso, 105 shares at $6 per share.
Real del Monte, 10 shares at $74 per share; 15 at 79, b 30; 15 at 75.
Knickerbocker, 5 shares at $21 per share.
Lee, G. H., 20 shares at $5 per share.
Ben Franklin, H., 50 shares at $5 per share, b 30.

Sales by the S. F. Stock and Exchange Board,.....	$ 71,156 00
Sales by the Pacific Board of Brokers	22,720 00
Total sales of the day, by all Boards,.....	93,876 00

FRIDAY, FEBRUARY 12.

S. F. STOCK AND EXCHANGE BOARD.

Pride of the West, 5 shares at $85 per share; 4 at 82½.
Real del Monte, 20 shares at $85 per share; 10 at 82½; 60 at 81; 5 at 85, b 20; 5 at 86, b 30; 10 at 87, b 30; 10 at 84; 10 at 85; 20 at 87; 10 at 86.
Burning Moscow, 1 share at $85 per share; 10 at 80; 15 at 85, b 30.
Greenville, E., 10 shares at $22 per share.
Lady Bryan, 10 shares at $54 per share; 4 at 53½.
Baltic, 20 shares at $120 per share; 30 at 160.
Silver Hill, 10 shares at $12½ per share.
North American, 10 shares at $130 per share, s 30; 30 at 130, s 10.
Josephine, (copper,) 65 shares at $7 per share, b 30.
Nevada, J. G., 20 shares at $180 per share, b 30; 20 at 175, b 30.
Union, R. D., 10 shares at $3½ per share; 16 at 4.
Baltimore American, 34 shares at $41 per share; 10 at 43, s 30.
North Potosi, 10 shares at $50 per share.
Bullion, 5 shares at $65 per share.
Savage, 1 share at $3075 per foot.
Yellow Jacket, 4 shares at $875 per foot.
Daney, 40 shares at $95 per foot.

AFTERNOON SESSION.

Napoleon, (copper) 10 shares at $65 per share.
Burning Moscow, 15 shares at $80 per share; 30 at 77½; 5 at 80, b 30.
Bullion, G. H., 10 shares at $65 per share.
Real del Monte, 45 shares at $84 per share; 10 at 90, b 30; 5 at 83½; 5 at 87½, b 30; 10 at 82; 20 at 80; 20 at 85, b 30.
Baltimore American, 10 shares at $43½ per share.
Chollar, 4 shares at $310 per share.
Spanish, No. 2, 10 shares at $30 per share.
North American, 10 shares at $130 per share; 10 at 125, s 30.
Victor Hugo, 20 shares at $15 per share; 5 at 15.
Uncle Sam, 4 shares at 5½ per share.
Lady Bryan, 90 shares at 54 per share.
St. George (Virginia District) 20 shares at 5 per share.
Knickerbocker, 10 shares at $25 per share.

PACIFIC BOARD OF BROKERS.

Belmont, R. R., 10 shares at $10½ per share.
Caledonia Tunnel, 5 shares at $28 per share.
Santa Rosa, 15 shares at $6 per share; 15 at 5¼.
Mount Hope, 5 shares at $8 per share.
Lady Bryan, 5 shares at $56 per share; 25 at 54.
Sedgwick, 15 shares at $8 per share.
Real del Monte, 25 shares at $90 per share, b 30, a 20; 15 at 27; 10 at 91
Baltimore American, 5 shares at $44 per share; 10 at 42½, s 30
Harmon, 40 shares at $17 per share.
Burning Moscow, 5 shares at $84 per share.
Mount Bullion, R. R., 25 shares at $2 per share.
East Lynn, O. R., 25 shares at $8 per share.
Wide West, 8 shares at $30 per share.
Grey Eagle, 25 shares at $20 per share.
Coso, 23 shares at $6 per share; 10 at 6 12½ per share.
Knickerbocker, 10 shares at $20 per share.
Eclipse, R. R., 5 shares at $12½ per share.

Sales by the S. F. Stock and Exchange Board,..	$ 95,652 50
Sales by the Pacific Board of Brokers,.....	6,138 00
Total sales of the day, by all Boards,.....	101,790 50
Total sales of the week, by all Boards,.....	$ 982,967 50

Gold in New York.

Monday February 8	158⅞ 159
Tuesday " 9	160
Wednesday " 10	160

Legal Tender Notes.

San Francisco, Friday February 12.....65¼ per cent.

Stock Exchange.

The Stock Exchange will be opened on MONDAY, 16th Instant, for the transaction of business.

7v8-tf M. G. ELMORE, Secretary.

STOCK EXCHANGE.

The unparalleled development of the Mineral Resources of the Pacific Slope, and the daily increasing commerce of the city of San Francisco, have rendered a

PUBLIC EXCHANGE,

Conducted on the same fair business principles that characterize similar institutions in Europe and America, an urgent necessity in this city.

The public are therefore informed that a suitable building has been erected, at 612 and 614 Montgomery St., in which will be held Daily Sessions for the sale of Stocks, Bonds, Securities, Specie, etc., under the following Board of Directors, and subject to the following Rules and Regulations:

Board of Directors.

GEORGE W. DART, President.

WALTER SPARROW,	E. H. WILSON,
JOSEPH CLOUGH,	R. O. STURTIVANT,
HENRY WILLIAMS,	D. J. OULLAHAN,
E. PAVALLIER,	EDWARD FLANAGAN,
THOMAS WALLACE,	J. DE STA. MARINA,
M. G. ELMORE,	E. W. LINSLEY.

Rules and Regulations.

1. The business of the Exchange shall be managed by a Board of thirteen Directors, to be elected annually, and to whom application for membership shall be made. Any question or issue raised touching contracts, made at the Board, their validity or meaning, shall be referred to a committee of five, for investigation and final decision.

2. The Sessions of the Board shall be from 12 to 1 P. M., and from 3 to 4 P. M., each day, Sundays excepted.

3. Only members of the Exchange shall offer Stocks, etc., for sale.

4. The public may bid upon and purchase any Stocks, Bonds, Securities, Specie, etc., that may be offered for sale.

5. Buyers of Stock who are not members must either make a deposit of Ten (10) per cent. of the purchase money at the time of sale, or have their contracts endorsed by a member.

6. Should any member or party refuse to fulfill a contract entered into by him at a Session of the Board, he shall thereafter be debarred from all privileges of the Exchange, at least until he shall have specially performed such contract.

Commissions on Sales

Of United States, State, County and City Bonds; Railroad, Steamboat, Telegraph, Gas, and Water Stocks; Certificates, Bills of Exchange, Treasury Notes, Specie, etc., one-half of one per cent.

Commission on Mining Shares:

Sale at $1 up to $10.....	$0 25 per foot
Sale at $10 up to $25.....	50 per foot
Sale at $25 up to $50.....	1 00 per foot
Sale at $50 up to $100.....	1 50 per foot
Sale at $100 up to $200.....	2 50 per foot
Sale at $200 up to $400.....	5 00 per foot
Sale at $400 up to $600.....	6 00 per foot
Sale at $600 up to $800.....	7 50 per foot

From $800 to $3,000 per foot, one per cent. Anything above $3,000 per foot, three-quarters of one per cent. 7v8-tf

Record of New Incoporations.

The following is a record of the names of the companies, location of the claims, amount of capital stock and the names of the Trustees mentioned in the articles of incorporation, filed in the County Clerk's office, in this city, since our last report:—

JOHN HANCOCK G. & S. M. Co.—Amador District, Lander county, N. T.; one hundred thousand dollars. Trustees: Geo. H. Johnson, Henry Carleton, Jr., H. M. Newhall, T. S. Mitchell, Otis Hodgkins.

HERRIMER G. & S. M. Co.—Amador District, N. T.; five hundred thousand dollars; Trustees, same as above.

JOHN ADAMS G. & S. M. Co.—Amador District, N. T.; one hundred thousand dollars; Geo. H. Johnson, H. Carleton, Jr., H. M. Newhall, T. S. Mitchell, Otis Hodgkins, W. M. Newhall.

QUINCY G. & S. M. Co.—Locution, capital stock and Trustees, same as above.

ALMADEN No. 2 M. Co.—Desert District, Churchill Co., N. T.; one hundred thousand dollars; G. H. Johnson, G. T. Gould, H. Somers, T. S. Mitchell, Wm. Higgins.

SHAKESPEARE O. & S. M. Co.—Desert District; one hundred and twenty thousand dollars; Trustees, same as above.

PLANET G. & S. M. Co.—Desert District; one hundred and seventy thousand dollars; Trustees, same as above.

LADY OF THE LAKE G. & S. M. Co.—Location, capital stock and Trustees, same as above.

SUSAN AND WILLIAM G. & S. M. Co.—Desert District, N. T.; two hundred and ten thousand dollars; Trustees, same as above.

CORDOVA G. & S. M. Co.—Big Creek District, Lander county, N. T.; one hundred and fifty thousand dollars; D. E. Buel, Thomas Doyle, M. O'Connor, A. Frank, A. J. Bryant.

SUSQUEHANNA S. M. Co.—San Antonio District, Esmeralda Co., N. T.; one hundred and twenty thousand dollars; Edgar Briggs, W. H. Ladd, H. F. Williams.

MERRIMAC S. M. Co.—Location, capital stock and Trustees, same as above.

POTOMAC S. M. Co.—Location, capital stock and Trustees same as above.

JUPITER S. M. Co.—San Antonio District, N. T.; one hundred and forty thousand dollars; Trustees, same as above.

OLYMPUS S. M. Co.—San Antonio District; one hundred and sixty thousand dollars; Trustees, same as above.

MCMILLAN G. & S. M. Co.—Esmeralda District, Esmeralda Co., N. T.; three hundred thousand dollars; R. M. McMillan, Frank Mahon, T. C. Charles.

KENNEBEC G. & S. M. Co.—San Francisco District, A. T.; three hundred and twenty thousand dollars; W. P. Poole, F. B. Reynolds, E. Y. Mason, W. A. Rust, John S. Dudley.

SUSQUEHANNA S. M. Co.—San Antonio District, Esmeralda Co., N. T.; one hundred and twenty thousand dollars; Edgar Briggs, W. H. Ladd, H. F. Williams.

MERRIMAC S. M. Co.—Location, capital stock and Trustees, same as above.

POTOMAC S. M. Co.—Location, capital stock and Trustees same as above.

JUPITER S. M. Co.—San Antonio District, N. T.; one hundred and forty thousand dollars; Trustees, same as above.

OLYMPUS S. M. Co.—San Antonio District; one hundred and sixty thousand dollars; Trustees, same as above.

MCMILLAN G. & S. M. Co.—Esmeralda District, Esmeralda Co., N. T.; three hundred thousand dollars; R. M. McMillan, Frank Mahon, T. C. Charles.

KENNEBEC G. & S. M. Co.—San Francisco District, A. T.; three hundred and twenty thousand dollars; W. P. Poole, F. B. Reynolds, E. Y. Mason, W. A. Rust, John S. Dudley.

NORTH ECLIPSE M. Co.—Russ District, Tulare Co.; two hundred and ten thousand dollars; R. H. Waller, T. Brownejohn, E. C. McComb, R. M. Wilson, J. B. Crockett.

SOUTH ECLIPSE M. Co.—Russ District; three hundred and thirty thousand dollars; Trustees, same as above.

BAY CITY S. M. Co.—Reese River District, N. T.; four hundred thousand dollars; W. B. Cooke, J. W. Hendrie, Wheeler Martin, S. D. Jones, W. J. Benkert.

FIRST NORTH TALLULAH S. M. Co.—Sierra District, Humboldt Co., N. T.; two hundred thousand dollars; S. W. Chewning, E. J. Else, T. M. Howell.

PENNSYLVANIA COAL & COPPER M. Co.—Chili Camp District, Calaveras Co.; eighty thousand dollars; Jacob L. Gross, F. A. Stanhope, W. Nicol, John Good, H. Persuhn.

SAN FRANCISCO AND CASTLE DOME M. Co.—Castle Dome District, A. T.; one million nine hundred and twenty thousand dollars; John Center, C. T. Fay, T. A. Hopkins, A. J. Cindding, John F. Addison, E. Head, A. Staples.

BIRDSEYE-FAY C. M. Co.—Chineware District, San Diego Co.; four hundred and forty thousand dollars; Trustees, same as above.

DELHI G. & S. M. Co.—Amador District, N. T.; one hundred thousand dollars; G. H. Johnson, H. M. Newhall, T. S. Mitchell, H. Carleton, Jr., A. M. Dunbam.

EXCELSIOR C. & S. M. Co.—Location, capital stock and Trustees, same as above.

Big Oak M. Co.—Big Oak Flat District; twenty-five thousand dollars; J. W. Fox, O. P. Truesdell, Joel H. Cooper, J. G. Perkins, S. DeWolfe.

Henry Clay M. Co.—Castle Dome District, A. T.; one hundred and twenty thousand dollars; C. T. Fay, T. A. Hopkins, C. W. Bryant, James Devoe, S. B. Stoddard.

Gov. Seymour No. 2 G. & S. M. Co.—Reese River District, N. T., one hundred thousand dollars; R. R. Craig, C. A. Keyser, O. F. Willey, John Matthews, J. C. Ross.

Cayuga G. & S. M. Co.—Reese River District; seventy thousand dollars; B. F. Snyder, C. A. Keyser, John Matthews, O. F. Willey, J. C. Ross.

Storey O. & S. M. Co.—Union District; sixty-five thousand dollars; Geo. Storey, O. F. Willey, C. A. Keyser, John Matthews, J. C. Ross.

Dowley G. & S. M. Co.—Simpson's Park District, N. T.; ninety thousand dollars; J. G. Phillips, H. L. Dawley, O. F. Willey, John Matthews, J. C. Ross.

Kappa G. & S. M. Co.—Reese River District; one hundred thousand dollars; C. A. Keyser, O. F. Willey, J. W. Credit, John Matthews, J. C. Ross.

Excelsior G. & S. M. Co.—Union District; one hundred and forty thousand dollars; J. M. Dawley, O. F. Willey, C. A. Keyser, John Matthews, J. C. Ross.

Mallacho O. & S. M. Co.—Union District; eighty thousand dollars; Trustees, same as above.

Smith Creek O. & S. M. Co.—Location, capital stock and Trustees, same as above.

Bullion G. & S. M. Co.—Union District; one hundred thousand dollars; O. F. Willey, H. L. Dawley, C. A. Keyser, John Mathews, J. C. Ross.

Andalla G. & S. M. Co.—Union District; eighty thousand dollars; Trustees, same as above.

Bully Boy G. & S. M. Co.—Union District; one hundred thousand dollars; Trustees, same as above.

North Lawrence and Guilford Consolidated G. & S. M. Co.—Amador District, N. T.; two hundred and eighty thousand dollars; N. A. Watson, W. H. Briggs, J. A. Drinkhouse, S. M. Buck, A. S. Shaw.

Sunset G. & S. M. Co.—Amador District; one hundred and eighty thousand dollars; Trustees, same as above.

Red Cap O. & S. M. Co.—Amador District; two hundred and twenty thousand dollars; Trustees, same as above.

Darrah O. & S. M. Co.—Amador District; two hundred thousand dollars; Trustees, same as above.

Santa Clara O. & S. M. Co.—San Antonio District, N. T.; one hundred thousand dollars; J. A. Drinkhouse, D. W. Chambers, Henry Chambers.

Young Harmon O. & S. M. Co.—El Dorado county; two hundred and forty thousand dollars; G. W. Paget, G. S. Ashmead, John H. Schroeder, E. H. Shaw, W. H. Kirby.

Segregated Tesoro S. M. Co.—Reese River District; one hundred and five thousand dollars; J. Wilson, J. H. Peeples, J. R. Harrold, J. Davis, Jr., F. W. Gross.

NEVADA TERRITORY.

Spira S. M. Co.—Gold Hill Disttict. Trustees: Ed. Fuller, G. W. White, J. D. Niven, J. F. Peacock, W. H. Davenport.

Clarement G. & S. M. Co.—Cold Hill District. Trustees: O. H. Dana, J. B. Larcomb, G. M. Marshall, H. W. Douglass, J. Clement

Read O. & S. M. Co.—Gold Hill District. Trustees: J. G. Thomas, J. D. Niver, G. H. Shaw.

Lady Esther G. & S. M. Co.—Cold Hill District. Trustees: W. B. Scribner, J. H. Mallett, J. S. Mansfield.

Carson River Ledge G. & S. M. Co.—Spring Valley District. Trustees: W. P. Peabody, J. Humphreys, C Lainzne.

Glasgow M. Co.—Gold Hill District. Trustees: O. C. McDonald, Wm. Minto, S. B. Orvis, E. Cushing, J. W. Hall

Sluice G. & S. M. Co.—Gold Hill District. Trustees: A. Cramer, C. H. Rhiser, H. J. T. Scheel.

Pony Express G. & S. M. Co.—Blue Sulphur Spring District. Trustees: S. D. Young, H. P. Russell, J. L. Moore, O. H. Platt, F. Downer.

Mr. Jarvis Jewett is our duly authorized advertizing agent and collector in this city.

San Francisco Stock and Exchange Board.—Prices Bid and Asked.

WASHOE STOCKS.	FEET.	SHARES.	VAL.	Saturday. BID.	Saturday. ASKED.	Monday. BID.	Monday. ASKED.	Tuesday. BID.	Tuesday. ASKED.	Wednesday. BID.	Wednesday. ASKED.	Thursday. BID.	Thursday. ASKED.	Friday. BID.	Friday. ASKED.
Ophir	1,400	16,800	300	—	1,500	1,475	1,495	1,450	1,500	1,450	1,520	1,500	—	1,560	1,600
Gould & Curry	1,200	4,800	500	4,600	—	4,825	49,00	4,850	4,700	4,750	4,800	4,850	4,800	4,800	4,840
Savage	863	800	2,000	3,175	3,275	3,175	3,250	3,225	3,200	3,250	3,000	3,100	3,075	3,100	
Chollar	1,400	5,600	300	325	375	330	375	325	350	335	345	300	325	260	325
Potosi	1,400	2,800	500	1,300	1,325	1,300	2,000	1,300	1,500	1,300	1,400	1,320	1,450	—	—
Hale & Norcross	400	800	500	—	—	—	—	—	800	—	800	—	750	—	750
Sierra Nevada	3,000	3,000	100	95	105	100	—	90	92	95	100	—	90	75	100
Caney	2,000	800	60	76	85	105	—	117½	120	110	115	80	90	90	95
Burning Moscow	4,100	4,100	500	101	105	96	100	91	—	82½	90	90	92	80	84
North Potosi	2,000	2,000	250	50	—	51	54	42½	—	42½	44	47	50	50	52½
Charles Cuny	1,800	1,800	30	5	10	5	10	6	—	9	10	—	9¾	—	—
Iowa	1,200	1,200	1,000	—	—	—	—	—	100	—	—	—	75	—	60
El Dorado	1,600	1,600	500	50	52½	40	55	45	50	42½	52½	—	—	40	62½
Norton	1,600	1,600	50	5	8	—	—	—	20	7	10	—	9	—	9½
Burnside	2,800	2,800	500	16	17	15½	16½	12	15	14	15	14	15¾	13	15
Adriatic	2,700	2,700	100	—	12	—	12	8½	10	6	9	6	8	7	8½
Pride of the West	1,400	1,400	100	65	85	95	80	—	100	80	90	85	90	80	84
Imperial	184	4,000	500	—	185	—	180	—	200	—	—	—	180	—	180
Crown Point	660	1,200	100	—	—	—	—	—	900	—	—	—	—	—	900
Manhattan	—	—	—	—	4	—	—	—	5	—	4	—	—	—	—
Seneca	—	—	—	10	20	15	17	17	18	15	19	15	19	—	20
Mt. Davidson tun'l.	1,000	1,000	200	3½	4½	—	—	3¾	4	3	4	3	3¾	—	3¾
Hudson	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bajazet & G. Frn.	4,000	4,000	300	32	—	33	35	32½	36	35	38	30	—	35	40
Cedar Hill tunnel	—	1,000	100	—	2	—	2	—	1½	—	—	—	1½	—	—
Gold Hill Qu'tz Mill	—	—	—	—	300	—	300	—	300	—	180	—	300	—	300
ESMERALDA.															
Wide West	1,400	1,400	2,600	30	—	31	32½	33	35	—	31	30	32	29	30
Antelope	1,200	1,200	500	240	260	210	260	—	255	—	250	150	240	155	250
Esmeralda	1,600	1,600	1,000	—	—	—	—	7	12	—	—	—	—	—	—
Real del Monte	4,400	4,400	400	115	121	99	100	80	84	68	69	72½	75	85	187
Utah	1,600	1,600	250	21	23	32	—	21	37½	21	40	23	—	25½	30
Silver Hill	3,000	3,000	500	11	—	—	—	11	—	9	11½	12	13	12½	—
Nevada	600	1,200	250	—	—	—	—	—	—	—	—	—	—	—	—
Falls of Clyde	6,000	6,000	100	—	—	—	—	—	—	—	2	—	—	—	2
Bamboo	600	600	500	—	80	—	—	—	—	—	—	—	—	—	—
Crockett	—	—	—	12	20	5	20	14	15	10	19	10	19	—	15
Federal Hope	—	—	—	—	3	—	—	—	—	—	1	—	1	—	25c
Jenny Lind	—	—	—	—	—	—	2	—	—	—	—	—	6	—	6
COSO.															
Josephine	9,600	4,800	2,500	—	—	—	2	—	1¾	—	1½	—	—	—	2
Willow Springs	2,700	2,700	100	—	2	—	—	—	—	2	—	—	—	—	5
Coso	2,600	3,600	600	—	—	—	8	4	—	—	—	—	—	5	—
COPPER.															
Napoleon	2,700	2,700	600	42	60	—	60	—	55	47½	52½	55	60	65	80
Josephine	—	—	—	—	—	3	8	3	8	3	7	4	—	6	—
CALIFORNIA.															
Laurel Hill	—	—	—	—	5½	—	—	—	—	—	—	—	5½	—	—
Rhodes Diggings	—	—	—	—	—	—	—	—	—	—	—	5	—	—	—
Fellowes	2,500	2,500	100	—	—	—	—	—	—	—	—	—	50	—	—
Maxwell	—	—	—	—	—	—	—	—	—	—	—	—	80	—	—
Rock River	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Eureka	—	—	—	—	40	—	—	—	—	—	—	—	—	—	—
HUMBOLDT STOCKS.															
De Soto	1,980	1,980	100	16	20	—	40	—	25	—	—	—	—	15	25
Great Basin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Bankers Gold and Silver Mining Company, Gold Hill, Virginia District, N. T.—The Annual Meeting of the Stockholders of the Bankers G. & S. M. Co., will be held at their office, No. 629 Washington street, San Francisco, on Tuesday, March 1st, 1864, for the purpose of electing Trustees for the ensuing year and the transaction of such other business as may be necessary.

7v8-3t W. AUG'S. KNAPP, Sec'y.

El Dorado Consolidated Gold & Silver Mining Company, Devil's Gate District, Nevada Territory.—Office 113 California Street.—San Francisco, February 3d, 1864.—At a meeting of the Board of Trustees, of the El Dorado Consolidated Gold & Silver Mining Company, held this day, an assessment of one dollar ($1) per share was levied upon each and every share of the Capital stock of said Company, payable immediately, in United States Gold Coin, at the Office of the Company in San Francisco, or to H. F. RICA, at Carson City, Nevada Territory. By order of the Board of Trustees.

February 4th, 1864. [7v8-4t] JNO. F. POPE, Sec'y.

Emmett Copper Mining Company, Office No. 645 Clay Street, San Francisco, February 6th, 1864.—Notice is hereby given to the Stockholders of the Emmett Copper Mining Company that an assessment, No. 3, of 25 cents per share was this day levied on each and every share of the Capital Stock of said Company, payable immediately in United States Gold Coin, to the Secretary, or to L. HONIGSBERGER, Copperopolis.

7v8-4t M. O. ELMORE, Sec'y.

CAUTION.

Notice is hereby given that the following mentioned Certificates of the stock of the Prima Donna Gold & Silver Mining Company were, on the 5th day of February 1864, sold at public Auction, according to Law, for non-payment of assessments due thereon, and will not be transfered on the books of the Company, viz:

NAMES.	NO. CERT.	SHARES.
Olof Broner	193	5
E. H. Coe	135	25
Jas. Flanagan	169	5
Henry J. Hyland	158	5
Jas. G. Lambert	39	5
H. McKinaly	164	10
H. McKinaly	165	10
H. McKinaly	166	5
E. R. Potter	35	5
A. S. Rogers	116	10
W. L. Sparrow	95	15
Frank Tolin	132	10
O. F. Von Rhein	157	5

7v8-2t H. B. CONGDON, sec'y.

Enterprise Copper Mining Company.—Office 645 Clay Street, San Francisco, Feb. 13th, 1864.—Notice is hereby given, that there will be sold at the Office of the Enterprise Copper Mining Company, on Saturday March 19th, 1864, at 10 o'clock A. M., so many shares of the Capital Stock of said Company as will be necessary to pay all assessments due and delinquent, standing in the names of the following parties:

NAMES.	NO. SHARES.	AM'T. DUE.
Abell & Evans	200	$ 52
A. Bateman	125	32 50
Belcher & Schwarz	34	8 84
M. Berkowitz	50	4
John Cochran	25	14
J. M. Camon	25	14
J. P. Dameron	100	46
Wm. Davis	25	6 50
Thos. Donahue	15	8 40
James Daley	10	2 60
D. Ebner	133	21 28
Wm. Harris	400	204
J. Krone	133	34 58
J. B. Khicald	25	6 50
V. S. Levy	200	475
O. W. Melone	20	8 20
V. C. Putman	200	32
P. Robinson	200	52
E. F. White	200	52

By order of the Board of Trustees. M. G. ELMORE, Sec'y.

San Francisco, Feb. 12th, 1864. 7v8-4t

Information Wanted at this Office, of the place of business of the following named Companies:—

Circulo Cordo Mining Company; H. Alder, President.
Bold Rover, Gold and Silver Mining Company.

Carson Silver Mining Company, (Monitor District), Office 622 Washington St., San Francisco.—Notice is hereby given, that in accordance with the laws of the State of California and an order made by the board of Trustees of the Carson Silver Mining Company, there will be sold at public auction at the Office of the company (by Jerome Rice & Co., Auctioneers) on Friday, March 11th, 1864, at 12 o'clock, (noon) of that day, so many shares of the the Capital Stock of said company, standing in the name of the the following named Stock-holders as shall be sufficient to pay the following described assessments: No. 1, Twenty (20) cents per share, levied April 30th, 1863. No. 2, Fifty (50) cents per share, levied Nov., 30th, 1863; together with expenses of advertising and sale, unless said assessments are previously paid with accruing charges. To wit:

NAMES	SHARES	AMOUNT.
C. M. Gregory, No. 1, 200 ft; No. 2, 163 ft	363	$121 60
D. K. Clapp	125	87 50
J. L. Waite	145	101 50
W. Brackett	60	42
E. W. Brackett	25	17 50
W. H. Knight	25	12 60
L. Dessoworth	12	6
Wm. Davlson	20	10

7v8-4w C. STEVENS, Sec'y.

Secretaries' MINING DIRECTORY.

The Publishers of the MINING AND SCIENTIFIC PRESS will soon issue a new Edition of the MINING DIRECTORY, containing the names, as far as possible, of all Mining Companies, the location of their lodes, Secretaries' names and the offices of such as have their principal place of business in San Francisco.

☞ Secretaries of newly incorporated companies, or others who have not their names on our old list, will oblige hand in a written statement of the names of their companies, location of claims, place of business, etc., immediately.

DEWEY & CO., Publishers and Patent Solicitors, 56 & 57 Government House, Corner of Sansome & Washington streets, San Francisco. 6v8-tf

HORTON'S TRANSFER JOURNAL.

—AN ARTICLE—

CHEAP AND CONVENIENT

For Mining Secretaries. For sale at this Office.

Orders from the Interior, accompanied with the Cash, will be promptly attended to. Price, $7; Postage paid, the price ammounts to $7 50. 6v8-tf

VALENTINE'S DAY!

MONDAY,.....February 15, 1864.

VALENTINES in solid Rosewood and Mahogany Cases, with Lady's Watch, and with Lady's Pin and Ear Drops, from Tucker's Jewelry establishment.
VALENTINES of every conceivable variety: Valentine Stationery, Valentine Cards, Valentine Mottoes.
FIFTEEN new and Original California Comics; local, and to the point.
NEW CALIFORNIA Valentine writer, containing 126 original, comic and sentimental, on all subjects.
VALENTINES on all subjects, written to order, at short notice.
VALENTINES—Persons caricatured—pencil sketch—in the best style, at short notice.
APPLETON'S VALENTINE EXPRESS, with six horses, will deliver Valentines every hour in the day, in every part of the city.

D. E. APPLETON & CO.,
508 Montgomery street, Opposite Tucker's and Telegraph Office.

STAGE NOTICE.

NEVADA STAGE COMPANY.

ON AND AFTER SATURDAY, JANUARY 2d, THE STAGES OF this line will run in connection with the Sacramento Valley Railroad from Auburn Station, each even date in the month, until further notice, to Allison's Ranch, Grass Valley, Nevada, Eureka, Steamboat Springs, Virginia City, and all points in Nevada Territory.

Office, corner of Front and K streets, Sacramento, opposite the What Cheer House.

N. B.—This line has been running stages for the last six years, and has never had an accident. Passengers can depend on their safety and comfort, as there are no persons in the employ of this line who are not stagemen. [6v8-1m] J. S. McCUE, Proprietor.

"CHIPPINGS."

The Alahama has burned a large number of vessels in Chinese waters.

There were fifty arrests in Virginia City, in the month of January, for drunks and disorderly.

The Portland *Union* gives an account of six sudden deaths at McMinville, Yamhill county, Oregon, hy congestive chills. One entire family, of the name of Collard, and a Mrs. Bean, were the victims.

The halance in the State treasury on Saturday, February 6th, was $491,469 68.

James F. Kennedy, Repuhlican dominee for Lieutanant Governor in 1859, died recently, at Santa Clara.

"Going ahroad to prospect and spend their money" is the heading the Trinity *Journal* puts to a paragraph announcing the departure of several citizens of Weaverville on a prospectiug expedition to Idaho.

D. A. Hanson & Co. have estahlished a tri-weekly stage line from Colusa to the Ashton copper mines, Colusa county, and run their stages so as to conuect at Bear Valley with Wilber's White Sulphur Springs line, says the Marysville *Appeal*.

A couple announce in the Providence *Post* their marriage, and add to the notice, "No cards, nor any money to get them with."

The celebration of the opening of the Northeru California Railroad will take place at Oroville, on Monday, the 15th inst.

The altitude of Quincy, Plumas county, Cal., is 3,127 feet.

Lassen is the name suggested for the new county proposed to he formed in the Houey Lake region.

County Courts in this State now have original jurisdiction over proceedings in insolvency, and in cases of forcihle entry and unlawful detainer.

For Washoe.—The Nevada *Transcript* says that the travel, at the present time, through that city for Washoe is unusually large. The stages go out crowded every day and most of the passengers hail from San Francisco and the lower country.

Fine Structure.—Wells, Fargo & Co. have manifested a just appreciation of the future importance of Virginia City hy erecting there the finest express huilding owned hy that extensive company in the entire Uniou.

The Price of a seat in the Washoe Stock Exchange is $500. It has recently advauced.

California Slate Pencil.—The Marysville *Express* says: We were handed a portiou of a sea weed which grows on our southern coast, and which answers all the purposes of a slate pencil. It is a small stem, growing to a point, and is most complete for writing purposes on a slate. We do not know whether this peculiar kind of weed is generally known, or its useful properties, but the specimen exhihited to us is the first that has come under our observation.

Before Cutting the Leaves of this journal, stitch each No. through the back, or fasten with a large pin, and you will have a paper in the most convenient form possible for reading or reference.

To Druggists and all Prescribing for Neuralgic and Nervous Cases.—Your attention is called particularly to the efficacy of WATTS' NERVOUS ANTIDOTE for the above. Feelings of humanity, independent of pecunlary considerations, would prompt you to recommend it in all cases of Neuralgic Pains, Face Ache, from defective teeth, and the General Wasting Away and Debility of the Nervous System, if you could have the assurance that this was what it is purported to be—THE GREAT RELIABLE TRANQUILIZER AND RESTORER OF THE SYSTEM. It has been repeatedly prescribed in cases of excessive drinking, on the verge of Delirium Tremens, and even while laboring under its distressing influence, with astonishing results. It contains no preparation of Opium or Valerian, and is never accompanied with the unpleasant sensation always experienced after taking successive doses of them. It is also the best Soothing Syrup in use. Patients have taken Watts' Nervous Antidote many months in succession, and experienced no unpleasant effect whatever—while the same continued use of many other popular remedies has completely shattered the system.
For sale, Wholesale and Retail, by SAMUEL ADAMS, U. S. Drug Store, corner of Pine and Kearny Streets, San Francisco. 6v8-2m

HEPBURN & PETERSON'S.
AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION OF THE Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from
Gold and Silver Ores,
Manufactured and exhibited at the Vulcan Iron Works, Nos. 137 and 139 First street, San Francisco.
These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machines now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.
nov8 3m* HEPBURN & PETERSON.

Miscellaneous Advertisements.

MINERS' FOUNDRY
—AND—
MACHINE WORKS,
First street, between Howard and Folsom streets,
SAN FRANCISCO.

EVERY DESCRIPTION OF IRON AND BRASS MACHINERY, the **Best** and **Most Economical**, manufactured in the State of California, will be furnished with dispatch at the Miners' Foundry and Machine Works, as:
Steam Engines and Boilers, Flour, Saw and Quartz mill machinery, Mining Pumps, Amalgamators, Retorts, Etc., Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections, designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.
*** Parties desiring to test their ores practically, in small quantities will be afforded ample facilities, free of cost.
All parties desiring accurate and highly finished drawings and Superior Machinery, at most reasonable rates are cordially invited to call before contracting elsewhere.
HOWLAND, ANGEL & KING.
San Francisco, February 23, 1863. tf.

PALMER, HANSCOM & CO.,
GOLDEN STATE IRON WORKS,
No. 19, First Street, San Francisco,
Furnish Castings and Machinery of all kinds,
Also Genuine White Iron Shoes and Dies.
PALMER, HANSCOM & CO.

To Quartz Miners.

KNOX'S IMPROVED AMALGAMATING PAN
WITH PALMER'S PATENT STEAM CHEST.

THE ABOVE COMBINATION SECURES THE MOST COMPLETE amalgamation of the precious metals of any process now known. By it steam is introduced in the most effective and economical manner, while it is peculiarly adapted to the catching of floating gold and silver, known to be otherwise lost. Made exclusively by
PALMER, HANSCOM & CO.,
Golden State Iron Works,
Nos. 19 and 21 First Street, San Francisco.

The public are informed that Letters Patent have been granted the undersigned upon Steam Chest False Bottoms for the inside of Amalgamating Pans or Tubs, and are cautioned against making, buying, using or selling the same without his consent.
tf W. A. PALMER.

Sacramento Iron Works.

I STREET, BETWEEN FIRST AND SECOND STREETS, SACRAMENTO.
GOSS & LOMBARD.....Proprietors.

MANUFACTURERS OF STEAM ENGINES, MACHINERY FOR Saw, Flour and Quartz Mills, Horse Powers, Windmills, Car Wheels, Suction and Force Pumps, Cast Iron Rifles and all kinds of House Castings, at reduced prices. Gas pipe of all sizes, and all kinds of Brass and Iron Steam Fittings, with Hemp and Rubber Packing, constantly on hand. Wrought Iron Work and all kinds of Brass Castings done to order.
We are the Sole Agents in this State for the celebrated Worthington Pump, an assortment of which we keep constantly on hand. We have just received from the East a fine assortment of Cast Iron Fence Patterns, suitable for yards, balconies, cemetery lots or graves. We shall continue to do our work in the best manner and at the LOWEST CASH-PRICES, hoping thereby to receive a just share of public patronage. 1-3m

JOHN P. GALLAGHER.....JOSEPH H. WEED.
GALLAGHER & WEED,
BRASS AND BELL FOUNDRY
And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING, DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, MADE to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks, also brass Padlocks and Shop Locks of various patterns, on hand and made to order.
☞ Particular attention given to casting Rudder Braces and Ship Work in general.
☞ All Jobs promptly attended to.—Prices moderate.☜
No. 125 First Street, opposite Minna, next door to Pacific Foundry.
[Removed from Oregon street, between Front and Davis.]
j2if

LEWIS COFFEY. J. S. RISDON.
LEWIS COFFEY & RISDON,
Steam Boiler & Sheet Iron Works.

THE ONLY EXCLUSIVELY BOILER MAKING ESTABLISHment on the Pacific Coast, owned and conducted by Practical Boiler Makers. All orders for New Work, the repairing of Old Work, executed as ordered, and warranted as to quality.
Old Stand, corner Bush and Market Streets. Opposite Oriental Hotel, San Francisco, Cal.

Vulcan Iron Works Company.
P. Torquet,.....Manager.
Steam Engine Builders and Boiler Makers,
Iron Founders and General Engineers,

PUMPING, HOISTING, MINING AND QUARTZ-CRUSHING MAchinery. Shoes and Dies of the hardest iron. Russia Iron Punched Screens, Steamboat Machinery, Saw, Flour and Sugar Mills. High and Low Pressure Boilers of all styles. Jonval and other Turbine Water Wheels with latest improvements.
tf No. 187 & 139 First Street San Francisco.

PORTLAND BOILER WORKS.
MOYNIHAN & AITKEN,
BOILER MAKERS AND SHEET IRON WORKERS,

N. B. All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.
Mission, between Beal and Fremont Sts., San Francisco.
fy29 tf

WANTED,
Gold Quartz suitable for Cutting Jewelry.
By FRONTIER & DEVEREUX.
437 Pine Street, San Francisco.
au31tf.

A. S. HALLIDIE & CO.,
WIRE ROPE MANUFACTURERS.
Established 1857.
Office, No. 412 Clay street—Works, North Beach,
SAN FRANCISCO.

After seven years' use throughout the State of California and the Pacific Coast generally, we can confidently recommend Wire Rope for
HOISTING FROM DEEP MINES,
CUY ROPES FOR DERRICKS, &c.,
STANDING RIGGING FOR SHIPS,
FERRY ROPES FOR FERRIES,
SASH CORD FOR WINDOW SASHES,
ETC., ETC., ETC., ETC., ETC., ETC.
It being Cheaper, Stronger, Lighter and More Durable than any other kind of Rope, and not stretching or shrinking by atmospheric changes.

MINING COMPANIES, by using it for Hoisting Purposes, save 66 per cent. on their outlay for other ropes.

Wire Fencing Strand,
For fencing large parcels of land—permanently, economically and expeditiously. Manufactured in any length desired.
Pamphlets containing weight, strength and price, forwarded free application to the Manufacturers.

WIRE SUSPENSION BRIDGES AND AQUEDUCTS
We are prepared to erect, of any span and capacity, and take pleasure in referring those interested to the many structures of this kind built by us in California, Oregon and British Columbia, of span from 200 to 400 feet. 3-3m

CROCKER'S
STOCK AND ASSESSMENT LEDGER.
Copyright secured—Price $10.
The necessity of a proper book for keeping the Stock and Assessment accounts of Corporations has long been very much needed. One that would combine economy and simplicity, and would not require the services of an experienced book-keeper to keep the accounts correctly. CROCKER'S STOCK AND ASSESSMENT LEDGER has met this requirement; we have submitted it to several Secretaries of corporations, and they acknowledge that the plan is admirable, and just what has long been wanted. The printed headings are a perfect explanation of the manner of keeping it; and any person, whether they understand book-keeping or not, cannot make an error in the accounts. The Stock and Assessment accounts are so arranged that the Secretary can in a moment tell how any stockholder's account stands, both in regard to Stock and Assessments. He can also, with the greatest ease, trace any certificate, through any number of transfers, to the original one issued. It saves a great amount of labor, as it does not require one-fourth the writing of the ordinary method. It dispenses entirely with the old style of Stock Ledger, Stock Journal and Assessment Book, all three of which Secretaries have heretofore been obliged to keep, condensing the whole in one book. To a person who is Secretary of several companies, this book will prove invaluable, and we feel no hesitation in guaranteeing satisfaction to those who may order them. Specimen sheets sent to those who desire to examine it. The books are ruled with one or two accounts to the page. State which is preferred.
Published and for sale, wholesale and retail, by
H. S. CROCKER, & CO.,
Book and Job Printers, Sacramento.

Certificates and complete sets of books for Corporations, in the finest style, at short notice, and low rates. 4-1m

WHEELER'S
Amalgamating and Separating Pans

IT IS ACKNOWLEDGED BY ALL WHO HAVE EXAMINED THE principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.
The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metal arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the triturating, this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.
Where these Pans have been introduced and operated by the side of others on sands from the same vat, the Wheeler Pans have uniformly gained a large percentage of metals, over its competitors, as well as a still larger percentage in the amount of work performed.
**These Pans may be seen in daily operation at the Miners' Foundry, on First street, San Francisco, where all interested are invited to call and examine for themselves.
no16-tf ZENAS WHEELER.

Mechanics' Institute Lectures.

A COURSE OF THREE LECTURES WILL BE DELIVERED before the Mechanics' Institute at Music Hall, by the following named gentlemen, who have kindly volunteered their services:—
Professors BREWER and WHITNEY, of the State Geological Survey, and Rev. T. STARR KING.
The Lectures will be delivered as follows:—
THURSDAY EVENING, January 14th, 1864, by Professor Brewer Subject: Mountain Scenery of California.
THURSDAY EVENING, January 28th, 1864, by Professor Whitney Subject: ——.
THURSDAY EVENING, February 11th, 1864, by Rev. T. Starr King. Subject: ——.
Single Tickets, $2; Tickets for Gentleman and Lady, $1.50; Tickets for the Course for a Gentleman and Lady, $4. 2-tf

Pacific Mail Steamship Company.
THE FOLLOWING STEAMSHIPS WILL BE DISPATCHED FROM SAN FRANCISCO IN THE MONTH OF FEBRUARY, 1864.
Feb. 3—ST. LOTIS,.....Wm. H. Hudson, Commander.
Feb. 13—CONSTITUTION,.....J. T. Watkins, Commander.
Feb. 23—COLDEN ACE,.....Wm. F. Lapidge, Commander.
From Folsom street Wharf, at nine o'clock A. M., punctually,
FOR PANAMA.
Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company.
A. B. FORBES, Agent P. M. S. Co.,
jl Cor. Sacramento and Leidesdorff Sts., San Francisco

W. W. HANSCOM,

Steam and Mechanical Engineer. Designs furnished, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc., etc. Agent for McKenzie's Patent Cupola and Blower.

At the Golden State Iron Works,

First Street, San Francisco.

1f.

THEODORE KALLENBERG,

Maker of Models for Inventors.

MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.

No. 418 Market street, San Francisco. n7-tf

FREDERICK MANSELL,

Mechanical & Architectural Draughtsman,

No. 422 California street, corner of Leidsdorff.

Drawings of Models made for parties applying for patents at Washington or London. mar23-tf.

PUMPS! PUMPS!

HARRISON'S

California Lift and Force Pump,

WITHOUT VALVES OR PACKING,

Suitable for Mines, Fire Engines, Wrecking or Irrigating. This is the Cheapest, Lightest and most Durable, and least liable to get out of order of any Pump yet invented.

ALL SIZES.

Capable of throwing from ONE HUNDRED to FIVE THOUSAND Gallons per minute. For sale by

C. H. HARRISON, Phœnix Oil Works,
517 Front Street, San Francisco.

Je15-tf

A New and Valuable Book.

PROCESS OF SILVER AND GOLD EXTRACTION, BY GUIDO Kustel, Mining Engineer and Metallurgist, former manager of the Ophir Works, &c.; 350 pages octavo illustrated.

This admirable work has met with the highest commendations from the Press and Scientific men, as a clear and able exposition of the science as practised in California and Nevada Territory. It is written for the people in good plain English and finely illustrated.

Price—post paid—Cloth $6; Sheep $7.

A. ROMAN & CO.,
Booksellers, Importers and Publishers,
417 and 419 Montgomery street,
San Francisco.

no30-tf

Mining Laws and Forms

JUST PUBLISHED, BY H. H. BANCROFT & CO., BEING A compilation of the Statutes of this State relating to Mining Corporations, Assessments, etc., with a digest of decisions of the Supreme Court and Forms of the Incorporation of Companies. Compiled by H. B. Congdon. 12mo., flexible cloth. $1,50. For sale at all the Bookstores. sep14-tf

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Giffard's Injectors,

FOR SUPPLYING OILERS WITH FEED WATER WITHOUT Pumps. No Mill or Mining Company should be without one of these valuable Instruments. Send for a Circular.

Corner of Pine and Front Streets, San Francisco.

Je22-tf DAVID STODDART, Agent.

Patronize Home Manufacturers!!!

JAMES LONGSHORE,

TRUNK AND VALISE MANUFACTURER, 397 SANSOME ST., under Tehama House. Trunks and Valises, Wholesale and Retail. Fine Sole Leather Trunks, Valises, and a fine assortment of LADIES' TRUNKS constantly on hand. Trunks covered and repaired.

au10

WM. H. MEAD, THEODORE VAN TASSEL

MEAD & VAN TASSEL,

HATTERS,

Montgomery St., corner of Commercial,

SAN FRANCISCO.

TO OUR FRIENDS AND THE PUBLIC GENERALLY:—HAVING purchased the entire interest of Messrs. Fishers & Co., in this city, we shall, on the 1st. day of May assume the management of the

HAT EMPORIUM

so long conducted by that firm.

MR. WILLIAM H. MEAD, for the last seven years salesman with Messrs Fisher & Co., respectfully solicits a continuance of the patronage so long and liberally bestowed upon the old House, feeling entire confidence in our ability to suit in every particular.

MR. THEODORE VAN TASSELL, for eight years with Messrs Le Gay & Co., would be pleased to see his friends at his new place of business.

The long practical experience of Messrs. Mead & Van Tassel in the Trade justifies them in saying that their work cannot be excelled either in finish or durability. Having perfected arrangements, we shall be in constant receipt, by every steamer, of soft goods of the very finest of FRENCH AND AMERICAN MANUFACTURE. Our Stock on hand is superb.

Call and examine, and judge of the merits of our claim to the title of "LEADERS OF FASHION."

Respectfully, MEAD & VAN TASSELL.
no2-tf Montgomery street, cor. Commercial.

GEO. A. METCALF. D. S. HUTCHINSON.

METCALF & HUTCHINSON'S

PHOTOGRAPHIC GALLERY,

650 Washington St. Three doors below Kearney, San Francisco.

HAVING REFITTED THE ABOVE ROOMS THE FIRM ARE now prepared to furnish the public with a superior style of Picture, at a lower price than ever before offered in the city.

CARD PICTURES.

As we have every facility for producing these beautiful pictures, in all their different varieties, we have reduced the price to

THREE DOLLARS PER DOZEN!

Large sized Photographs $3—Extra copies $1 each.

AMBROTYPES in all Styles and Prices.

OLD PICTURES copied with care and accuracy, in any style desired. Particular attention paid to pictures of children.

Pictures painted in Oil or Water Colors, and retouched in India Ink by a competent artist. aug.

CHARTER PERPETUAL.

PHŒNIX

INSURANCE COMPANY,

Of Hartford, Conn.,

DEVOTED TO FIRE INSURANCE EXCLUSIVELY.

Cash Capital,.....$400,000 00
Cash Assets,.....$611,253 53
Invested in California,.....$50,000 00

W. B. CLARK, Secretary. H. KELLOGG, President.

Pacific Branch Office:

S. W. corner Montgomery and Commercial Streets,

Over Banks & Co.'s Bank, Entrance 603 Commercial St.,

SAN FRANCISCO.

Premiums received by the "PHŒNIX" for insurance in this State are retained for investment in California Securities, and together with $50,000 already invested in Bonds, are held subject to claims for loss under California Policies, making

The Phœnix of Hartford

A HOME INSTITUTION.

Backed by a sound *paid up capital*, the prestige of years, and an extended and valuable experience in the business.

Losses honorably adjusted and promptly paid in United States Gold at points where they occur.

R. H. MAGILL,.....General Agent.

Policies issued and renewed in this sterling and popular Company, on all classes of desirable property, at rates as low as solvency and fair profit will admit of.

L. B. DELL, Resident Agent
J. FRANK, City Solicitor. 1-3m

J. P. LeCount & Co.,

..FURNISH..

CERTIFICATES OF STOCK,

Equal to Lithograph, for $25.

Stock Ledgers, Transfer Books,

And all Stationery Required by Mining Companies.

AT LOW PRICES.

4v8-tf No. 433 Sansome street, San Francisco.

Agency for the Purchase and Sale

— OF —

MEXICAN MINING STOCKS,

At No. 411 Clay Street, San Francisco.

OFFICE OF THE PENA AND LA MARRONENA SILVER MINing Companies, San Antonio District, Lower California.

All persons are invited to call and examine Ores from the above mines.

jtt WM. FAULKNER.

IMPORTANT TO MINERS.

MAGNIFYING GLASSES FOR EXAMINING QUARTZ.

MINING COMPASSES, WITH SIGHTS AND LEVELS.

BLOW-PIPES, GOLD SCALES.

POCKET COMPASSES, MAGNETS,

DRAWING INSTRUMENTS, in cases and separate pieces.

MARINE AND FIELD GLASSES.

EYE PROTECTORS. GALVANIC BATTERIES.

THERMOMETERS. BAROMETERS.

The Largest Assortment on the Pacific Coast for sale by

LAWRENCE & HOUSEWORTH, Opticians,
5v8-tf No. 637 Clay street, San Francisco.

HEYER BROS., 76 and 78 Federal Street, BOSTON.

HEYER BROS., 406 Battery Street, SAN FRANCISCO.

HEYER & CO.,

IMPORTERS OF

AMERICAN AND EUROPEAN FANCY GOODS, TOYS AND MUSICAL INSTRUMENTS;

ALSO, SOAPS, PERFUMERY, HAIR AND TOOTH BRUSHES, Port Folios, Portmonnaies, Ladies' Bags, Photograph Albums, Cutlery, Willow and Parian Ware, Children's Carriages, etc. Our Stock of Violin, Guitar and other Strings is very large. Our foreign Goods are selected by one of the firm, and the American by the Boston House (established in 1824.) We have the sole Agency for

HALLET & DAVIS' BOSTON PIANOS,
SMITH & BROS' HARMONIUMS, AND
TREAT & LINSLEY'S MELODEONS.

The Hallet & Davis Pianos are each supplied with their Patent Suspension Bridge, which is a decided improvement. It gives a full and clear vibration in the upper octaves, producing a quality of tone unequalled in firmness and purity. Our Melodeons and Harmoniums are of the best quality, and warranted to give satisfaction.

3m.

THE RAILROAD HOUSE.

Nos. 318 & 320 Commercial and 319 & 321 Clay St.,

SAN FRANCISCO.

C. A. JAMES,.....Proprietor.

THE ABOVE HOUSE IS A FIRE-PROOF BUILDING, WITH Granite Front, and kept on the European Plan, with board and lodging by Day or Week to suit the convenience of our Patrons.

The rooms are handsomely Furnished, supplied with Patent Spring Beds, and Hair Mattrasses, affording very superior accommodations for families or single persons.

The Table is supplied with the best the market affords at prices to suit the times.

The Rail Road House Coach is always in attendance at the Steamers to convey passengers and their baggage to the House **Free of Charge.** **The House is open all Night.**

12-tf

REYNOLD'S

Patent Cut-Off and Governor,

For Steam Engines.

127 of these Invaluable Machines

ARE NOW IN USE

In California and Nevada Territory, giving a perfectly regular motion and

Saving 20 to 75 per cent of the Fuel.

Steen's Improved Governor

IS THE CHEAPEST, SIMPLEST AND QUICKEST TO ACT AND least liable to get out of order of any Governor in use. It can be seen in operation at the Golden State Iron Works, at the Stone Breaker, foot of Montgomery Street and at the Sugar Refinery, 8th Street, San Francisco.

Steam Engines, Boilers, Pipes,

Hydraulic Presses, Shafting, Pulleys, Etc., Etc., bought and sold the best market rates.

Anti-Incrustation Powder,

A sure remedy for Scale in Steam Boilers, without injury to the Iron. In use for the past EIGHT years.

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Antidote for Scales and Incrustation

Formed by the Deposit of Water in Steam Boilers.

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SOLE AGENT FOR CALIFORNIA AND THE PACIFIC COAST.

This Compound has undergone the examination of the most competent Chemists in France and England, and has been pronounced all over Europe the best ARTICLE ever found for removing Scales in Steam Boilers, this great evil of industry.

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Reference will be given to parties using the above, at the Agent's office. 6v8-1m

---

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10,000 Shares.....$100 per Share.

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Secretary.....W. FISK HITCHCOCK.
Treasurer.....MONTGOMERY GODLEY.
Superintendent.....WILLIAM FLEMING.
Engineer.....J. E. CLAYTON.

TRUSTEES:

R. S. WHIGHAM, formerly of Whigham's Mill,.....Nevada City.
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Mining Notices.

Crœsus Gold and Silver Mining Company, Turnback District, Tuolumne county, Cal.—At a meeting of the Board of Trustees of the Crœsus Gold and Silver Mining Company, held the 4th day of February, A.D. 1864, an assessment of ten cents per share on each and every share of the capital stock of said Company, was duly levied, payable immediately, in U. S. gold coin, to the Secretary, at the office of the Company, south-east corner Howard and Second streets, San Francisco. By order of the Board of Trustees.

San Francisco, Feb. 5, 1864. [6v8-5t] J. F. HARRIS, Sec'y.

Bay State Gold and Silver Mining Company, Turn-back District, Tuolumne county, Cal.—Notice is hereby given, that the annual meeting of the stock-holders of the Bay State Gold and Silver Mining Company, for the election of officers for the ensuing year, will be held on the first Monday in March, at the office of the Company, south-east corner Second and Howard streets, San Francisco. By order of the Board of Trustees.

San Francisco, Feb. 5, 1864. [6v8-5t] J. F. HARRIS, Sec'y.

Crockett Copper Mining Company, Copperop-olis, Cal.—Notice is hereby given, that at a meeting of the Trustees of the Crockett Copper Mining Company, held January 2d, 1864, an assessment of one ($1) dollar upon each and every share of the capital Stock of the Company was levied, payable immediately, in gold coin, to the undersigned, or to J. M. Pike, at Copperopolis; being assessment No. 2. On the 1st inst. the Trustees also levied another assessment, being No. 3, of one ($1) dollar per share upon each and every share of the capital stock of the Crockett Copper Mining Co., payable the same as assessment No. 2. Persons having interests in the Company are requested to come forward, prove title, and receive their certificates of stock. ISAAC HECHT, Sec'y,

No. 417 and 419 Sacramento street.

San Francisco, February 5th, 1864. 6v8-5t

Office of the Montezuma Gold and Silver Mining Company, No. 62 Government House, corner of Washington and Sansome streets, San Francisco, Feb. 5th, 1864.—Notice is hereby given, that a sufficient number of shares of the capital stock of the Montezuma Gold and Silver Mining Company, standing in the name of the following person, will be sold at public auction, at the sales-room of Jerome Rice & Co., No. 327 Montgomery street, on WEDNESDAY, March 9th, 1864, at 11 o'clock A. M., to pay an assessment of 12½ cents per share, levied April 27th, 1863, together with expenses of advertising and sale, unless said assessment is previously paid, with accruing charges—viz: Hugh McCormick; 247 shares; amount due, $30.87½. By order of the Board of Trustees.

6v8-5t C. A. CRANE, Secretary.

Triunfo Gold and Silver Mining Company.—At a Meeting of the Trustees of the Triunfo Gold & Silver Mining Co. held January 23d 1864, an assessment of One ($1) dollar per share was levied on each and every share of the assessable stock of the Company, payable immediately to the Secretary, at the Office of the Company, No. 1 Government House, in United States Gold Coin.

5v8-5t HENRY S. BROOKS, Sec'y.

Table Mountain Copper Mining Company, Office 528 Montgomery street, San Francisco, January 16, 1864.—Notice is hereby given to the stockholders of the Table Mountain Copper Mining Company, that an assessment (No. -) of one dollar ($1) per share was this day levied on each and every share of the capital stock of said Company, payable immediately, in U. S. gold coin, to the Secretary, or to J. M. Pike, Superintendent, at Copperopolis. By order of the Board of Trustees.

4v8-1m M. G. ELMORE, Secretary.

Bankers Gold and Silver Mining Company, Gold Hill District, Storey county, N. T.—Notice is hereby given that the Trustees of the Bankers Gold and Silver Mining Company have this day levied an assessment of fifty cents per share on each and every share of the capital stock of said Company, said assessment payable immediately, in gold coin, to the Secretary, at the office of the Company, No. 620 Washington street, or to R. C. O'Neill, Superintendent, at Gold Hill, N. T. W. AUGUSTUS KNAPP, Sec'y.

January 18th, 1864. 4v8-1m

Prima Donna Gold and Silver Mining Company, Devil's Gate District, N. T.—Notice is hereby given, that the Board of Trustees of the Prima Donna Gold and Silver Mining Company, at a meeting of said Board, held January 19th, 1864, levied an assessment (No. 5) of fifty cents on each and every share of the capital stock of said Company; said assessment payable immediately, in gold coin, to the Secretary, at the office of the Company, No. 620 Washington street, Room No. 3.

4v8-1m H. B. CONGDON, Secretary.

Mount Eden Mining Co.—Notice is hereby given, that the Board of Trustees of the Mount Eden Mining Company, at a meeting held January 2d, 1864, levied an assessment of One Dollar on each and every share of the Capital Stock of said Company, said assessment payable immediately in gold coin to the Secretary, at the office of the Company, No. 620 Washington street, Room No. 3. H. B. CONGDON, Secretary.

San Francisco, January 16, 1864. 3-5t

Black Swan Gold and Silver Mining Company, Reese River District, Lander county, N. T.—Notice is hereby given, that the regular annual meeting of the stockholders of the Black Swan Gold and Silver Mining Company will be held on the first day of March next, at 4 o'clock P. M., at the Company's office, No. 305 Montgomery street, San Francisco. By order of the Trustees. J. S. LUTY, Secretary.

San Francisco, Jan. 27, 1864. 5v8-5t

Brown's Bronchial Troches for Coughs and Colds.— A neglected Cough, Cold, an Irritated or Sore Throat if allowed to progress, results in serious Pulmonary Bronchial and Asthmatic Diseases oftentimes incurable. Brown's Bronchial Troches reach *directly* the affected parts, and give almost immediate relief. For Bronchitis, Asthma, Catarrh, and Consumptive Coughs the Troches are useful. Public Speakers and Singers should have the Troches to clear and strengthen the Voice. Military Officers and Soldiers who overtax the voice, and are exposed to sudden changes should use them. Obtain only the *genuine*. "Brown's Bronchial Troches" having proved their efficacy by a test of many years, are highly recommended and prescribed by Physicians and Surgeons in the Army, and have received testimonials from many eminent men. Sold by all Druggists and dealers in Medicine in the United States and most Foreign countries at 25 cts. per box.

Agents for California, Remington & Co., San Francisco. 5-1m

MINING AND SCIENTIFIC PRESS.

List of Contents for January.

No. 1 of Volume VIII—January 2, 1864.—Mastodon Thigh Bone—Illustrated; Mining Review for 1863; Practical Education; Legislative Aid; Taxing the Mines; Gold Mines of New Zealand; Mining and Metallurgical Journals; A Trip to the Mines—Mariposa county; Silver Mountain District; The Lady Bryan Mine; Miscellaneous Items; Knight's Ferry—by our Traveling Correspondent; Hints to Prospectors; Letter from Lower California; Stock Remarks; Summary of Mining News—Gleaned from Various Sources; The Mining Interest; Mining Associations; Keystone Concentrating Works; Report of Stock Sales for the Week—Prices Bid and Asked; List of New Incorporations; Recent Patents; California Inventions; Mining Companies, Assayers', Stock Dealers', Machinists', Foundrymen's, and other advertisements.

No. 2—Jan. 9.—Hunter's Grain Separator—a new Invention, Illustrated; "A little Learning" not "A Dangerous Thing;" Crimea House—Copper Mines, by Our Traveling Correspondent; Reese River Correspondence; Summary of Mining News—California, Washoe, Humboldt, Reese and Owen's River Items; Annual Report of the Gould & Curry Mining Company; Owen's River Letters; Copper Mining in Canada; Short Paragraphs; Industrial Facts; Annual Treasury Shipments; Encourage Home Industry; Beginning of the New Year; Home vs. Distant Mines; California Copper Smelting Works; California Academy of Natural Sciences; Mining Share Market; Our Enlargement; Record of Mining Incorporations; Patent Department; The State Library; About Marvelously Rich Mines; Copper, its Price and Demand; Editorial Items; Stock Reports; etc.

No. 3—Jan. 16.—A Patent Stone-Breaker—with Illustrations; Extraordinary Mental Developments; Reese River Letters—Smoky Valley, Winter, Mines; Sanitary Remarks; Hints to Prospectors; Mining Summary—Placer county, Sierra, Yuba, Reese River, Humboldt, Washoe, Esmeralda, Lower California and Colorado Items; Statistical Articles; New Patents; Lost Arts; Editorial Paragraphs; Mining Share Market; Ophir Co. vs. Burning Moscow; Our Harbor Defences; New Incorporations; Stock Reports; Branch Mint Report; Petroleum as Fuel; Varieties; New Mining Notices and Industrial Advertisements.

No. 4—Jan. 23.—Indian Bar Copper Mines—Illustratlen of the Washington Mine; Correspondence—Chinese Camp and Jamestown; Reese River Letters; Summary of Mining News; Washoe Mining Stocks; A Durable Ink; The Metal Market; Roll of New Incorporations; The Opinions of Our Neighbors; Miscellaneous Information—Mechanical and Industrial Facts; Patent Department; A Mining School for California; The Mechanics' Institute and Fair; From Lower California; Magnificent Specimens; The Beauty of the Season; Silver Bricks; Mining Share Market; A Mining Advertiser, Editorial Paragraphs; Important Success; Mining Laws—a good suggestion; Stock Reports; Total Stock and Mining Transactions for the week; Chippings; New Mining Notices, etc.

No. 5—Jan. 30.—Rock Drilling Machine—with Illustrations; Human Fossils in California; Mechanism—Ancient and Modern; Coal Oil—"A Warranty that is Safe to Bet On;" Correspondence—Sonora, Tuolumne county; A Trip to the Mines—Mariposa county; Letter from Arizona; Mining Gossip—Edited by Frank Warddell; Letter from Humboldt; Importance to the California Miner of a Knowledge of Mineralogy; The Miners' Laboratory, containing a valuable article on Assaying Copper Ores; A Reese River Mansion; The "New Chemical Agent in Warfare; Copper Coating Boiler and other Iron Plates; Navigation of the Colorado; Mining Incorporations; Short Editorials; San Francisco Stock Sales; San Francisco Mining Share Market; Washoe Stock and Exchange Board; Mining Incorporations of 1863; etc.

The Mining and Scientific Press contains 16 pages in each No., and 417 in each volume; two volumes a year. Terms, in advance, 1 year $5; 6 mos. $3; 5 copies, 1 year, $20. For sale by all newsdealers. Liberal commissions allowed all who act as agents.

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Correspondence from competent writers is respectfully solicited upon all topics of interest to the general readers of the Press. Persons possessing a knowledge of new discoveries, curiosities, important improvements or developments, who have not the time or experience to write their observations elaborately, can send us the substance in a few words, and we will care for the rest. The real name of the author must be received, which will be kept confidential.

It is Impossible for editors to know all the merits and demerits of their correspondence, consequently the reader must not receive the opinions of our contributors as our own. Intelligent discussion is invited upon all sides, and the evidence of any error upon our part will be received in friendship, and treated with respect.

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. The Mining and Scientific Press Patent Agency has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

How to make your Remittances.—In most of the mining towns, brokers will furnish checks on San Francisco at par, (or at a very slight advance) to those who wish to pay us for subscriptions, advertising, mining blanks, etc. When it is more convenient, money may be remitted by mail at our risk if the parties sending will register their letters. Money sent by mail is seldom lost if properly enclosed. An excellent method is that of opening the layers of a card, placing the coins between the layers and sealing the edges together.

Back Numbers.—We have a limited number of past volumes of the Press on hand, which will be sold, neatly bound, at reasonable rates. A portion of the back numbers of the paper can be had by the single copy.

RENNIE & MORRISON,

STOCK BROKERS,

N. E. Cor. of Montgomery and Washington Sts., San Francisco.

Legal Tenders Bought and Sold. 7v8-mtf

Silver Butte Consolidated Silver Mining Company.— Office 528 Montgomery street, San Francisco. Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Silver Butte Consolidated Silver Mining Company, there will be sold at public auction, at the office of the Company, San Francisco, on SATURDAY, February 27th, at 11 o'clock A. M. of that day, to the highest bidder, for cash, in United States Gold coin, so many shares of the capital Stock of said Company, standing in the names of the following shareholders, as will be necessary to pay assessment Nos. 2 and 3, duly levied thereon, and now being due and unpaid, together with the expense of advertising and sale—to wit:

Name.	No. cert.	No. Ass't	Shares.	Amt.
Browning, John	137, 138, 139	3	25	$12 50
Beuchamp, J. W.	100, 239	2 and 3	20	20
Bauman, H.	152	3	2	1
Cross, J.	191	3	25	12 50
Ebelling, F.	131	3	1	50
Erskine, Geo. B.	301	3	3	1 50
Fallon, M. M.	111	3	1	50
French, B. F.	178	3	5	2 50
Johnson, B. R.	163	3	1	50
Johnson, G. H.	54, 144, 146	2 and 3	26	26
Johnson, G. H.	25, 56, 236 240, 257, 258, 259	3	35	17 50
Keek, H.	102 to 199 in., 201	2 and 3	125	125
Loomis, Riley	135, 354, 355, 356	3	26	13
Lord, T. B.	371	3	64	32
Littlefield, J. D	84, 85, 88, 89, 214, 215	3	81	40 50
Mains, J. K.	41, 42, 48, 49, 304	3	27	13 50
Merlain, E. D.	404, 266	2 and 3	21	21
Manchester, A.	100	2 and 3	6	6
Norcross, J. K.	184	3	2	1
Osborn, W. F.	349 350 361	3	23	11 50
Percival R.	90, 91, 95, 93, 252	3	12	6
Sproull, J. B.	211	3	5	2 50
Stratton, S.	212, 339	3	20	10
Wood, Sarah	243, 352	3	6	3

By order of the Board of Trustees. M. O. ELMORE, Sec.

San Francisco Silver Mining Company, Lower Cal-ifornia, Office 542 Sacramento street, San Francisco, December 24th, 1863—Notice is hereby given that in accordance with the laws of the State of California, and the By-laws of the Company, and an order duly made by the Board of Trustees of the San Francisco Silver Mining Company, there will be sold at public auction, at the sales-room of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on MONDAY, January 25th, 1864, to the highest bidder for cash, in U. S. gold coin, so many shares of the capital stock of said Company, standing in the names of the following persons, as will be sufficient to pay the assessments heretofore levied and past due, together with the cost of advertisements and expenses of sale, unless said assessments and charges are sooner paid.

Names.	Shares.	Amount.
S. C. Bradshaw	439	$304 05
S. C. Bradshaw, Jr.	20	7 12
Geo. R. Reeves	25	8 12
E. T. Peck	50	17 50
J. R. Stewart	25	17 50
C. H. Parker	75	15 00
G. H. Ames	5	1 00
Wm. H. Burlington	6	1 20
C. Boardman	25	8 12
J. M. Cummings	90	18 00
H. W. Chesney	10	1 00
Francis Cutting	5	1 63
B. Kimball	10	1 00
Mrs. C. Smith	8	80
E. Sammis	10	1 00
C. Lasselle Taylor	125	12 50
J. R. Warren	10	1 00
Geo. O. Whitney	75	15 00
J. B. Ryder	75	15 00
Robt. C. Bartlett	20	2 00
Martin P. Townsend	20	2 00
John Pinkhaber	5	1 00
Mrs. C. S. Brownell	7	70
John Perry	5	50
Simon Strahan	5	50
W. T. James	5	1 63
Henry S. Smith	20	2 00
W. L. Anderson	25	2 50
Chas. M. Cornell	10	1 00
P. J. Wood	25	6 00
John A. Lundquist	5	50
Thos. Pike	25	2 50
G. W. Smith	10	1 00

By order of the Board of Trustees.

dec28-4t H. C. KIBBE, Secretary.

The above sale is postponed to WEDNESDAY, February 10th, 1864, at 12 o'clock M. By order of the Board of Trustees.

5v8-2w H. O. KIBBE, Secretary.

Mammoth Consolidated Gold & Silver Mining Co., Excelsior District, N. T.—Office 528 Montgomery St., San Francisco, Nov. 28, 1863, Notice is hereby given that there will be sold at Public Auction, at the office of the Company, in San Francisco, on Saturday January 9th., 1864 at 12 o'clock, M., of that day, to the highest bidder, for cash in U. S. gold coin, so many Shares of the Capital Stock of said Company standing in the names of the following shareholders as will be necessary to pay assessment No. 1., of ten (10) cents per share, duly levied thereon by the Board of Trustees on the 9th. of May, 1863; also assessment No. 2., of thirty (30) cents per share, duly levied thereon by the Board of Trustees on the 27th of June, 1863, together with all the expenses of advertising and sale, unless said assessments are previously paid to M. G. Elmore, Sec., San Francisco, or to W. H. Dairympie, Financial Sec., Aurora.

Names	No. Cer't.,	No. Ass't.,	Shares,	Am't.
J B Best	74 343	1 2	300	115 00
G W Baily	344	1 2	200	80 00
J J Coddington	358	1 2	56¼	22 50
D C Crooker	334	1 2	250	100 00
T A Cutter	25 393 to 403 incl'	2	125	37 50
J R Dudleston	27 28	1 2	50	20 00
WD Garlaud	437 442 450 451 508	2	275	82 50
D H Haskell	65 to 69 incl'	1 2	50	20 00
James Jaques	333	1 2	250	100 00
R P Johnson	443	2	100	30 00
J H Latcham	283 284 288 to 291 incl'	2	60	16 93
E J Mathews	4	2	200	60 00
W Mason	92 402	2	13	3 90
John Patten	416 417	2	15	4 50
Geo Raymaud	126 to 131 incl' 136 to 142 incl'	2	125	37 50
G H Rogers	143 to 151 incl'	2	200	60 00
J S Shultz	61 487	1 2	95	38 00
G D Myers	360	1 2	5	2 00
A J Severe	170 to 189 incl'	2	200	60 00
N Steiner	118 to 124 incl'	1 2	100	40 00
H S Van Dine	218 338	1 2	175	68 75
H Watson	203 to 267 incl'	2	25	7 50
J C Darragh	268 to 274 incl,	2	50	15 00
J M Meredith	77, 446. 447	2	100	25 00
J Hawkius	73. 452, 456, 455, 454	1 2	175	70 00
C E H Wheaton	570	1 2	25	10 00

By order of Board of Trustees.

M. G. ELMORE, Secretary.

The above sale is postponed until Saturday, January 30th. 1864 at the same place and hour. By order of the Board of Trustees

2 M. G. ELMORE, Secretary.

The above sale is postponed until Saturday, February 27th, 1864.

6v8-3t M. G. ELMORE, Secretary.

Mining and Scientific Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

VOLUME VIII. SAN FRANCISCO, SATURDAY, FEBRUARY 20, 1864. NUMBER 8.

[Written for the Mining and Scientific Press.]

HINTS TO PROSPECTORS.

BY J. M. CHURCHILL, A. M.

(CONTINUED FROM PAGE THIRTY-FIVE.)

II. In searching for metals certain points are worthy of observation, as peculiarly affecting them severally. Thus, in placer *Gold* diggings, the ore has been brought to its present position by floating, or driven by a stream. Such places are therefore to be especially examined, where rocks or bars have formed impediments to its progress, and made it settle, as in a cradle. Yet, the water will subsequently have, in some cases, removed the obstruction and left the gold without its land-mark; again, as often occurs in California, in following the gold up-stream there will occur stretches in which no gold will be found, when further up it will come in again. Oxide of *Tin* occurs as stream-tin, in Cornwall, subject to some extent to the same influences. Increase in size will commonly occur up-stream.

The agglomeration of metals at certain points is often marked by changes in the bed rocks, either by the intersection of cross-courses or a change of strata. Thus, *Silver* at Kongsburg increases in yield on reaching schists, these schists themselves containing sulphurets of iron, copper, lead and zinc.

At Joachimsthal the silver ore is rich through basalt overlying lignite.

In Derbyshire, England, lead, zinc and copper occur in veins which traverse limestone and greenstone; these are rich in the former, in the latter they are mostly filled with veinstone. In Cornwall, *Copper* will occupy veins in granite which as they pass into the adjoining killas bear tin, and the reverse in other situations. Copper glance is very uniformly rich in the neighborhood of hœmatites and specular iron. At the junction of volcanic rocks with stratified, and in strata near granite, veins are frequently the most metalliferous.

At Wexford, Ireland, copper is found in Silurian rocks, lead, silver, and gold in small quantities accompanying it. In Renfrewshire native copper is found in trap rocks; at Trenance, in Cornwall, in serpentine; chrome iron constantly appears with this rock.

Lead is common to limestone of the varieties known as mountain lias, and oolite, gneiss, and quartz occasionally contains it, as also dykes of basalt and trap. The streaks on the face of crystals of galena and their coarseness are uncertain signs of silver.

Coal.—The common stratum below coal is fire-clay—above it blackslate. These may contain more or less iron. The clay is impermeable to water and the rainfall in passing through the slates carries down iron which tinges the springs along the margin of the coal—it also gives them a nauseous astringent taste. At the surface, along a coal-bed blacksmut, from breaking up of the coal with the weather, appears. In districts, where what geologists term denudation has taken place, the coal, softer than the surrounding rocks, has been removed by water, leaving terraces or indentations to mark its outline, hence the certain indication afforded by painted nauseous springs, or streams with ochrey slimes, near a black-colored hollow: This hollow, if level, will correspond more or less with the strike, and may be followed from hill to hill.

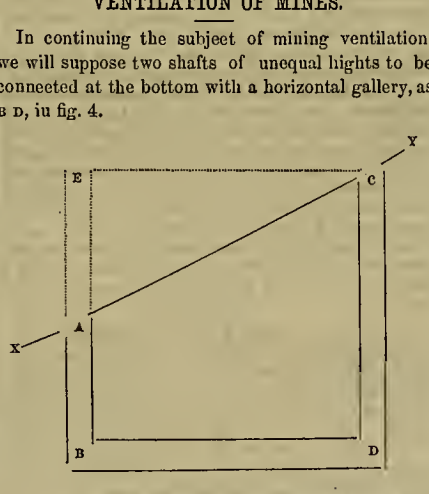
III. Minerals which are of increasing importance in the arts, are ores of nickel, cobalt, antimony, cryolite and aluminous minerals, heavy spar, and witherite or carbonate of barytes. Any large or easily worked deposits of these materials might be immediately available.

IV. The dip and strike being important, the following mode of determining them is simple and exact, if carefully carried out. Let the end of a rope (say five fathoms in length) be held against a wall of the vein, or the surface of a bed of coal, at a point two or more fathoms deep, and the rope be held straight and in contact with the face of the wall, or bed, and then passed over a stick at the level of a man's head at the surface, with the other end hanging to the ground. Let the stick be moved to the right or left (always keeping the two parts of the rope below it straight) till the hanging end covers or hides from view the whole length of the other half above the ground on looking directly towards the vein. The angle between the sloping rope and a level line square with the hanging one is the dip; and if two such sticks be held at the same hight a straight level line from one to the other will give the true strike. This will be different from what appears to be the strike when the outcrop lies on the side of a hill.

[TO BE CONTINUED.]

VENTILATION OF MINES.

In continuing the subject of mining ventilation, we will suppose two shafts of unequal hights to be connected at the bottom with a horizontal gallery, as B D, in fig. 4.



Let us further suppose that the inclined line X Y represents the slope of a hill. We have already shown that while two columns of air exist of equal density and hight, and connected as above, there will be no current or ventilation. But if the two columns of air be of unequal hight, as in the above figure, and differ in density for the surface atmosphere above the line X Y, then there will be a movement of the air in the shafts through the gallery B D, from D to B, and thence to the surface through the orifice A, provided the exterior atmosphere is lighter than that in the shafts. The philosophy of this will readily appear from a little attention. Let us suppose the shaft B A to be continued ideally to E; it will then be of equal hight with D C, and the exterior atmosphere being lighter, of course there will be a difference between the weight of the two columns of air, and the heavier contents of E D will drive the lighter contents of B A to the surface. Ventilation will thus be established, and as long as a difference between the specific gravities of the two columns exists, so long will the motion, once established, continue.

Thus, to obtain a ventilation, as above, it is only necessary to continue the difference in the density of the two columns of atmosphere. If the shafts are located on the side of a hill, and at such a distance apart as to create an important difference in their depth, natural causes alone are generally sufficient to bring about the desired result, as will hereinafter appear.

The density of the atmosphere near the surface varies according to the seasons and daily fluctuations of the thermometer. This variation is perceptible at a considerable distance below the surface; but at a depth of about seventy-five feet, the temperature of the rock and soil remains unchanged throughout the year. Hence it results that the walls of subterranean excavations are generally warmer in winter and colder in summer than the atmospheric air, in addition to which there are accidental causes of variation which occur almost daily and nightly. These differences of temperature between the internal and external atmosphere generally determine the current of air in the following manner:

In winter, the mean density of the air in A B, fig. 4, is greater than that in C D, consequently the movement will be in the direction A B D E, while in summer the reverse will generally be the case, and the movement will be from C to A. In a large mine the air is often compelled, in its course, to ascend and descend galleries and shafts more or less inclined before escaping to the outside. In such cases it will be observed that the air is more or less retarded, which shows that aeriform fluids are more or less influenced by gravity and friction in their passage from one point to another.

Where the two shafts are open to the outer air at unequal elevations, the movement will be constant in winter, because the shaft by which the air descends will be continually filling with air colder, while that through which it ascends will continue full of warm air; but in summer, the air which enters the mine being warmer than that which escapes, the excess of pressure will exist in an inverse way to the movement, which, together with the friction to which it is subjected, will gradually retard the movement, and finally, at times, destroy it altogether. Hence it will be perceived that it is very important, in arranging galleries for ventilation, that the air should be allowed to descend to the lowest part of the mine at the earliest possible moment after its entrance at the mouth, and to ascend again at the nearest possible point to the place of exit. If, on the contrary, the current of fresh air has to *ascend* soon after its entrance, and then *descend* again on its way to escape; it will be retarded, by the amount of friction engendered, and ventilation, to that extent, impaired.

Correspondence.

Calaveras Mines.

BY OUR TRAVELING CORRESPONDENT.

Mr. Editor.—As you descend the dividing ridge on the north side of the Stanislaus, on your way from Columbia to Murphys, you pass through one of the prettiest mountain valleys in the State, which is now as rich in cultivation as in earlier times it was in gold. Though some eight miles long, it is a perfect amphitheatre, as if originally the mouth of a great crater which threw out, centuries ago, the lava of the mighty and wondrous Table Mountain. Of Murphys, the northern extremity of this valley, I have already spoken. The next place on my route, having pretentions to public notice, is

DOUGLASS FLAT.

This is a small village two miles south of Murphys, which at present has some important diggings. They are deep, apparently the bed of an old water course. The first I visited was the claim of Dickinson & Co. Their shaft is 150 feet deep with a stope of pay dirt from five to twenty-five feet thick. It averages one dollar a bucket. This claim is worked by a water-wheel twenty-five feet in diameter, at a cost of eighteen dollars per week. They employ eight hands. Adjoining on the same lead is the

ENGINE COMPANY.

Their shaft is 119 feet deep, with same thickness of pay dirt. At this claim they have a ten horse-power steam engine, and I find the weekly expenses are about the same as a water wheel. They have been at work two years, and still have a large amount of good gravel; also employ six hands day and night. Both these companies subscribed. Next is the

UNION COMPANY.

Their shaft is 175 feet deep, with the same amount of pay dirt, and worked by water power. The weekly amount of gold taken out here averages from $400 to $500, and, at a rough estimate, it is supposed some $75,000 have been realized altogether. The water from these claims is pumped about 90 feet into tunnels which carry it to the ravine; the machinery is complete and effective, and the ground, as far as I could learn, considered good for years to come. I have seen no gold mines, of late, in a better working condition than those at Douglass. About two miles south is

VALLECITO.

This is also quite a pretty little village, but the best portion of it was burnt down last August. The placer mines around have been very rich and extensive. It boasts the largest piece of pure, solid gold found in the State; it weighed 25 pounds 9 oz. avoirdupois. The ground where this piece was found had not paid much before, and the man who turned it over was almost scared to death. When he got out of the shaft he was white as a sheet, and could only faintly articulate "gold, gold, gold." On going below they found this little "chispa." Some one in San Francisco offered $9.000 for it; it afterwards realized only $7,500 in New York. Even yet there are some excellent claims here. During my visit, the Dutch Company cleaned up 60 oz., for a two month's run with four men—as they happened to get water; leaving in the ground sluice, and black sand, it is supposed, at least 40 ozs. more. This claim has been worked nine years, and is still regarded good for two years' work.

The principal operation now going on, however, is that of our good friend Mr. Cohen, which he does not expect to complete before next August. This is a long tunnel through the limestone ledge, from a ravine below the town, to drain a large extent of ground which has never yet been thoroughly worked. It is an immense and costly undertaking, but there is no doubt, that finally it will enrich the company. Besides their own claims, they of course have the privilege of a tail-flume, which itself will be a large thing. There is, I understand, another tunnel running deeper than Mr. Cohen's, intended to drain the upper or northern portion of the flat, which his will not reach; work upon the lower tunnel, for the present, is suspended. I was sorry to hear people speak despondingly of its ultimate completion, for together they would infuse new life throughout the neighborhood.

There is a singular fact connected with this flat. The portion which Mr. Cohen's tunnel drains, runs its water into the Stanislaus; the other, where the channel is deeper, runs its water in an opposite direction, whither no one knows, nor can guess, as all the surface water, runs south to the Stanislaus. It is evident, there is a deeper and hitherto unknown channel, running west, at the upper end and in all probability richer than any yet worked. All this country abounds in natural curiosities, and the one I now speak of is by no means the least remarkable.

Vallecito also boasts some good gold and silver veins, under rapid development. The two principal are Mr. Harband's and Mr. O'Neele's. On the latter, there is a good ten-stamp mill, worked by water-power, with some excellent appliances of Mr. O's own invention, on the principal of Brevoort's and Wheeler's, only giving a different motion to the pulp. The vein is two feet thick and yields fine rock. The claim will soon be in perfect working order. Mr. O'Neele has the reputation of being a first class amalgamator, and I found him well posted. In treating his sulphurets, he uses sal amoniac, with the other usual common acids, sometimes in solution, and sometimes not. In the rock throughout this section there is a vast amount of plumbago, and considerable tellurium. The latter, never assumes an independent form, but is found in combination with both gold and silver, and I understand gives no trouble, except in the final separation of the metals. In Mr. Harband's claim. I had the pleasure of striking the celebrated Darling tin vein, and on the following morning again upon Mr. Bettinger's claim, so that now I have been on it for the space of 12 miles. Let the miners look out about Columbia, Sonora and Calaveritas, and they will find it there as well. From these facts you will see Vallecito has yet a chance of enjoying days almost as bright as those of yore, when her diggings paid by the pound, instead of by the ounce and dollars. Eight miles, southwest, is

CARSON HILL.

Few places have held a more conspicuous name in the history of California than that now under consideration. Perhaps no stream, for its length, was richer than the little creek that swept its western base; certainly no quartz richer than that which came from its very summit. I have not seen it since the time when the sheriff, with his party, and the miners with their party, some sixty strong on both sides, with rifle and revolver, went out to contest, to death, the right of the Morgan title—a title which our law-courts, thirteen years afterwards, have not been able to settle. How changed, how lonely, how silent it has grown. What has become of the mad, reckless crowd of men once swarming upon it—the large pack trains constantly passing up and down its tortuous paths—the man who made $20 a day carrying water from the river to us on the summit—the dashing Señoritas and their lovers—the fandango and its bloody victims—the drinking dens and gamblers—booming of the blasts, above, below, around, in every direction, night and day, as if the people were bombarding the infernal regions—all gone, and the grim old mountain left to its primeval solitude and silence. Well, better thus, a thousand times, than as it was in olden days, the haunt of nightly murder, drunkenness and rioting—a perfect Pandemonium. Yet, notwithstanding this change and this desertion, old Carson is of more importance to the State to-day than ever she was, and it is of this importance I have to speak. A short time since, I understand, there were nearly a dozen quartz companies at work, but at present there are only a couple. The first of these is the far-famed

MELONES.

The present condition of this celebrated mine, not its fluctuations up and down, like the barometer uncertain in bad weather, is what I have to deal with. There has been, perhaps, no period in its history more critical than the last month; but the trouble does not arise so much from the inferiority of the rock as from the difficulty of amalgamation. Impressed with the importance of this subject to the State, I wish to say something upon it. It is well known that a gentleman of reputation was sent up from the Bay, a few weeks since, to institute a new process; that it signally failed, the result being almost perfect "blue mass," instead of amalgam, with which nothing could be done; on this the stock fell below $40. Another gentleman followed, and restored the vitality of the mercury; on this the stock went up to over $60. But it does not appear to me, from the mere fact of restoring the vitality of the mercury, that the latter was more scientific than the former, and did I want to buy or sell Melones stock, I should not be influenced by either result.

Correct amalgamation of rock containing sulphurets is no doubt the great problem of the day. Much, indeed, of the progressive future of California depends upon its solution. At present, the problem has not been solved. So far as Melones is concerned the sulphurets are no worse and no better than at Washoe or any where else; nor have the recent experiments upon it elicited a solitary fact, good or bad, with which we were not perfectly familiar. Let me state the case for the benefit of your readers.

On decomposing the sulphurets there is no doubt now that magnetic iron exists, on which the sulphur released from the gold, in almost native purity, rushes into the mercury and utterly destroys its vitality—of course, then, the gold is lost. By introducing iron filings, and other well know agents, it is quite easy to restore the vitality of the mercury, but then the sulphur re-unites with the gold, and the mercury has no power over it. This is precisely the trouble—in either case we lose the gold. Now what is wanted is the discovery of an agent either, independent, or in combination, which, while it decomposes the sulphurets, will not destroy the mercury; for, without decomposition of the sulphurets, we cannot get the gold, and without preserving the vitality of the mercury we cannot save the gold. So the result of the recent experiments at Melones stand, in my opinion, to-day; thus—one operator by decomposing the sulphurets no doubt lost the gold; the other by preserving the vitality of the mercury did not save it. Where is the difference? So far as the stock is concerned, it is neither one dollar better or worse than it was before the experiments were made. Some doubt whether this great problem will ever be solved. I do not. I believe in the compensative principle of nature. It is impossible to conclude this sulphuret rock was idly created. What a field then our California chemists have to work in! The man who really discovers this secret on which so much depends, will inaugurate a new era in mining, and be a benefactor to the world. I have only to add that on the day I was at Melones, they were getting out splendid rock, both silver and gold. I consider the mine in a healthy condition. A mile and a half west, down in the bed of Carson creek, is the claim of

JONES AND GRIFFITH.

This company have got a very fine vein, and a large quantity of rock on hand ready for their new mill—ten stamps, water power, which will be completed in about a fortnight from the time I was there. It is a distinct vein, and appears to me to carry less sulphurets than any other I have yet seen in this section. The rock is of very excellent character, with handsome sprinklings of free gold. The works throughout are excellent. Mr. Griffith, the superintendent, is a close observer. He is about applying some experimental ideas of his own in amalgamating, which, so far as he explained them, I think will succeed, if not, as he somewhat apprehends, too expensive to pay. I sincerely hope they may, for the company are enthusiastic in mining and have spared no expense in fitting up their mill. I have to acknowledge the hospitalty of Mr. Griffith.

THE CHEROKEE.

This mine is situated about a mile out of Angels and north-west of the Copperopolis road. At this mill—ten stamps, water power—they have recently been crushing some remarkably rich rock, realizing for the last month somewhere about $7,000. The vein, at present, is somewhat broken, but still yields good rock, and looks well. I had the pleasure of breakfasting with Mr. Lombard, the gentlemanly superintendent, and from thorough examination can bear testimony to the ability with which he is working the mine. In the main drift they have cut a handsome copper vein. The Cherokee mine, like others, has had its fluctuations; but it is now in hands capable of developing it and I am greatly mistaken if its future is not one of prosperity and distinction.

Such, Mr. Editor, is another portion of the testimony I have gathered of the mineral wealth of Calaveras. Besides there are numberless veins, undeveloped, but prospecting well, which only wait the touch of capital to earn for themselves a high reputation. For my own part, I feel convinced that in five years hence I shall not be able to recognize the territory I lately traveled over, so greatly will it be changed for the better. Upon the principle that the magnet draws the needle, so will these mines eventually draw capital.

L. H.

The *Union*, in its Review of the market for the week ending Feb 1st says:—Trade is gradually reviving and the sales duing the week have been the largest that have taken place since last season. Although attention has been chiefly directed toward American Flat, transactions in Virginia District claims are again beginning to assume a degree of considerable importance. Outside districts are also gradually attracting notice, some rich discoveries forcing the conviction upon the public that there are other localities rich in minerals beside the districts in the immediate vicinity of Virginia and Gold Hill. A large number of sales have taken place outside of the regular Washoe Stock and Exchange Board in irregular organizations, which have taken to themselves a variety of names.

Humboldt County, N. T.

FROM AN OCCASIONAL CORRESPONDENT.

Friend Ewer.—I have long promised myself the the gratification of communicating to your valuable journal, so herewith receive my first episode. To write of the progress of our mineral ranges and the aspects of this county generally, would occupy quite too much space, for each week develops more and more the illimitable wealth of this section. Muscle capital and money capital is our great want. The Sheba mine is of unbounded extent and, one equal to any found in the Comstock range. As a proof of this we may cite the fact that its managers have been sacking up its richest ores for many months past, and have also several tons of ore of various grades ready for the stampers. Indeed from the very opening of this mine, paying ore has been extracted. Why this valuable property is in its present low state, none but the directors, probably, can explain.

The ranges here contain series of rich lodes: the Mammoth, Franklin, Sophia, Butler, Charter Oak, Almira, Yankee, Cora Ida, Aggis Land, with very many others whose names I have not by me just now; but all are in abeyance for want of laborers and capital; and then good mills to test the ores. The Sheba mill, of Star cañon, either from want of power or mismanagement, is of no account to us, so that we have to haul our ore to Fall's mill, at Buena Vista, distant from East range 20 to 35 miles; from the west side of Humboldt range 35 miles. There is no mill of any kind on that side, though water sufficient for steam purposes can be obtained in all the cañons and abundant water power on the Humboldt range. Thus many leads are undeveloped, and vast wealth remains locked up in Nature's burglar-proof safe. Draw the attention of some of your capitalists to these facts, that we may hope for mill aid before the close of 1864. The Humboldt Tunnel company is undoubtedly testing the hidden wealth of this range. It is intended to cut through from west to east three or four miles, *i. e.*, from Humboldt to Star City. Already a very large ledge has been cut, its width and value, I believe, is not yet tested. We have many fine and valuable lodes in Humboldt district and should be bullion producers if we had properly constructed mills, working at moderate charges, say fifty dollars per ton. Buena Vista possesses many valuable leads, but as your paper of the 9th of January gives items from Fall's Mill I need not say more.—[See also another letter in to-day's issue.—Ed. Press.]

The east range is full of rich veins—the Gem of Sierra, the Natches, the Yosemite, the Empire Tunnelling Company, the Minnesota, with very many others are all paying lodes, but are forced to haul their rock to Falls' Mill, 20 to 30 miles. It is needless to dilate on this great drawback to our prosperity. Water and fuel for steam mills can be had in this range to any extent.

El Dorado district, on the west side of Humboldt range, four miles from the river and 7 miles south of Humboldt City, is another valuable district, lying in abeyance more for the want of a mill than aught else; for most of the ledges are owned by the right sort of men—practical miners. The Zanesville is an example of what may be accomplished by energy and the united action of the owners. Five men only hold this rich lode; they incorporated locally, resolving to raise only $450 a month, or 25 cts. per foot by assessments; went to work vigorously and are now taking out pay rock, and if a mill were at hand would soon be bullion producers. They own a stream which yields sufficient water for a good steam mill, with fuel for years to come, so that a mill could be erected within ear-distance; but the owners probably have not the capital to expend on the work. This lode crops out three feet wide for 300 feet, showing the finest kind of mineral. Other lodes in this cañon want mill power. Echo district, St. Mary's and Indian each have their good ledges; the latter is crushing ore at Fall's mill, from the Moonlight, a very fine lode—the prospects were very fair when I was last at that mill; the yield I have not ascertained.

Casual visitors fancy we have neither wood, water, nor feed for stock—all of which is most erroneous. We possess each article in great abundance, with many fertile spots and cañons, that now supply us with the finest vegetables and garden stuff generally. Our winter season is gliding onward to spring, pleasantly enough, and a few weeks more will find us a busy and stirring people. Now however our population has thinned out by departure for the west, consequently trade is dull and money very scarce. A school is established at Buena Vista and Star, as well as Sunday schools, while a Methodist clergyman visits the different districts on alternate Sundays. Peace and harmony prevail generally, and the health of the county is excellent.

Your paper is of much value to us, while the articles under the head of "The Miners' Laboratory" and "Hints to Prospectors" are of vast importance to all miners. We hope they will be continued. We want information on the tests for cinnabar, silver and gold. Tests for tin and zinc would be of great advantage. [Our correspondent, and others will soon be gratified in these particulars—Ed. Press.]

My next will give you an account of a visit to Pyramid Lake and that beautiful spot, "Surprise Valley." H. O. G. S.

Humboldt, Feb. 8, 1864.

From the Humboldt Mines.

BY OUR REGULAR CORRESPONDENT.

Editor Mining and Scientific Press:—Being a reader of your paper, and noticing that Humboldt is poorly represented in your columns, as well as in most of the San Francisco papers, and being desirous of enlightening the good people of your city in regard to matters generally, I will write down a few lines for your consideration. We have had a very pleasant winter thus far; but little snow, and no very cold weather. Since the winter began, we have done much towards developing the immense mineral resources of the country.

In this district (Buena Vista), quite a number of companies have been constantly at work, and the result of their labors has been very satisfactory. The Jackson Company have been running their tunnel without intermission. They are now in 275 feet. They recently struck quite a stream of water in the tunnel, which is pretty good evidence that they are near the ledge. The ledge is large, and shows good mineral in the croppings and from the shaft, which has been sank on the ledge to a depth of 50 feet. The Manitowoc is at work on their incline. Considerable bullion has been shipped from this mine during the winter, of which I have seen no notice in the San Francisco papers. The rock has yielded over $400 per ton on an average. This is not the result from a few pounds of rock, but from several tons. (Do you think this will pay?) A number of tons has been worked from the Mars ledge, which has yielded handsomely per ton. The Anderson Company has been working night and day, constantly, for the last eight months. Their tunnel is in a little over 350 feet, and they are now taking out the richest silver ore I ever saw, which will be crushed as soon as the road to the mine can be completed. It is supposed that the ore from this ledge will work at an average $1,000 per ton. The quartz is free from base mineral, and is easily worked. The Black Hawk Company have several tons of ore ready for crushing. The Bacua Vista Company are taking out pay rock through their tunnel. The Nevada Company, on the Peru ledge, have their tunnel in 160 feet. The rock is very hard, but they keep hammering away, determined to break into their huge treasure vault, and convert the shapeless mass of mineral into half-dollar pieces. The Venus Company are putting in their best licks, and expect to strike the ledge in a short time. The tunnel is now in over 200 feet. The Cedar Hill Company have recommenced work on their shaft, which is now down 73 feet on the ledge. The Monitor has suspended work during the winter, but will recommence early in the spring.

In Indian District, the Moonlight is working night and day, taking out good mineral and having it crushed. They have already shipped considerable bullion. The ledge continues wide, and gets richer as they go down. The Illinois Company, on the same ledge, have their shaft down 60 feet, and are now drifting for the ledge.

Star District still maintains its reputation of having the best ledge ever discovered—the Sheba. I am not well posted as to what they are doing on other claims at Star, but know they have some very rich ledges, and it is the fault of their owners if they do not realize fortunes from them.

Sierra District has done more in the way of getting out the metallic substance than any other District in the county. Several lots of ore have been worked from the ledge known as the Gem of the Sierra. The last lot of five tons worked over $500 per ton. I think that is pretty hard to beat in any country. Rock has also been worked from the Minnesota ledge, which yielded well. A very rich vein of ore was recently struck in running the Neptune tunnel, which is said to eclipse anything ever before discovered.

I am informed that considerable work is going on in Humboldt District. The work in the big tunnel goes on briskly. Among the other companies at work in Humboldt are the Melrose, Morning Star, St. Charles, Cuba, Calaveras and Winnemucca.

Echo District is coming out bravely. Many companies at work; no idlers in the district. They have some of the best ledges in the Territory, and the boys in Echo know how to work them. The Morning Star tunnel is in 180 feet. The Scottish Chief Company have their shaft down 60 feet. There are several hundred tons of quartz ready for crushing in this District, and a good mill would do a land office business there.

It will be impossible for me to give you an account of all the mining districts in this letter; but I will endeavor to do them justice hereafter. Many of those which I have omitted to mention are entitled to as much credit as any of those named. The future of the Humboldt mines looks bright. Of all the quartz that has been worked, to my knowledge none of it has failed to pay well. The smallest yield at Fall & Price's mill was $175 per ton, and running from that to $500. It is my opinion that no other country in the world can beat us for rich silver ore.

The Humboldt Canal is progressing finely. Ten miles are already completed. This Canal will furnish an immense water power, which will be a fine thing for the Humboldt miners. The County Commissioners have ordered a road laid out from the head of Buena Vista Cañon, across the mountain, to connect with the road from Humboldt City to Carson, a little above the Junction House. This new road, when completed, will shorten the distance to Humboldt river, Virginia or Carson, about 15 miles; besides it will run past several of the best ledges in the district. All who have claims near the proposed road will no doubt contribute liberally to the enterprise, and the road will, most likely, be completed early in the summer. I will write you again when I have anything worth communicating. Quartz.

Unionville, Feb. 8, 1864.

Santa Fe District, Reese River.

We make the following extract from a letter recently received from Austin, N. T:

The reason that so little progress has been made in the development of Smoky and Santa Fe districts is, that when those districts were organized, a proviso in mining laws made a small amount of labor sufficient to hold claims until the first of next May. The consequence has been that as soon as prospectors had performed the required labor, they applied themselves to a search for other ledges, either in the same or other districts. We are very much mistaken if these men would not have found it much more profitable to have *developed* a few ledges rather than to have turned their entire attention to ledge hunting.

Santa Fe district contains between three and four thousand locations. In Reese River district the ledges are mostly situated in granite and do not average more than two feet in width; in Santa Fe, Smoky, Big Creek and some others of the outside districts, they are encased in slate. Perhaps the King ledge should rank first among those of Santa Fe, although it is not as wide as the Otho, Mammoth, or Imperatrice. Some very fine specimens from the King ledge were exhibited at the California State Fair, and it is held firm at $35 per foot. The San Francisco ledge is an extension of the King, and is undoubtedly a good ledge. The Imperatrice is about a half mile north of the Mammoth and is twenty feet in width. It, like the Mammoth, runs north and south and contains 1,200 feet. The Otho ledge is a fine vein. The Belle claim runs east and west. It contains about 1,000 feet, and its cropping's assay from $40 to $50 per ton. It is clearly traceable by croppings for nearly four hundred feet, and native silver is discernable to the naked eye on the outcropping. The Florida ledge is one of the finest in the district. It runs north and south. Near the Florida is the Maryland, a location of 1,200 feet, which also runs north and south; it is six feet wide, and the rock shows splendid sulphurets. It is bound to pay. About one-half mile south of the Maryland is the Santa Maria, an original location. It is about six feet in width, runs north and south, and is encased in slate. In the whole of Smoky valley, of which Santa Fe district forms one-half, there is an abundance of excellent water and much more wood than is to be found at Austin. A sawmill is to be erected immediately, and in the course of three months, two excellent quartz mills.

Quite Correct.—The First Board of Brokers, and also the Pacific Board, have adopted a resolution prohibiting their members from belonging to other Boards.

[Written for the Mining and Scientific Press.]

From Austin, Reese River.

Editor Mining Press:—The weather has been delightful for six weeks—almost a perpetual spring, greatly to the disappointment of all, even to those who claim a residence of three winters. Indeed, I may say, we have had no winter at all, with the exception of a few days, which in this State would be classified among the infantile winters. We have had one fall of snow not to exceed four inches, and this remained on the ground but a few days. We have had no rain to speak of since September, consequently the miners have been greatly favored through the winter in developing their mines, and, as a general thing, they have improved. The health of this section has recently been all we could ask. The hospital, which at the opening of winter was so fearfully beset with applicants, is now almost deserted. Good water, supplied from the tunnels, and other accommodations generally have brought about this change. This section of the great Pacific slope will prove as healthy as California. The mills have been in operation all winter, except when delayed by sediment in their water pipes or by temporary interruptions from frost. The returns from the mills have been highly satisfactory. If they were not crushing paying rock, they would suspend operations. Even though they extract but the price of their labor, it proves the richness of our mines, beyond a doubt. The great discrepancy between careful assays and the mill process, is conclusive evidence to my mind that our workings are defective and that we must resort to some better method whereby a closer approximation to the assay must be reached, or we must submit to work our mines under a great disadvantage. These difficulties will eventually be overcome, but only after much experience. The process of working at Gold Hill will not apply to rock here. However, with all our troubles, we are gaining ground in our shipment of bullion, which you can see by the daily reports.

The Oregon mill, ten stamps, is working from the "North Star" with fine results. The North Star might be pronounced a copper mine were it not more valuable in silver. The mill process finds better success with this rock than with the grey quartz from the "Oregon," wherein the sulphurets predominate, although the latter is pronounced much the richer in silver. The poor results of the mill, in working the Oregon rock, has induced the company to build a roasting furnace, which, when completed, will be employed to obviate the troubles attending the working of the rock. As a large number of our mines are similar in their characteristics to the Oregon, we wait the result of this experiment with much interest. This will be the first roasting furnace in this section and I hardly need add we expect much from it.

I was informed by the agent that the company was about to commence an action against the Manhattan Co., to try titles to the latter ledge. I have not examined into the merits of the question in controversy, but concluded that it will not be much unlike an historical fight in Kilkenny. They will doubtless both be doomed in the contest. It speaks well, however, for the value of both mines. "It is the best fruit the birds are picking at," is an old adage. The Bay papers state that the Mt. Bullion company has commenced a suit against the Amador and General Banks. We know nothing about it here. If it is so, it is not on the docket, certainly, but perhaps they have a summary way on Montgomery street, of acquiring assumed rights, and one unknown to our courts here. Both of these claims are being developed and show up finely. The Gen. Banks is incorporated and has made its first assesment of 30 cts. per share.

The Amador Tunnel Co. and the Wild Wood Tunnel Co. are still pushing the race. How far the first is in I don't know, but the latter has gone into the mountain 220 ft. and has struck a first class ledge. They are now driving for others. The stock is in demand here at $15 per foot, with an upward tendency. While I do not own a foot there, and never did, I may say, at that price, it is the best investment I know of in that district.

From the "Silver Queen" I have seen rock, 18 tons of which, worked at the Fountain mill, yielded $131 per ton. Nineteen pounds of rock taken out of the "Madre de Plata," and worked by mill process, yielded one dollar to the pound.

The attention of miners is now turned to the south of this (the Amador) district, in which direction both of the above named companies are located. From a distance of 130 miles, in that direction, reports come in good. A party recently started out for the Colorado on a prospecting expedition. Trade is rather dull, but many are coming in already, and we expect to see lively times shortly.

Your valuable journal is much sought after; but why is it a week getting here? [It is regularly and promptly mailed—Ed.] I understand that this city and Clifton are incorporated into one; we shall expect to see much improvement under the management of a corporate body composed of the solid men of Austin and Clifton. n.

Austin, Feb. 10, 1864.

[Written for the Mining and Scientific Press.]

More about Reese River.

Great numbers of miners who have been laying off through the last few months are now laboring hard on their claims, and all in fact are preparing for the summer campaign with a will. Lander county, during the coming summer, will prove to the world that she is worthy all that has been said and written in her favor. All the mills that have been completed are now in full blast, and each shows by the bullion turned out that the mines of this section are far better than even the most sanguine expected. In the outside districts many ledges are being developed. The miners begin to tire of excitement, and all appear to think their particular claim is the best; thus all are satisfied and the different companies are preparing for a thorough development of their claims.

Good accounts are coming in daily from the different districts, new towns are springing up, and all are putting the shoulder to the wheel; each one doing all he can for the common good. In the different districts of Smoky valley, the utmost contentment appears to prevail. The miners there, with the most perfect nonchalance, will tell you their mines are of no account; that they don't intend to work them long, but wish to trade them off for anything. Should you request them to set a price, however, you will be astonished at the figures they will name, and if you press them for a trade, you will soon find that they have merely been "talking," and that they will only exchange for a fortune in some other shape. Two hundred feet in one of the claims there was sold last week for the sum of $10,000. Smaller sales are of almost daily occurrance.

I have just seen a map of Clinton, a town in Smoky valley, got up by that accomplished engineer, Mr. Baker. A petition is being circulated for the establishment of a post office there. Several stores will be opened there in the spring, and the place bids fair to become an important distributing point. The town stands in the centre of a large mining district, and will soon have mills at work, sending its quota of "bricks" to your city.

Austin, upper Austin and Clifton are to be incorporated as the town of Austin. Business is improving; teams are even at this early day a common sight, coming in with their huge loads of freight. Everything speaks of lively times the coming summer. I do not think it needs a prophet to foretell that five years from to-day will see a large city where the village of Austin now stands. Unassessable.

The Fur Trade.—The market for furs is growing quite active at the East. Shipments are occasionally made from this port, and large numbers of furs are brought to this market from Oregon for shipment East. Trapping is also carried on to some extent in the mountains of California. We had an interview, a few days since, with Mr. George Beaman, who, in company with an old trapper by the name of Fisher, has recently returned from a trapping jaunt in the mountains in the vicinity of the Henness Pass. They had been out about three months, and brought in quite a quantity of furs, which were disposed of in this city at the following prices: Black fox, from $40@60; silver grey fox, $20@30; a cross between the two, $3@5½; common red fox, $1½; martins, 2½@4; fisher, $2½@8; neuter and common valley fox, from 75c@$1 each.

Neat Work.—We noticed a fine miniature truck, on Thursday, standing upon the sidewalk in front of Montgomery Block. This neat specimen of workmanship was from the shop of Mr. George P. Kimball, on the south side of Market street, near Fourth, where this class of truck is manufactured. It is known as Kimball's patent goose-neck truck.

MINING GOSSIP.

EDITED BY FRANK WARDELL.

[In this department of the Mining and Scientific Press we propose to give various and brief accounts of mining companies, and shall, under all circumstances, write *plainly* respecting their merits and demerits; furthermore, we shall bring to light such transactions as may come within our knowledge regarding the "Bulling and Bearing" system and the "underground" actions of both Trustees and Brokers. We are vain enough to suppose, at all events, that we have the "inside track," and shall, without *hesitancy or fear*, give to the public, from time to time, a peep behind the scenes whenever the occasion justifies. If, in doing so, at any time we have fallen in error as to our report, and it can be so proven, nothing will afford us more pleasure than to make the "*amende honorable*" by correcting the same. We shall feel under obligations to those who are interested in stock if they will communicate to us such items as may come under their observations, and which will prove interesting to our readers. This department is open for free discussion to "one and all." Our object is to render justice to every one. Communications, in all cases, must contain the author's name and address to insure publication, which will be kept *strictly confidential*—otherwise no notice will be taken of them.]

Real Del Monte Meeting.

The meeting called by the stockholders of this company took place at Blumenberg's Hall, in this city, last evening. The meeting was called to order at 8 o'clock, and, on motion, Judge Heydenfelt was chosen President, W. V. Wells, Secretary, and E. Connor, Assistant Secretary. The Judge then arose, and gave his views very plainly regarding the actions of the Trustees in their general management of the company. He remarked that recently a great change had taken place in this stock; it had fallen from $450 per share to $80, and he would like to know the cause of the same. He, like the majority of the stockholders, could not state the reason, and found it an utter impossibility to gain any insight whatever into the affairs of the company. All he knew was what Rumor said, and what newspapers had reported. Go on one side of Montgomery street, and the talk was that the mine had given out; then go on the other side of the street, and the report was that it was the best mine in the country; and the affairs of the company were never in a more flourishing condition; and yet the Trustees would not deign to give the least particle of a report, either of a good or bad nature, to satisfy the public enquiry. He further remarked that "foxes had holes, and the birds of the air had nests; but the stockholders of the Real del Monte had no place to rest their weary heads." Now was the time to take action in the matter, and to exact their privileges as stockholders. He concluded his remarks by saying that he would now retire, leaving it for the stockholders to decide what steps should be taken.

Mr. Robbins then addressed the President, stating that he would like to offer, for the consideration of those present, the following resolutions, which were read, and adopted unanimously:

Resolved, That a committee of three be appointed to examine the books and affairs of the Real del Monte Mining Company, extending back for twelve months past, and to report to a meeting of the stockholders, to be called at some day to be fixed by the chairman, to the following propositions:

1—The amount of bullion produced by and received from the mine.

2—The amount and objects of the expenditures for the same time.

3—The amount of the debt of the corporation and for what, and under what circumstances it was created, and to whom it is owing.

4—The character and history of the settlement made with the Pond Company and with other Companies.

Resolved, That said Committee be entrusted with power:

1—To employ an agent to ascertain the exact condition of the mine and mills belonging to the Company, and report upon the same.

2—To employ counsel to bring any necessary suit against parties who have dealt unfairly with the Corporation and the stockholders, or to set aside any illegal contracts which have been made by the Trustees, or to enjoin any assessment upon the stock of the Company which may be levied by them, with full power to move for and agree to the appointment of a Receiver to take charge of and manage the affairs of the Corporation, or for the removal of the present Trustees, and, if necessary, for the dissolution of the Corporation.

3—To call on all the stockholders for contributions, in proportion to the amount of stock held by each, for the purpose of carrying out the powers granted herein to the said committee.

After the reading of the resolutions the number of shares was then read and there was found to be, according to Mr. Morrison's account 2,435 shares represented—hearty applause followed the announcement. Mr. Fisher came forward and remarked that he would like to hear from any member of the new or old Board of Trustees, if present. Whereupon the cry went forth for Mr. Lent, who responded by saying that he was one of the new Trustees, and had not as yet got thoroughly into the affairs of the company; all he knew was what came through second parties. Mr. Brewster was now up there to ascertain full particulars about matters and things and until he arrived he could not say anything definite. He thought the mine was not so very good as represented, (in the first part of his speech.) [En.] but, in the latter portion of his remarks we noticed a de-

cided and more favorable change, especially when he introduced the subject of its paying a dividend before long, then, we noticed the faces of the audience begin to illume with delight. He also stated that to his knowledge some one hundred and fifty thousand dollars had been received from the mine within the past two months; this however, was not stated until the audience made the request. The meeting then adjourned to meet at the discretion of the President, when the report of the Committee, composed of Messrs. Warfield, Robbins and Buckley, would be read and acted upon.

Give Them a Call.—Parties who are not much "posted" regarding the *modus operandi* of the "hulling and bearing" system, as practiced by some of our leading and highly respectable brokers—excuse us, gentlemen, if we speak too plainly of your actions—can gain a little insight into the same by calling at the Bank Exchange any evening between the hours of 8 and 10 o'clock (Sundays not excepted), when they will be almost sure to find more or less brokers purchasing and selling stocks, giving their views respecting the merits and demerits of the different mines, and boldly playing the "bluff" game among themselves. It is really quite laughable to an outsider to witness the dignified attitudes that some of these worthies strike when they commence the "button-hole" mode, and whisper to you something confidential why this or that mine should go down or up, when probably, if the truth were known, they know nothing about it.

Selling Short.—It is reported that a broker firm in this city lost, in two days' transactions, by "selling short" in Real del Monte stock, over thirty thousand dollars. We should think, after such cases of experience as the above, that it would act as a warning to reckless operators, and, eventually, do away with this, the worst species of stock gambling.

Pennsylvania Tunnel.—They are working night and day upon this tunnel, and, according to last accounts received, are now in 716 feet. Their prospects are encouraging. We wish for them success, as they are a hard-working and deserving body of men who compose the company.

Santa Rosa G. and S. M. Co.—Mr. Cummings Cherry, long and favorably known as a thorough and practical miner, has received the appointment of Superintendent of this mine. Under his careful and skillful management, we *now* may expect to witness some favorable results. The reports already received here are encouraging, and we notice more activity in this stock in the market. As soon as Mr. Cherry gets affairs under headway we will give a more extended notice respecting the merits of this company.

Bullion G. and S. M. Co., Van Horn District has proved a total failure. They gave a final test by sending a few tons of rock to be crushed, which did not pay over one-half the expense of hauling. We always considered that district too risky for investments, without the parties purchasing desired to make them *permanent* investments; which, if such is the case, we guess that most of their wishes have been realized.

Falls of Clyde.—This lode crops out very large, and has the appearance of good prospects being taken from the croppings. The company are running a tunnel that will strike their vein about three hundred feet deep. The tunnel is good property, we think, independent of their own ledge, and will, without a doubt, strike the old Winnemucca, one of the oldest locations and main ledges in the District. The stock is at a very low figure in the market, much lower than it should be, considering the prospects of this company.

Real del Monte Contracts.—We learn that a mutual arrangement has been entered into by the members of the First Stock and Exchange Board, respecting the late "high figure" Real del Monte contracts. That is right, gentlemen; nothing like brotherly love among brokers.

A Free Fight among the Brokers.—The Pacific Board of Brokers passed a resolution a few days since expelling any member of the board who joined any other board. The rule was attempted to be enforced yesterday on a certain member, when a free fight ensued, in which one or two gentlemen became more or less damaged about the physiognomy. Keep cool, gentlemen!—Daily Democratic *Press*, Feb. 19.

We beg leave to differ with the writer of the above and, for his and the public's information, state that *no such occurence* took place in the Pacific Board. Furthermore we would give the reporter to understand that the board in question is composed of gentlemen and not shoulder strikers. Reporters should be more careful in giving their reports out to the public, before having them antheaticated.

Acceptable News.—We have been shown a private despatch from Mr. R. E. Brewster, President of the Real Del Monte Co., dated Feb. 19th, 10.40 A. M., stating "that he had fixed all matters satisfactory and that another shipment of $28,000 was on the way." We further learn that the above sum was taken out in only one week's run—and, not working their mills at night either. This makes nearly $86,000 received from their mine so far this month. If they continue at the same rate they will take out over $172,000.

Daney G. and S. M. Co.—This stock has "gone up" considerably in the market, caused by a report that they had struck very rich rock again. How much truth there is in the report, we know not.

Lady Bryan G. and S. M. Co.—During the first part of the week this stock was eagerly sought after and was in fact the favorite speculative feature, next to Real Del Monte, in the Boards. Towards the middle of the week it "weakened" considerably. A lack of confidence was manifested by purchasers At the close of the week, say Thursday, it "rallied" in the afternoon session of the Board—rather mysteriously, to almost its former prices; since then it has lowered" and on Friday closed dull, in all the Boards except the Pacific Board. We hear that the reports are not very satisfactory from the crushing of their ore.

Humboldt.—We give, to-day, very full correspondence from Humboldt and Reese River, from which it appears that the winter in those regions has been exceedingly favorable for mining. Prospecting operations are still carried on to a large extent; but there appears to be a growing conviction of the importance of more fully developing the mines in order to more readily induce capitalists to take hold of them. The canal enterprise of Humboldt, according to the Humboldt *Register* is sure of reaching its ultimate completion. It will afford water enough to run from 40 to 60 mills, and all the quartz can be boated down the canal from near the miners. The *Register* says Vance and Swim, at Fall's mill, do better work than one of ten amalgamators about Virginia—working ores to within five to twelve per cent. of value shown by fire assay. No rock crushed during the past two months, except a lot from the new Desert District, has worked less than $175 per ton; and from that it has gone up to $500. Vance has a new process—a discovery of his own—by which he works many of the ores found here, getting a higher yield than by any of the regular processes. In this he uses no chemicals, no materials whatever except those indigenous to Humboldt.

Virginia City.—Reports from Virginia City and vicinity are highly encouraging. An immense amount of work is being done at the present time. The late developments in the Flowery and American Flat districts appear to have inspired an increased degree of confidence in outside mines. By reference to our Washoe Stock Report, it will be seen that an unusual degree of activity prevails in the stocks of incorporated companies, which generally rule at better rates than those in this city. Reports from the New Desert district still continue favorable. It seems to be settled that an abundance of water for domestic purposes, at least, can be obtained convenient to the mines, and of a very fair quality.

From our home mines we have not as many particulars of interest, during the first of the week, as usual. A letter from our traveling correspondent will be noticed in the present issue, briefly noticing some very interesting experiments in the vicinity of the famous Carson Hill mines, and other matters of general mining interest in that region. The Calaveras *Chronicle* says the new mill on the Heckendorn silver lode, at Blue Mountain was to have commenced crushing on Monday last. The company are very sanguine that their lead will prove a complete success.

Siskiyou.—The Marysville *Appeal* of the 14th says: "We were shown from the Union Co's claim near Alleghany, one of the richest quartz specimens we ever saw in the State. It was difficult to decide which predominated, the quartz or the gold. This Company have made three 'clean-ups' since it commenced crushing, which yielded as follows: 1st, $43,000, 2d, $900, 3d, 36,455.93. The last sum was the product of 16 days' run, with an 8-stamp mill. The specimen we saw was from that part of the ledge which is denominated as a 'pocket.' This 'pocket' is about two feet wide across the lode, and is marvelously rich. 1,200 lbs. from it, in the late run is supposed to have yielded $10,000. The $36,455.93 was the product of about 100 tons of rock taken from the ledge without sorting. The Mountain *Messenger* of last week continues to speak very favorably of the mines at Howland Flat and vicinity.

The Portland *Daily Times* learns that they have struck silver bearing quartz in the vicinity of John Day's River, which is equal to the Gould & Curry. On the Malheur, rock has been found containing large quantities of gold and silver. Miners are making from an ounce to $20 per day. One company of ten men took out $1,200 during a single day. Everything indicates that region to be superior to any other on the Pacific coast.

The Red Bluff *Independent* learns, from a gentleman just down from the Boise Basin, that the miners expect to be able to work their claims in a very short time. They are already engaged in "stripping" them preparatory to working them. The weather is fine—no snow in the valley, and very little in the basin. Stock in the valley is looking finely, without any feed but that which nature furnishes. A large number of miners left this city for the Northern Mines, on the last upward bound steamer.

Siskiyou.—The Red Bluff *Independent* speaks very encouragingly of some new quartz diggings recently opened in that vicinity; assays are reported from $137@$410 to the ton. The same paper also says that arrangements are in progress for putting up a mill in the Pittsburg district. The mill belongs to parties in this city who had intended it for the Humboldt region, but will probably change its destination to Siskiyou county. The Minnesota claim has a shaft down 36 feet and a tunnel in 150 feet. The rock is very hard silver ore, free from base metals, and only awaits the erection of a mill to give returns. The *Courier* says that the Williams & Skillinger (copper) are taking out ore for shipment, at the rate of two tons per day, on which they get an advance of $71 per ton. Twelve Companies are now incorporated in the Pittsburg district, and five more will soon be added to the number.

Copper Discovery.—The late copper discoveries on the Russian river still continue promising. The original locators, on the Calvary claim, according to the Petaluma Journal, are taking out rich ore which is found in deposits, increasing in quantity as they enter the mountain. They have already a large quantity of ore, much of which will yield as high as forty to fifty per cent. in copper. The ore resembles that taken from the Mountaineer or Richmond lode on the Colorado river, being of a grayish color.

The copper discoveries near San Luis Obispo are creating considerable excitement in that neighborhood. The Pajon *Times* notices quite a number of companies which have already gone to work, or are about commencing operations there. The discovery of coal in the same locality has been announced and a company has been formed to develop the same under the title of the "San Semione Coal Mining Company."

To Correspondents.—We are compelled, for want of room, to take considerable liberty with our correspondence; in many instances by cutting it down, and in others by so condensing as to give essential particulars only.

Mechanical Department.

THE AMERICAN MECHANIC.

There never was a time when the mechanic was more fully appreciated throughout the world than he is at the present moment. In our own country this is most especially true. The American mechanic has already thrice revolutioned the world by his inventive genius:—First with the steamboat, second with the telegraph and lastly with the iron clad monitor Our war, so full of present disaster and so big with glorious prospects for the future, has been a most fruitful field for the display of our mechanical skill. and engineering genius. The efforts of our mechanics in this direction have presented us in an entirely new phrase to the European world. Notwithstanding the mendacity of the London *Times* and the equally mendacious *Blackwood*, both of which periodicals have used every endeavor to rob American Mechanics of their well earned reputation, by claiming the steamboat, the telegraph and finally the monitor as each and all English inventions, the mass of the English people, and indeed the people of all Europe, are now looking on with wonder and astonishment at our present display of mechanical power and genius.

Our country is a young giant; its growth in material power is a modern miracle among nations. It presents more openings for young men, not over blessed with competence or influence than any other nation on the globe. Our greatness has its chief foundation on the superior intelligence of our people. With Americans, emphatically, "bayonets think," and "knowledge is power." It is this which gives our armies their power and endows them with that wonderus recuperative energy which has no parallel in European history. It is this superiority which prevents our great victories on either side from becoming decisive disasters. It is this which enables two such armies as have confronted each other for the last three years on the Potomac to still maintain a firm and defiant attitude, in spite of the most desperate efforts of each to destroy the other.

The American mechanic, who acquires a master skill in his business, coupled with intelligence and scientific knowlege, is sure to rise to wealth and distinction. The reverse is the case where there is a lack of intelligence. The public mind in America is always active and progressive. The American mechanic, in order to be up to the times, makes especial effort to keep himself posted. It is always his ambition to advance. Every apprentice, who is wise, looks forward to the time when he hopes to become a master workman, and omits no opportunity to inform himself especially in everything that pertains to his calling. A mechanic should also be posted with regard to progress in general science. He should be ambitious to become intelligent in every matter of industrial interest. No better means to acquire such information is presented than in the periodical publications of the day devoted to the diffusion of practical information. There are many publications, indeed a majority of our weekly and monthly publications are of a class that contains matter which not only imparts an unhealthy excitement to the mind, but oftentimes gives a wrong, and not unfrequently a disastrous bias to the mind of the young reader. There is another class which is devoted mainly to science and practical information, which appeals only to the intellect and judgment, and the influence of which is always elevating and useful to every class of readers. Our mechanics and young men will profit much if they bear these facts in mind and make a wise selection in their reading matter—both of books and periodicals.

New Steamer.—The California Steam Navigation Company intend building a new steamer, to be placed on the San Francisco and Sacramento route. The boat will be larger than the Chrysopolis, and cost about $250,000.

Death of an Eminent Inventor.—Mr. Samuel Hall, of Nottingham, England. and one of the most distinguished of English inventors, has recently deceased, at the advanced age of eighty-two. Mr. Hall has rarely been excelled in inventive genius of a useful character. His inventions were chiefly the results of scientific investigations, and have been acknowledged of vast importance to British manufactures. The greatest triumph of his genius was the "gassing" of lace and the bleaching of starch—processes absolutely essential to the perfection of fine cotton fabrics. The gassing process consists in the passing of a flame of gas through the insterices of the lace, and by which the sheet of lace which entered the flame opaque and covered with loose fiber, issued from it bright and clear, and equal in appearance to the fine thread lace made from linen, on the continent. This invention elicited much interest at the time of its introduction. Mr. Hall also claims numerous engineering patents, by one of which steam was condensed and returned to the boiler by passing it through pipes immersed in cold water. By this means incrustation from the use of sea-water was avoided, and a great saving of fuel and cost of repairs effected. The combustion of smoke was also among his inventions. He thus labored for the benefit of mankind with devoted constancy to the end of his protracted life. A writer in noticing his death pays him the following eloquent tribute: "He had in a large measure the genius of the mechanician, and belonged by nature to that illustrious line [Mechanics] which has in all ages bequeathed the heritage of power, and to which the world looks for her most special triumphs."

Useful Invention.—An invention has recently been made in London by which common plaster of Paris casts may be hardened to the consistency of firm marble. The process consists in submitting the articles to a bath in a mineral solution, to be continued for several days. The sulphate of iron in solution, or the cyanide of potassium, alumina and lime-water will answer for the hardening bath. The articles after being immersed for some days must be taken out and dried. Soft gypseous limestone, which may be easily formed into artistic shapes, may be then hardened so as to withstand the most severe exposure to the weather. This invention might be most advantageously employed by marble workers, for ordinary tombstone ornaments, etc., which might thus be readily formed, at small cost, and with more artistic effect than the uncouth efforts in that direction which too often disfigure, rather then ornament the resting places of the dead. A patent has been taken out for this invention in England, but none, we believe, in this country.

The Value of Patent Rights in many departments of industry is beginning to be sensibly felt in the Eastern States, where so many persons have been suddenly called from the ordinary fields of industry to fight the battles of their country. The field for profitable invention was never so ample as now, and the want will be felt for several years to come. We must now make especial efforts to accomplish by mechanical means as much as possible of what has heretofore been done by the slower process of hand labor. Let mechanics, and especially inventors, bear these hints in mind, and make special efforts, at this time, to benefit the world and in so doing to enrich themselves.

Machinery of the Human Form.—Very few mechanics are aware how much machinery there is existing, and in constant action, in their own bodies. Says a popular writer, not only are there hinges and joints in the bones, but there are also valves in the veins, a force pump in the heart, and curiosities in other parts of the body equally striking. One of the muscles of the eye forms an actual pulley. The bones which support the body are made precisely in that form which has been calculated by mathematicians to be the strongest for pillars and supporting columns—that of hollow cylinders.

Further Particulars of Government Experiments in Using Hydro-Carbon Oils for Generating Steam.

A few weeks since we made a brief notice of the Reports of the Commissioner appointed by the Naval Bureau for investigating by actual experiment into the economy and practicability of using the hydro-carbon oils (common crude coal oils) for the generation of steam. Since that time we have met with some further particulars, although the full report has not yet come to hand. [If it should be in the possession of any party in this city, we would be extremely obliged for a loan of it for a few days.] It appears that the method employed, as per the direction of the Department, was the process invented by Messrs. Shaw & Linton, of Philadelphia. The Commission made a series of careful experiments extending over a period of five months, which were highly satisfactory. The following extracts from their report are all which we have yet met with:—

"The volume of flame was so great as to pass entirely through the tubes of the boiler, and heat the smoke-pipe red-hot for several feet from the base. in consequence of which the maximum amount of combustion and evaporation was not reached, in the use of petroleum.'

The evaporation in favor of petroleum was 103 per cent., as shown by the report; the same boiler being used with the best anthracite coal, and under precisely the same condition.

"The time of generating steam from water of equal temperature to 20 pounds pressure above the atmosphere was, for the oil, an average of 23 minutes; and for coal 60 minutes; or in favor of the oil 114.3 per cent."

"The time from full operation for the complete extinguishment of the fire in the use of the oils, was about sixteen seconds. One of our iron-clads or naval steamers, by its successful use as suggested in the experiments so far as tried, would be enabled to keep the sea under steam three times as long, with less labor and greater convenience as compared with the use of coal, equal weights of each on board being considered."

The advantages above enumerated are highly important, and if fully sustained by subsequent trials cannot fail to effect a complete revolution in the mode of generating steam, especially upon sea going vessels, where economy of stowage of fuel is of the utmost importance. Sufficient confidence already appears to be felt in the economy and practicability of this method of generating steam for commercial purposes, to induce the formation of a company in New York for the purpose of applying it to an ocean steamship. Government, acting upon the suggestion of its Commission, will undoubtedly apply it to one or more of our first class ocean steamships of war, where, if anywhere, it must prove most especially serviceable; so that we are in a fair way to learn, at an early day, what there is in this apparently important discovery. We gave, in the recent issue already alluded to, what appears to be reliable data with regard to the advantages which oil possesses over coal, in point of economy even. California would be most especially benefited by this discovery, should it prove what it now appears to be. There is little doubt but that explorations, now in progress, will soon develop an extent of hydro-carbons on this coast unequalled, either in accessibility or extent, by any other region on the globe.

The Largest Chains in the World.—The largest chain cable ever manufactured was used for raising the Russian ships sunk at Sebastopol. It was 200 yards long, each link weighing 300 pounds, and each link was tested with a strain of 500 tons. It was manufactured at the Reading Forge, Pa. The great chain stretched, in the Revolution, across the Hudson river, at West Point, to prevent British vessels from ascending the river above that point, was only half as heavy and strong as the one at Sebastopol. The largest chain cable ever manufactured for a merchant vessel, was the one for use on board the U. S. mail steamship Adriatic. This cable was forty yards long, each link weighing fifty pounds—a mere watch-guard chain compared with that employed at Schastopol.

Patent Department.

No patents were issued from the Patent Office to California inventors during the week ending Dec. 22, 1863—the latest dates of the officially published list which has been received at this office. We subjoin our weekly record of late and important inventions :—

Gunpowder.—A patent for a new gunpowder, intended for artillery,has been taken out by W. Spence, London. The patentee puts into a vessel thirty-eight parts in weight of water, and two parts in weight of finely pulverized charcoal, which are to be thoroughly boiled together; he then adds twenty parts in weight of chlorate of potash, and six parts in weight of a mixture of two parts finely pulverized charcoal and three parts of the nitrate of lead, or saltpeter, the whole thoroughly mixed. After this there is added seven parts by weight of fine sawdust, and the whole is then boiled until all the ingredients are incorporated. The mixture is then dried in open pans heated with steam, and it is granulated in the same manner as common gunpowder.

Riveting Iron Ships.—At a late meeting of the Liverpool Polytechnic Society, Macfarlane Gray explained a steam riveting machine for employment upon ships' sides, bridges, &c., which he has patented. The machine is suspended by a lanyard over a ship's side, and can be moved from point to point as may be required. The apparatus by which the rivets are driven is worked by steam, and so rapidly is the operation performed that at a trial three rivets were fixed in 25 seconds. There are two or three variations of the same machines for different purposes, and a chisel can be attached by which the heads of the rivets are pared off with as much ease as though they were of wood.

Invention to Prevent Railway Accidents.—One of the Philadelphia city railway companies has placed an apparatus on their cars, which, it is expected, will prevent many accidents. It consists of a fender placed in front of the wheels, and brought down close to the rails. A strong spring allows the machine to pass over a permanent obstruction, but any movable thing is at once pushed off or along the rail in front of the car. Experiments have demonstrated that a foot or hand placed on the rail is at once pushed aside, without stopping the car and without injury to person. This machine will also remove snow and other obstructions which may impede travel or throw cars from the track.

India-rubber Shirt Collars.—Linen, cotton, paper and steel collars are now made, and to these, vulcanized India-rubber collars have been added by W. J. Smith, of Sale, England, who has taken out a patent for them as a new article of manufacture. He states that suitable patterns may be painted or printed on the collars, either before or after they are cut from the sheet, and they may be made white, or colored, or embossed. Cuffs and wristbands may be also made of the same material.

Improved Armor Cladding.—C. W. S. Heaton, of Illinois, has invented a new system of armor cladding for war vessels, which, by experiment, has given great satisfaction. The system consists in overlaying armor with wood or other yielding facing. The inventor's theory is that the exterior yielding coating offers a gradual resistance to the blow of the shot, and that the penetrative force of the same is thereby greatly lessened, by being distributed over a larger surface of iron. Tests were made at the Washington navy yard, not long since, which resulted very favorably to the system. By this invention vessels can be clad so as to dispense with a great deal of plating now carried, by reducing the thickness of iron and using in its stead the layer of wood outside of the heavy iron armor. The Quintard iron battery Onondaga is plated in this manner, and it will not be long before she will have an opportunity to test under fire this style of plating.

A sawmill on a new plan has just been put in operation at Cheshire, Mich., by J. G. Lindsay, the inventor. The saw works horizontally, cutting the lumber from the top of the log, and after passing through the log it is turned over, the carriage is started the other way, and the saw works back again, cutting the log as before.

The Mining and Scientific Press Patent Agency,

OFFICE, 57, GOVERNMENT HOUSE, SAN FRANCISCO.

Information About Obtaining Patents.

The Patent Law Amendment Act, of March 4th 1861, and March 3d 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent? A positive answer to this question is only to be had by presenting a formal application for patent to the Government,embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the Mining and Scientific Press. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Preliminary Examinations.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search, made at the U. S. Patent Office, Washington, through the medium of our associate in that city, to ascertain whether among all the patents and models there stored, any invention can be found which is similar in character to that of the applicant. On the completion of this special search we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollars. This search, though it involves the expense just named, will usually prove satisfactory. If the same device has been before patented, the time and expense of constructing models, preparing documents, etc., will in most cases be saved; if the invention has been in part patented, the applicant will be enabled to modify his claims and expectations accordingly. Many other obvious advantages attending the Preliminary Examination; although the strictest search does not always enable the applicant to know positively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publication; or some other person has been previously rejected on an analagous device; or some other invention for a similar purpose, but partially resembles the applicant's in its construction; or the Government makes an unjust or uncommon decision. Against none of these contingencies does the Preliminary Examination provide; it will, however, generally inform the applicant whether an improvement similar to his and used for the same purpose has ever been patented or not in this country.

Persons desiring the Preliminary examination are requested to remit the fee ($10), and furnish us with a sketch and description of the invention.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian, Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of governments that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues.—If the application is rejected we cause a thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have excess to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client. For this service we make no charge. If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The laws requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: Dewey & Co., Mining and Scientific Press, rooms 56 and 57, Government House, corner of Sansome and Washington Streets, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail.—The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due, and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued, the applicant will be notified to remit the last installment of the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Return of Models.

Under the new law, if the applicants case has been rejected he is entitled to withdraw his model from the Patent Office.

This law applies to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expense

Application for Patents, Designs, Trade-Marks, Labells, etc.

Under the new law patents may be taken out for any new form of any article, also for tools, patterns, castings, machine-frames, stove-plates, borders, fringes, all new designs for printing, weaving or stamping upon silks, calicoes, carpets, oil-cloth, prints, paper-hangings, and other articles. Trade-marks, labels, envelopes, boxes and bottles for goods, may also be patented; likewise all works of art, including prints, paintings, busts, statues, bas-relief, or compositions in alto, or basso relievo, new dies, impressions, ornaments to be placed upon any article of manufacture, architectural work, etc.

Our facilities for the prompt preparation and securing of patents are of the most extensive character and our charges are very moderate.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the tariff of fees established by law:

On every application for a design, for 3½ years and six months	$10
On every application for a design, for seven years	15
On every application for a design, for fourteen years	30
On every caveat	10
On every application for a patent	15
On issuing each original patent	20
On filing a disclaimer	10
On every application for a re-issue	30
On every additional patent granted on a re-issue	30
On every application for an extension	50
On the grant of every extension	50
On appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, D. C.	25

Infringements.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunction from the Court, to an arrest of or prohibition from the employment of his machinery, shop, works, factory and men in production of the article.

In addition to injunction the infringer is liable to be mulched in treble the amount of damages awarded by the jury. The maker, the workman, the seller, and the purchaser, if a user, are all liable either collectively or individually.

Having access to all the patents, models, public records, drawings and other documents pertaining to the Patent Office, we are prepared to make examinations and give opinions upon all infringement questions, advise as to the scope and ground covered by patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Appeals.

In rejected and other cases, the new law provides for an appeal from the Examiner-in-chief to the Commissioner in person, on the payment of a fee of twenty dollars. A further appeal may be taken from the decision of the Commissioner to the U. S. Court, of the District of Columbia. These appeals are heard by any of the Judges before whom the applicant elects to bring the case. No Jury. All the papers, models, etc., are sent by the Commissioner to the Judge, who then reviews the case, and either sustains or reverses the Commissioner's decision.

The party taking the appeal pays an additional fee of twenty-five dollars. The Judge appoints a day of hearing. The applicant can appear in person or by counsel to state his case and file a written argument. Five days are allowed the opponent to put in an answer, and a similar period to the appelant for a closing reply.

Many important cases are brought before the Judges on appeal and the decisions of the Commissioner are not unfrequently reversed. We have had successful experience in conducting these appeals, and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, Government House, corner Sansome and Washington streets, San Francisco.

Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

C. W. M. SMITH. W. D. EWER. A. T. DEWEY.

DEWEY & CO., Publishers.

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AMERICAN AND FOREIGN PATENTS.—Letters Patent for Inventors can be secured in the United States and foreign countries through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past year.

FAVORABLE TO INVENTORS.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the MINING AND SCIENTIFIC PRESS, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

San Francisco:
Saturday Morning, February 20, 1864.

A MINING SCHOOL WITHIN OUR REACH.

The establishment of a school for the purpose of teaching the sciences hearing upon mining and agriculture is attracting considerable attention at the present time. It is a step which, if well directed at the outset, cannot fail to produce important and beneficial results; while, if otherwise initiated it can result only in failure, or at best, but imperfect success. The present straightened condition of our finances forbids the expectation of anything like an adequate especial appropriation for such an institution as has been proposed, for some years to come; yet the wants of our mining community demand that at least some preliminary steps should be taken in the matter by the present Legislature. At least two years must elapse before any active measures can be be inaugurated towards the establishment of a school upon the plan proposed in the Commissioners' Report, now before the Legislature. In the mean time we see no reason why the Legislature now in session may not make some arrangements by which suitable rooms can be prepared for the temporary reception of the State Geological Cabinet, and for a small class-room, or rooms, provided with a few of the most essential apparatus and and other requisites for the instruction of what may, perhaps, be a preparatory class for the more advanced school in contemplation. The cost of carrying out such a project would he but trifling, and might well be left, under a limited appropriation, in the hands of the Commission proposed in the Report now before the Legislature.

It is a matter of utmost importance that an elementary mining school should be established at once, in this city, where a good practical miner may in a few months acquire a fair amount of general knowledge, bearing upon his business, in addition to his already acquired skill and by which he may be enabled to form a tolerably correct judgment with regard to the principal minerals, and accomplish the simpler processes of assaying usually required in the ordinary course of prospecting. Hundreds of miners visit this city every season, and spend quite time enough here, and have sufficient leisure, to acquire an amount of information in that direction which would be of great benefit to them on their return to the mountains. The need of such a school is daily impressed upon us, by the scores of miners who are constantly calling at this office, during their occasional visits to the city, desiring books, papers, and other means of information which may he useful to them in their mining operations.

Of course such a scheme as the one here suggested differs entirely from the proposed institution of a college of mines, or "polytechnic school" of high grade, where geology, chemistry, mechanics, physics, botany, natural history, mineralogy, metallurgy, mining, agriculture, surveying, etc., etc., should be taught by a competent corps of professors and lecturers. But the project here proposed, need in no way conflict with the carrying out of the proposed higher grade of school. It may either be made the basis of that institution, or a preparatory school for it; or it may, at the proper time, be discontinued, and the material which may have accumulated, transfered to its more pretentious successor.

In most European mining districts elementary schools of this description have been established, generally having no connection whatever with the higher grade of mining schools. They are usually located convenient to the mines, and are resorted to chiefly by working miners, or employed for educating a class of men to become trustworthy and intelligent agents and under overseers. An institution of this class, and located in this city under the control, at first, perhaps, of a single instructor, is one *just suited to the present and immediate wants of the great majority of our citizens*, and it is an institution entirely within our pecuniary reach. The appropriation needed for such an institution would be very small. A moderate amount of apparatus, only, would be required, especially to start with, and a collection of minerals for ordinary use, not necessarily complete, but such as could readily be collected from the numerous mining offices in this city, would be all that would be needed. Of course the State Cabinet should he made available, under proper restrictions. Such a school would be of incalculable benefit to prospectors; its beneficial effects would soon be felt throughout the State, and its importance become more and more apparent as it progressed. One of its earliest effects would be to free our community, in a great measure, from the mistakes of honest ignorance, as well as from the vexatious impositions of shallow pretenders, who have not the shadow of scientific acquirements, or a moity, even, of practical experience, to guide them, but who still continue to bamboozle adventurers, and overwhelm confiding capitalists with a weight of words and assertions sufficient to relieve them of thousands of dollars, which are worse than thrown away, upon foolish or criminal mining schemes.

There is a flourishing school now in existence at St. Etienne, in the Department of the Loire, France, which was founded in 1816, upon a similar plan to the one here suggested, and which has been advanced from an original elementary grade to one of a very high order. The annual grant upon which this school is based, never reached $4,000, including about $1,200 for rent; and yet it has succeeded in securing large collections of every kind, a fine library, chemical laboratory, etc. The school is now under the chief direction of the Inspector-General of the Department, aided by three engineers of mines and two or three other assistants. Of course it has received private aid from time to time, to a small extent. Beyond this it has been self-sustaining. Numerous other schools, which have now arrived to positions of great usefulness, might also be enumerated, which have been very successfully established on very slender pecuniary foundations. We have no lack of men to place at the head of such a school, from among those who have had experience in similar institutions abroad.

We sincerely trust the Legislature will take this matter in hand, and look into it carefully from the stand-point here proposed. We feel confident that so small an amount as five or six thousand dollars, even, can he most usefully employed in this way, and made to benefit the State many an hundred fold ere that body is again called to assemble in the State Capitol.

A Significant, as well as "Important" Mining Advertising Bill.

The *Alta* of Thursday last claims to give the principal features of a Bill which has been introduced into the Senate, directing how and in what class of papers certain advertisements by mining companies shall be made. While the bill contains some good provisions, there are others which are not only cumbersome but also decidedly objectionable. The precise form in which the notice shall be published is given in the bill; of course the least accidental variation from the form, however insignificant, would invalidate the entire proceedings. It is proper that the name of the company should be given in full, together with the location of the mine and notice of the day when the delinquent list shall be advertised. But we see no reason why a secretary should be held to a certain form of words—no good can surely come of it. The main object of the bill would he better understood if it should read somewhat as follows: "A Bill for the Benefit of the Alta California Newspaper, requiring that all Mining Secretaries shall publish their advertisements at exorbitant rates in said paper or some one of its daily cotemporaries."

The bill has undoubtedly been got up for this especial purpose, and although it was introduced by Mr. Shafter, it clearly shows its paternity to have been derived from the *billious* John S. Hittell, editor of the *Alta California*, member of the California Legislature, etc., etc.

By the provisions of the Bill advertisements of assessments are to be published only every Saturday —*but in a daily paper*—if one is published near the companies principal place of business. Why in a *daily paper*, if but one publication a week is needed? Is it intended *to make a charge for daily insertion*, when the advertisement is published in only one issue of the week? Or does our neighbor need protection from a growing cotemporary whose Saturday's issues may more than double his own, and who, he is fearful, may get a fair share of its legitimate advertising business.

Of course no Legislature would think of incorporating such a stultifying provision in a bill of this kind. If a mining Secretary is requested to advertise but one day in a week why compel him to insert that advertisement in a daily sheet which publishes fifty columns of advertisements to ten of reading matter, in preference to a paper devoted expressly to the interest which forms the subject matter of the advertisement, and which publishes fifty columns of reading matter to ten of advertisements, and is so much the more valuable as an advertising medium. We presume the Legislature will not pass any bill whose chief aim and object is to force mining Secretaries to publish their advertisements in daily papers, when oftentimes weekly papers will better answer their purpose, and save a large amount of unnecessary expense to the companies.

The chief points of this bill appear to be to devise ways and means for extracting money from the pockets of mining shareholders for the benefit of the daily papers. It will be noticed that the bill allows the *short* assesment notice to be published but once a week, but requires delinquent notices, which are usually from three to ten times as long, to be published *daily*. Would not the public be better served and far more economically too, if the former notice was published daily and the latter weekly—say for four weeks, or on four successive Saturdays? In short would it not he more advisable to leave this whole matter of "where to publish" to the discretion of the Secretaries and Directors? No complaint, to our knowledge, has ever been made of any injustice being worked by the present law in this particular. Let it be required that the locality of the mine be clearly defined, and leave the balance to the judgment of the proper officers, and no trouble need be apprehended.

One of the provisions of the bill allows owners of

stock sold for assessments, 90 days for redemption, on the payment to the Secretary of the amount of assessments together with 50 per cent. additional. This clause would no doubt prove a prolific breeder of fat advertisements. It might work well in some cases, but in most instances it would only have a tendency to throw hindrances in the way of collecting assesments, and to that extent retard prospecting operations. The author of the bill evidently had one, if not both eyes, on the important matter of providing means for the payment of the advertising, as he has incorporated a provision providing that five per cent. additional to the assesments and all other costs shall be raised for advertising. The *Alta* very properly remarks "This act may be regarded as the most important of the Session." It certainly will be the "most important" to the pecuniary interests of that paper, should it pass.

Does the daily press of this city stand in need of Legislative aid in enabling it to retain the cash-in-advance, exorbitant rates which they are now demanding for the mining patronage with which its columns have been glutted for the past year? We are always happy to observe the legitimate prosperity of our fellow craftsmen, but we have no sympathy with the underhanded manner of forcing patronage, as evinced in the construction of this bill.

We presume the Legislature will still continue to have faith enough in the intelligence and judgment of our mining directors and Secretaries to concede to them the privilege of exercising their judgment in the selection of papers in which to publish their advertisements.

MINING SHARE MARKET.

The unhealthy excitement in the Mining Share Market, in speculative stocks, continues unabated. The panic in the Real del Monte, is without a parallel in the history of stock transactions in this city. The excitement with regard to the Lady Bryan has also greatly increased in intensity, so far as to produce transactions in those shares, to an extent greater than the entire stock in the mine. The sales of the past week have been $1,160,827 an excess of $177,860 over the transactions of the week previous. Ophir has been more fully dealt in at a material advance; 336 shares have changed hands, at from $1,595 to 1,770, an improvement of over $100 per foot on last week's quotations. A large amount of bullion is coming forward from this mine.

Gould & Curry has been inactive. No sales are reported. These shares are offered at $4,790, a slight decline from previous quotations.

Challar continues inactive at a still further decline; 77 shares only, have changed hands since our last issue. It changed hands at $290, on Tuesday, but found buyers at last evening's board at $210, buyer 30 days.

Savage is inactive. No transactions are quoted.

Daney has materially improved since last quotations, with increased transactions. We quote sales of 953 shares from $95@140, against 672 shares from $85 @125 reported last week. This improvement has been caused by the report that rich rock has again been struck in the mine.

Lady Bryan has been more active than ever, and decidedly the speculative feature of the week. Shares to one-sixth in excess of the entire stock of the mine have changed hands during the week. Opening at about previous figures, it "weakened" considerably towards the middle of the week, rallied again, and finally closed at first figures with a weak market. The reports with regard to the crushing of the ore recently taken out are very conflicting and unsatisfactory.

Overman continues inactive and may be quoted at $130@$450, buyer 30.

Potosi remains firm at $1,300@1,310. North Potosi has found buyers from $53@57½.

North American is less enquired for, but has found buyers at from $102@120, closing with a declining market.

Harmon has again met with a material advance—opening at $30½, with an upward tendency.

Caledonia Tunnel is more active at about last quotations.

Nevada, Justice Ground, has still farther improved. Opening at $175 it advanced rapidly to $225 and 240 on Wednesday, but declined to $200 on Thursday and $190@195 yesterday.

Burning Moscow opened at a decline from previous quotations, with a weak market, but closed more active and with considerable improvement in rates.

Chas. Cany has been considerably enquired after, and generally at an important advance. Opening at $10 on Monday it advanced to 17 on Wednesday, and may now be quoted at from $14@15.

We quote Baltimore American at $44; Pride of the West at from 84@95; Baltic at 162½; Knickerbocker at 32½; Desert at 18; Bullion, G. H., at 60; Sacramento and Meredith at 32½; Moss, Va., at 50; Cosala, Mex., 10; Blue Ledge 9½; Lucerne 15; Rock Island 20; Buraside 16½; Triunfo 22; El Dorado 45; Gray Eagle 22½; Crown Point Ravine 16½; Crocket Con. 14; Mt. Davidson 2¼; Benjamin 8½; Crocket 20; Mountain View, S. R., 18, b 60, and Broderick, Echo cañon, 12.

Imperial may be quoted at $170; Uncle Sam at 500; Hale & Norcross 700; Victor Hugo 15; Independent, G. H., 37; all inactive and but little inquired after.

Lafayette, G. H., has met with purchasers at from $15@22½.

We quote East Lynne, O. R., at $15½; Amador, R. R., at $170, and Josephine (copper) at 5¾.

With the exception of Real del Monte but little is doing in Esmeralda stocks. Thirty-two shares of Antelope have changed hands at $200 per share; 55 shares of Silver Hill from 13@14; 25 of Ironsides from 12@12½; 25 of Utah at 29@30. Wide West is quiet at from 25@28½.

Real del Monte, still continues a leading feature in the market. The transactions of the past week have exceeded those of the week previous, without any material change in the figures. This mine appears to be the enigma of the day, which the Stockholders, however, have determined to solve, as will be noticed by the report, elsewhere, of their meeting last evening. Bullion to the amount of $86,000 has been received from the mine, thus far, during the present month.

WASHOE STOCK MARKET.

Collated from the Regular Reports of the Virginia Daily Union to Latest Dates.

Gold Hill District.—Alpha, $1,050 asked. Ama-2a. Astor, 15 bid 20a. Branch Mint, 13b 17a. Baltimore American, 43b 55a. Crown Point Ravine, 10b 16a. Colorado, 3b 9a. Clinton & Hubbs, 15b. Diligent, 8a. Frankell, 5b 14a. Golden Horn, 4b 5a. Golden City, 4a. Golden State, 10a. G. H. Quartz Mill, 300a. Gold Hill and Virginia Divide, 4b 30a. Grizzly, 5b 10a. Hawkeye (Original,) 57b 70a. Harold, 1b 12a. Jim McClellan, 1b 3a. Justice, 192b 200 a. John A. Logan, 20a. Keystone, 31b 40a. King Solomon, 5b 9a. Knickerbocker, 26.50b 30a. Leon, 5b 13a. Louisville, 20a. Mary Ann, 40b. Mechanics, 3a. North American, 115b 121.50a. New Oregon, 16b 20a. Napoleon, 15a. Nevada, 6b 15a. Oneoto, 15b 20a. Pond, 10 a. Rock Island, 17.50b 20a. Stevenson Kehoe, 4b 20a. Sweezy, 80 b 120a. Sam Patch, 3a. Tontine, 18b. Uncle Sam, 380b 625a. Cuba, 2b, 3a. California, 1½a 4b. Virginia Express, 3b. San Bernard, 5a 12b. Bob Walker, 4a. Monitor, 5a. Dr. Perry, 6a. Belle Vernon, 10a. Coppers, 8b. Dardanelle, 15a. Effinghant, 12a. Globe, 10b 10a. G. H. Union M. M. Co., 1b 75a. Hartford, 7a 7b. Leon 18a. Miantonomah, 5b 14a. Overman, 460b. Original Crœsus, 3b 4a. Superior, 260b. San Francisco, 2 50b. Sapphire Mill, 150a. Schiller, 13b 17a. Yellow Jacket, 800b 1.000a. Yolo, 12a. Wiscoasin, 30a. Woolsey, 4b. Washington, 5b 15a. Arizona, 14a. Abell & Keys, 5a. Belcher, 1,300a. Combined Effort, 10b. Consolidated Company, 50a. Caledonia Tunnel, 35a. Cherokee, 3a. Crescent, 5b 8a. Carson, 5a. Hawkeye, No. 1, 110b 140a. McClellan, 1b 2.50a. Jewett & Sheppard, 2b 4a. Jackson, 35a. Kentucky, 5b 5a. Michigan, 55a. Massillon, 1b 8a. Mayflower, 7a. Narragansett, 5a. Republic, 8a. Utah, 2b. Uncle Sam, Senior, 18b. Vesuvius, 10b 18a. Vulcan, 5a. Argo, 8a. Pride of America, 3d. Pilot, 5a. Bullion, 52b 70a. Cincinnati, 12a. Dell 30a. Lafayette, 12b 30a. Harrison, V. I., 20b. Milton, 31b, 55a. Nightingale, 6a. Orion, 8a. Pontiac, 10a. Roman Eagle, 1.50b 12a. Victor Hugo No. 2, 4b 20a. West Point, 8a. White Dove, 12a. Atlantic, 3b. Contraband, 2b 6a. Golden Swan, 25b. McMeans & Williams, 6b. St. Charles, 5b 12a. Overman, 375b 500a. Baltic, 150a 180a. North America, 140b 140a. Virginia Express, 2.50b 5a. Champion, 2.50b 6a. Eureka, 5b. Excelsior, 25a. Gilmore, 5b 7a. California, 2½b 4a. Costa Rica, 4a. South Midas, 10b. Tyler, 1b 6a. Princess, 6b 15a. Baton Rouge, 2b 20a.

Virginia District.—Burning Moscow, $70b 75a. Grass Valley, 32b. Honduras, 7.50b 10a. Kenoshn, 6b 6.50a. Moss, 45b 70a. New Orleans, 5b 5a. Pride of Washoe, 5b. Utah, 110a. Wm. Penn, 10a. Washington, 5.50b 5.50a. Virginia Hill, 4b 7a. Shamrock, 30a. Hazel Green, 3b 6a. Ellen & Margaret, 2b 4a. Allen, 30b 45a. Birdsall, 5b 14a. Iowa, 150a. La Crosse, 5b. Osceola, 16b. Orleans Flat, 8b. Seneca, 11b 20a. Sutro, 12a. Sierra Nevada, 105a, St. George, 12.50a. United States, 5a. Bajazet & Golden Era, 45 a. North Potosi, 52.50b. Winfield Scott, 2b 2½a. Grass Valley & Napoleon 4½b 4½a. Independent, 5b. Mount Davidson, 8a. Orleans Flat, 10b.

Flowery District.—Atwill, $10a. Lady Bryan, 65b 65a. Uncle Sam, 4.50b 10a. Desert, 16b 21n. International, 6a. Capitola, 15b 25a. Harrison, 2b. Wealth Co., 10a. Yankee Jim, 50c.b.

Devil's Gate District.—Pride of the West, $86b 100a. Daney, 80b 95a. Pioneer, 6b. Gray Eagle, 8a.

Palmyra District.—Rock Point, $15a. Rappahanock, 41b 46a. Star, 25a.

Indian Springs District.—Jackson, $25a. Lyon, 25a. Whitman, 140b 500a. Orion, 8b 18a.

Desert District.—Nevada, $3b 6a. Harrow, 2b 11a. Nevada and Golden Era Consolidated, 2b 6a.

Alpine District.—George Law, $5b 15a. Buckeye, 4b. Mountain Chief, 5a. Crinoline, 5b. Leviathan, 2b 6a.

Reese River.—Douglas, 2b 6a. La Salle, 4b 10a. Alcatraz, 2 b 2a.

SALES SINCE OUR LAST ISSUE.

Golden Horn, 10 at $4; California, 50 at 2; Baltic, 1 at 168; 10 at 160; Moss, 20 at 17; 20 at 20; 10 at 23; North American, 10 at 125; New Oregon, 35 at 15; 5 at 14½; 25 at 16; 10 at 14; Rock Island 23 at 15; 30 at 19 b 30; 5 at 17; 20 at 20 b 30d; 10 at 18; Pony Express, 75 at 5; Frankell, 5 at 8; 25 at 7; 20 at 7½; 10 at 8; Keystone, 20 at 25; 10 at 32½; Overman, 9 at 500; North Ophir, 10 at 4; Lady Esther, 25 at 4; 10 at 2½; 25 at 3; Napoleon, 10 at 10; 10 at 7; Russian, 20 at 2; 10 at 2¾; Branch Mint, 20 at 11; 5 at 13; 20 at 13; Kentucky, 15 at 4; 5 at 5½; 5 at 5; Orion, 25 at 10; Lafayette, 10 at 20; Knickerbocker, 5 at 20; 5 at 20; 10 at 22; 15 at 27; 10 at 30; 10 at 30; 10 at 28½; 20 at 30; Princess, 5 at 9; 5 at 10; Central Park, 10 at 17; 5 at 19; 10 at 15; North America, 5 at 130; 10 at 135; Sam Brannan, 10 at 2; Globe, 5 at 7; 50 at 10; Silver Veil, 20 at 5½; Uncle Sam, 5 at 2; 52 at 2½; Schiller, 5 at 15; 10 at 10; Golden City, 10 at 1; 10 at 1¼; Arizona, 100 at 4½; Honduras, 10 at 8; 20 at 8; Malth Co., 20 at 4; Belle Veraon, 5 at 6; Justice, 5 at 160; Texas, 10 at 6; Vulcan, 10 at 4; Miantomah, 22 at 10; Pride of America, 10 at 3; Lady Bryan, 10 at 60; Burning Moscow, 5 at 70; Hartford, 5 at 70; Sandy Bowers, 50 at 50c.; Rapahanock, 10 at 40; Grant, 50 at 1; Bertrand, 20 at 3; Monitor, No. 1, at 4½; Kossuth, 30 at 4; Pride of the West, 2 at 90; 2 at 92½; Virginia Express, 25 at 1; Original Hawkeye, 5 at 60; Washington, 25 at 4; Astor, 10 at 17½; 5 at 19.

California Academy of Natural Sciences.—We have received Volume III. of the regular annual publication of this Society, containing the proceedings of that body for the year 1863. The work contains a large number of valuable papers on matters of local, scientific interest. The efforts and publications of this Society are valuable contributions to the cause of general science.

California Made.—Mr. H. Herzer, No. 17 Kearny street, in this city, is now manufacturing a very superior article of muffles, crucibles, etc., for assayer's use. Mr. Herzer has recently commenced the manufacture of these articles, and is the first who has attempted anything of the kind in California. The chief portion of the material for this manufacture is found in this State. See his advertisement in another column.

[For the Mining and Scientific Press.]

Signs of the Times.

Montgomery street, which has of late been so crowded by "feet brokers," is being rapidly thinned out, and "feet" room is not near as valuable as it was some weeks ago. The ladies can now run a straight gauntlet through the street instead of being compelled to pursue a zig-zag course, as before. Front street has gone back to its dry goods, its brooms and cod-fish, and thinks the latter does not smell so bad after all; the shoemaker has retired to his bench and taken up his all (awl), and you can have your boots on Saturday at six. The Drayman has bought back his dray; the hodcarrier has taken up his hod and climbed the ladder again; and a carpenter can now be had to do a job at a reasonable price, who would not previously look at anything of less magnitude than a church or village. Lawyers can now be hired to attend to your case, who before would say, "really, we have not time, you must employ some one else." The stool pigeons, the decoy ducks, the setters and bloodhounds, and the vampire bats, have been called in, and the sympathetic bummer, "who was not a broker in fact," who only went into Montgomery street out of pure sympathy for his "friends," even he is gone, and his whistle can now occasionally be heard on the Plaza, which has been so long and so unkindly deserted. The "El Dorado" and the "Pony" are beginning to receive a larger share of that patronage which has been so liberally bestowed upon the "Bank Exchange," "Charley," "Ned," and "Frank." Even the "honest miner" has donned a bran new woolen shirt, sent his new suit of store clothes home by express, bought a new pick and is going back to his mine from whence he came. Mourners can now be hired to attend the funeral of Lazarus, and second hand crape for the occasion can be had of Nicholas Barebones of Bone alley, who is now at his shop during business hours.

The experience of the last few weeks has taught the community a lesson which will not soon be forgotten, especially by those who have dealt "not wisely," but "very much," in stock. We are not jubilant over individual losses, but we think it better for a few to lose than for the whole community to suffer. Men are now beginning to see that their legitimate business is the proper one for them to pursue, and they are returning to their former occupation. We see in it signs of returning health, which in the past has been disturbed by wild and unhealthy excitement. The mining share market will now be turned into its legitimate commercial channel. We have experienced brokers and men of character in sufficient numbers to attend to this business, and these men should weed out the *knave* and *counterfeit*, and then our boards will rival those of New York and London in respectability and numbers.

The mines will be worked by miners and mining engineers without kid-gloves; capital will be used judiciously and economically, where thousands of dollars have heretofore been squandered. As soon as a mine has been developed it will take its place and rank upon the list. Individual enterprise will be fostered and encouraged. The miner will obtain his supplies from the merchant, and the merchant in return will receive the product of the mine as an equivalent, and each will occupy his own sphere of business. By this brief period of excitement, which has so wildly raged upon all classes in the community, a lesson of profit will be learned, which, if it had been delayed longer, would have inevitably carried consternation and financial disaster to all the dearest interests upon our golden coast. ***

La Favorita.—Two weeks ago we had occasion to call attention to some rich specimens from this mine. The company has since received a ton of most beautiful peacock ore, and four bars, smelted from similar ore, at the company's own works at "El Real de la Favorita," near Moutezuma, Sonora. The stock of this company will doubtless rank among that of our best companies, at an early day.

Terrific Gas Explosion in a California Mine.—The Marysville *Appeal* gives the particulars of a terrific gas explosion, which took place on the 9th instaut, in a coal mine recently opened near the foot of the Buttes. A shaft had been sunk about twenty feet, and a tunnel run from the same, also about twenty feet. Inflammable gas had been noticed issuing from the rock for several days, and the precaution had been taken to "fan out" the tunnel. On the day in question, however, it appears that this work had not been thoroughly performed, and a match was no sooner lighted than the whole tunnel burst into a sheet of flame, rushing out towards and up the shaft, followed by an explosion and report equal to that from a six-pounder! Four men were severely injured, one of whom was descending in a bucket. The windlass, though strongly nailed down, was forced up by the explosion ten feet in the air. The man descending was also forced up and out of the shaft. There was one man just at the entrance of the tunnel, and near the bottom of the shaft—the same who lighted the match. He was badly burned about the face, and his hair was completely crisped. It is almost miraculous that both himself and the man descending the shaft were not instantly killed. As it happened, neither of the parties were seriously injured. The men were not aware of the dangerous nature of the gas, although they had previously set it to burning, in small jets, as it issued from the crevices. They "fanned it out" simply *because it smelt bad!*

Coal on the Colorado.—An important discovery of coal has recently been made near La Paz, on the Colorado. There are at present five lodes developed, upon which work is either in actual progress or soon will be. The discovery of this coal in the immediate vicinity of the Colorado copper mines is of great value. The Los Angeles *News* speaks of its importance as follows: "Scarcity of fuel has been the great drawback to the mines along the Colorado river, added to the great expense of procuring supplies for the mines by shipment, the almost positive certainty that all ores would have to be shipped in bulk, has always stared capitalists in the face, and to a great degree has prevented investment and the opening of lodes. Ores can now be reduced to less than one quarter of their weight. Numbers of small lodes have been discovered, which, with plenty of fuel, may be worked with profit; without it, they are valueless. We learn that a quantity of the coal from the discovery above mentioned, is *en route* for this place by the teams of Captain Tyson, and in sufficient quantity for making a thorough trial of its properties."

Meteorological.—Dr. T. R. Kibbe, of Downieville, who makes careful and accurate meteorological observations, and reports the same to the Smithsonian Institute, at Washington, has furnished us with the following notes for January, which appeared recently in the Sierra *Democrat*:—Total amount of water fallen, including snow dissolved, 2:45 inches; snow, 15:00 inches; clear days, 21; temperature of coldest day, 24° above zero; mean temperature for the month—at 2 o'clock P. M., in the shade—55⅔° above zero. The Doctor, under date of Feb. 15th, adds: "The days thus far in February have been of continued sunshine." We are obliged for his consent to furnish us regular monthly reports.

A curious fact has recently been established in some of the communes in France. It has been found that the use of threshing and winnowing machines has produced an immense amount of bronchitis and disease of the throat and chest among the laborers employed, who are exposed to an atmosphere charged with dust, which affects them so powerfully that in some parishes there are whole families of confirmed invalids. To such an extent has the evil gone that the Mayors have issued an order that all laborers employed near this machinery shall work in veils.

Business Cards.

T. C. SANBORN & CO.

Stock Brokers,

No. 630, Montgomery Street,.....San Francisco.

OPHIR SILVER MINING STOCK,
GOULD & CURRY MINING STOCK,
CHOLLAR MINING STOCK,
CALIFORNIA STEAM NAVIGATION COMPANY'S STOCK,

☞ BOUGHT AND SOLD. ☜

jltf.

W. F. DENCKLA. A. L. CHAMBERLIN.

DENCKLA & CHAMBERLIN,

Stock and Exchange Brokers,

No. 413 Montgomery Street,
SAN FRANCISCO.

☞ Deeds, etc., for record in Humboldt County, Nevada Territory, received and forwarded. 1-tf

BENNIE & MORRISON,

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CHAPIN & POND,

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No. 726 Montgomery street, Up Stairs,
5v8-2m SAN FRANCISCO, CAL.

REMOVAL.

J. R. BEARD, STOCK BROKER,

MEMBER SAN FRANCISCO STOCK AND EXCHANGE BOARD,
HAS REMOVED HIS OFFICE TO
5v8-tf No. 707 Montgomery street, Brokers' Block.

Wide West Mining Company.

NOTICE.

The Office of the Wide West Mining Company
Is Removed to No. 113 California street, San Francisco,
6v8-4t JOHN F. POPE, Secretary.

Removal.

M. G. ELMORE,

MINING SECRETARY,

— REMOVED TO —

No. 645 Clay street, between Montgomery and Kearny, up stairs.
6v8-4t

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AT THE SACRAMENTO AGRICULTURAL STATE FAIR FOR THE YEAR 1862.
ALSO; FIRST PREMIUM
At the San Francisco Bay District Agricultural Fair, 1862.
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OFFICE JOBBING, of all kinds, promptly attended to.
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Owen's River Canal Company.

FOR SALE, FOR ACCOUNT OF THE COMPANY, 7,000 SHARES of the above stock, at $1 per share. It is confidently presented to the public as the best investment, for the price, now offered this market.
Office of the Company No. 325 Montgomery street. 1tf

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A. C. MORSE,

Mining and Real Estate Agent,

Office, S. W. corner Pine and Silver Sts., Aurora.

HAVING MADE ARRANGEMENTS WITH MINER S. MARTIN, Esq., one of the principal Stock Brokers of San Francisco, I am prepared to BUY and SELL every description of Mining Stocks in Esmeralda District. tf

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TABOR & HILL

Stock Brokers & Real Estate Agents,

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BUY AND SELL MINING STOCK ON COMMISSION. ARE MEMbers of the San Francisco Stock & Exchange Board, and of the San Francisco Board of Brokers. nov23-tf

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Riehn, Hemme & Co.,

ASSAYERS.

Assays made of Ores, Minerals and Metals.

CHAS. F. RIEHN, late U. S. Branch Mint, gives lessons in Assaying, also in Mineralogy and Chemistry, as far as required to become a practical Assayer.

REFERENCES with permission to Messrs. F. Parrot & Co., R. B. Swain, Esq., Messrs. Alsop & Co., Messrs. Donohoe, Ralston & Co. 1

G. E. MOORE,

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Having established a Chemical Laboratory, furnished with every requisite for delicate Analytical work, is prepared to execute the Assay and Analysis of Ores, Mineral Waters, Guanos, etc., with accuracy and dispatch. No. 612 Sacramento Street.

REFERENCES:—Prof. J. D. Whitney, State Geologist, San Francisco; Alsop & Co., San Francisco; Sather & Church, San Francisco; John Parrott, San Francisco; D. O. Mills, Sacramento. 1tf

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"HINTS FOR PROSPECTORS" free by post. 1tf

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Quartz Mill and Reduction Works

ARE PREPARED TO WORK GOLD AND SILVER ORES, IN large or small quantities.

Working assays made of small lots, and all kinds of ores crushed at short notice.

Our new and complete Machinery, will enable us to give results fully up to the merits of rock.

WHEELER & THAYER, Proprietors.

C. C. JONES, Amalgamator.
San Francisco, Oct. 13, 1863. j2tf

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Copper Crushing and Grinding.

Attend to all kinds of Grinding & Crushing,

—SUCH AS—

COPPER ORES, MARBLE DUST, FIRE-BRICK DUST, DRUGS,

And Feed of all Kinds,

All of which will be Ground at the Shortest Notice.

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TERMS—Twenty per cent in cash and the balance on a credit of several years.

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To Quartz Miners.

ALL PERSONS INTERESTED IN MINING MACHINERY ARE invited to call at Donahue's Foundry and examine my improved Amalgamator. It is unquestionably superior to anything now known for amalgamating Silver and Gold. It works 1000 pounds at a time, and will amalgamate over three tons a day. By the motion of the revolving muller, the pulp is drawn through its centre and passes under it, between the grinding surfaces, to the circumference; from whence it passes again over the muller to the centre, through the holes and between the grinding surface to the circumference as before. Thus a constant circulation of the pulp is kept up, bringing the particles of ore again and again under the muller, and reducing the whole mass to an impalpable powder.

No quicksilver lies between the surfaces to be ground, but at the circumference and centre of the pan where the metal must pass through it as the pulp circulates.

A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S. Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.

sep21

STOCK EXCHANGE.

The unparalleled development of the Mineral Resources of the Pacific Slope, and the daily increasing commerce of the city of San Francisco, have rendered a

PUBLIC EXCHANGE,

Conducted on the same fair business principles that characterize similar institutions in Europe and America, an urgent necessity in this city.

The public are therefore informed that a suitable building has been erected, at 612 and 614 Montgomery St., in which will be held Daily Sessions for the sale of Stocks, Bonds, Securities, Specie, etc., under the following Board of Directors, and subject to the following Rules and Regulations:

Board of Directors.

GEORGE W. DART, President.

WALTER SPARROW,	E. H. WILSON,
JOSEPH CLOUGH,	R. O. STURTIVANT,
HENRY WILLIAMS,	D. J. O'LLAHAN,
E. FAVILLER,	EDWARD FLANAGAN,
THOMAS WALLACE,	J. DE STA. MARINA,
M. G. ELMORE,	E. W. LINSLEY.

Rules and Regulations.

1. The business of the Exchange shall be managed by a Board of thirteen Directors, to be elected annually, and to whom application for membership shall be made. Any question or issue raised touching contracts, made at the Board, their validity or meaning, shall be referred to a committee of five, for investigation and final decision.

2. The Sessions of the Board shall be from 12 to 1 P. M., and from 3 to 4 P. M., each day, Sundays excepted.

3. Only members of the Exchange shall offer Stocks, etc., for sale.

4. The public may bid upon and purchase any Stocks, Bonds, Securities, Specie, etc., that may be offered for sale.

5. Buyers of Stock who are not members must either make a deposit of Ten (10) per cent. of the purchase money at the time of sale, or have their contracts endorsed by a member.

6. Should any member or party refuse to fulfill a contract entered into by him at a Session of the Board, he shall thereafter be debarred from all privileges of the Exchange, at least until he shall have specially performed such contract.

Commissions on Sales

Of United States, State, County and City Bonds; Railroad, Steamboat, Telegraph, Gas, and Water Stocks; Certificates, Bills of Exchange, Treasury Notes, Specie, etc., one-half of one per cent.

Commission on Mining Shares:

Sale at $1 up to $10	$0 25 per foot
Sale at $10 up to $25	50 per foot
Sale at $25 up to $50	1 00 per foot
Sale at $50 up to $100	1 50 per foot
Sale at $100 up to $200	2 50 per foot
Sale at $200 up to $400	5 00 per foot
Sale at $400 up to $600	6 00 per foot
Sale at $600 up to $800	7 50 per foot

From $800 to $3,000 per foot, one per cent. Anything above $3,000 per foot, three-quarters of one per cent. 7v8-tf

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Stock Reports.

SAN FRANCISCO STOCK BOARDS.

Sales by the San Francisco Stock and Exchange Board, San Francisco Stock Exchange, and the Pacific Board of Brokers.

[Revised for the Mining and Scientific Press.]

SATURDAY, FEBRUARY 13, 1864.

S. F. STOCK AND EXCHANGE BOARD.

Charles Cany, 55 shares at $10 per share; 10 at 11, buyer 30 days.
Adriatic, 20 shares at $8 per share.
Wide West, 10 shares at $..3½ per share.
Imperial, 50 shares at $100 per share, regular way.
Real del Monte, 5 shares at $80 per share; 15 at 79; 10 at 84, b 30; 10 at 82½, b 30; 10 at 85, b 30; 5 at 82; 5 at 82½.
Utah, 10 shares at $30 per share, b 30; 5 at 29, b 30.
Silver Hill, 25 shares at $14 per share.
Pride of the West, 10 shares at $84 per share; 10 at 82½.
North American, 10 shares at 127½ per share, seller 5; 10 at 125; 10 at 130, b 30; 60 at 122½, s 5; 70 at 122½; 10 at 120, s 30.
Baltimore American, 16 shares at $43 per share; 5 at 44; 45 at 46½, b 30.
Victor Hugo, 20 shares at $15 per share.
Antelope, 22 shares at $200 per share.
Baltic, 30 shares at $175 per share, b 30.
Caledonia Tunnel, 15 shares at $27½ per share.
Rock Island, 9 shares at $18 per share.
Lady Bryan, 21 shares at $54 per share; 50 at 56, s 30; 10 at 60, b 30; 10 at 59.
North Potosi, 40 shares at $60 per share; 2 at 65.
Knickerbocker, 40 shares at $35 per share; 10 at 32½.
Desert, 45 shares at $18 per share, s 30.
Bullion, G. H., 20 shares at $61 per share.
Seneca, 21 shares at $19 per share; 10 at 20.
Hale & Norcross, 10 shares at $700 per foot.
Daney, 40 shares at $100 per foot, s 3; 20 at 115, b 30; 100 at 110.

AFTERNOON SESSION.

Lady Bryan, 10 shares at $59 per share, s 30; 55 at 60½; 10 at 59, s 30; 30 at 60, s 30; 20 at 65, b 30; 10 at 65, b 25; 15 at 62½.
Nevada, Justice Ground, 20 shares at $180 per share, b 30; 25 at 175.
Adriatic, 20 shares at $8 per share.
North Potosi, 10 shares at $57½ per share.
Charles Cany, 50 shares at $11 per share.
Real del Monte, 10 shares at $82½ per share; 10 at 85; 5 at 93, b 30.
Daney, 28 shares at $95 per foot, r w; 40 at 120.
Potosi, 2 shares at $1300 per foot.

PACIFIC BOARD OF BROKERS.

Baltimore American, 5 shares at $43 per share.
Lady Bryan, 20 shares at $57½, b 30, n d; 10 at 55; 20 at 56; 15 at 60, b 30; 20 at 60; 40 at 62½, b 30.
Harmon, 10 shares at $18½ per share; 10 at 17; 20 at 18, s 30; 3 at 20.
Real del Monte, 5 shares at $82 per share.
Belmont, 50 shares at 9¾ per share, s 30.
Sierra Nevada, 5 shares at $90 per share, s 30.
Blue Ledge, 15 shares at $10 per share; 10 at 15, b 90.
East Lynn, 45 shares at $9 per share; 25 at 10, b 30.
Uncle Sam, 3 shares at $500 per share, s 5.
Kit Carson, 10 shares at $4 per share.
Charles Cany, 10 shares at $10¼ per share.

Sales by the S. F. Stock and Exchange Board,.....$100,939 00
Sales by the Pacific Board of Brokers,..... 13,235 00

Total sales of the day, by both Boards,..... 114,174 00

MONDAY, FEBRUARY 15, 1864.

S. F. STOCK AND EXCHANGE BOARD.

Charles Cany, 9 shares at $10 per share; 20 at 10¼.
Real del Monte, 5 shares at $80 per share; 10 at 86; 5 at 93, b 30; 20 at 87½; 25 at 94, b 30; 43 at 88; 10 at 92½, b 30; 10 at 87; 10 at 91 b 30.
Lady Bryan, 50 shares at $71 per share, b 30; 20 at 70, s 30; 75 at 72; 20 at 76, b 30; 50 at 70, s 10; 10 at 70; 10 at 69; 26 at 68; 30 at 65; 100 at 69, s 30; 45 at 64; 30 at 65; 10 at 64½; 30 at 63½, s 30; 10 at 65½; 20 at 68, b 30; 30 at 65, s 30; 20 at 65; 45 at 64½.
North American, 40 shares at $125 per share; 60 at 120, s 10; 5 at 127½, b 30; 10 at 130, b 30; 10 at 125, b 10.
Lucerne, 4 shares at $15 per share.
Rock Island, 20 shares at $20 per share.
Nevada, Justice Ground, 20 shares at $176 per share.
Baltimore American, 5 shares at $44 per share.
Baltic, 10 shares at $165 per share.
North Potosi, 15 shares at $57½ per share.
Utah, 5 shares at $28 per share; 10 at 30, b 30.
Adriatic, 20 shares at $10 per share.
Daney, 20 shares at $125 per foot; 40 at 120; 40 at 127½; 20 at 130; 20 at 125.
Ophir, 24 shares at $1600 per foot, r w; 12 at 1600.
Cal. Steam Navigation, 10 shares at $41 per share, r w; 10 at 40.

AFTERNOON SESSION.

Lady Bryan, 45 shares at $64 per share; 10 at 61½; 20 at 65; 20 at 63, s 30; 20 at 65½; 65 at 66.
Real del Monte, 10 shares at $92½, b 30; 57 at 88; 25 at 93, b 30; 35 at 89; 10 at 89, r w; 10 at 90; 5 at 91.
Charles Cany, 10 shares at $11 per share, b 30.
Desert, 25 shares at $18 per share; 25 at 20.
Nevada, Justice Ground, 5 shares at $180 per share.
Pride of the West, 6½ shares at $85 per share.
Potosi, 2 shares at $1310 per foot; 2 at 1300.
Ophir, 60 shares at 1650 per foot.

PACIFIC BOARD OF BROKERS.

Caledonia Tunnel, 10 shares at $29 per share, b 30, n d.
Burnside, 10 shares at $14 per share.
Lady Bryan, 5 shares at $70 per share; 10 at 75, b 30; 10 at 76, b 18, n d; 20 at 70, s 10; 5 at 75, b 15, n d; 40 at 65; 10 at 70, b 15, n d; 5 at 65½; 10 at 72½, b 30; 5 at 64.
Charles Cany, 20 shares at $10¼ per share,
Triunfo, 45 shares at $22 per share; 2 at 21.
Adriatic, 10 shares at $8½.
Real del Monto, 1 share at $87 per share; 5 at 92, b 30; 5 at 90, b 30.
Harmon, 10 shares at $24 per share; 33 at 25.
Burgess, 25 shares at $16 per share.
Burning Moscow, 11 shares at $75 per share.
American Pioneer, 5 shares at $5½ per share,

SALES BY THE STOCK EXCHANGE.

Seneca, 10 shares at $15 per share.
Lady Bryan, 20 shares at $68 per share; 10 at 65.
Caledonia Tunnel, 10 shares at $29 per share.
Clement, 25 shares at $15 per share.
Adriatic, 10 shares at $8½ per share.
Ironsides, E., 10 shares at $12 per share; 10 at 12½.

Sales by the S. F. Stock and Exchange Board,.....$144,839 50
Sales by the Stock Exchange,..... 3,095 00
Sales by the Pacific Board of Brokers,..... 13,370 00

Total sales of the day, of all Boards,..... 161,304 50

TUESDAY, FEBRUARY 16.

S. F. STOCK AND EXCHANGE BOARD.

Burning Moscow, 20 shares at $70 per share.
Charles Cany, 37 shares at $11 per share.
Bajazet, 2 shares at $37 per share.
Real del Monte, 35 shares at $85 per share; 15 at 94; 30 at 96; 10 at 97; 5 at 97½; 10 at 95½; 20 at 90, s 30; 16 at 95; 25 at 91, s 30; 20 at 93, s 30; 35 at 96; 10 at 92½, s 30; 10 at 95; 15 at 97½, b 30; 10 at 93, s 30.
Silver Hill, 5 shares at $14 per share.
Baltimore American, 30 shares at $41 per share.
Bullion, G. H., 16 shares at $60 per share, b 10; 5 at 60.
Lady Bryan, 10 shares at $67½ per share, b 30; 55 at 65; 80 at 64; 10 at 64, b 15; 30 at 63; 50 at 63; 20 at 65, b 30; 20 at 64, b 30; 50 at 61; 30 at 61½; 10 at 61, s 30.
Amidon, R. R., 10 shares at $170 per share.
Nevada, Justice Ground, 10 shares at $190 per share; 10 at 200.
North American, 10 shares at $120 per share, b 20.
Caledonia Tunnel, 10 shares at $28 per share, b 30.
North Potosi, 10 shares at $55 per share.
Daney, 20 shares at $120 per foot, b 30; 60 at 125; 20 at 125, b 30.
Ophir, 24 shares at $1625 per foot.
Chollar, 8 shares at $290 per foot.

AFTERNOON SESSION.

Lady Bryan, 5 shares at $67½ per share, r w; 20 at 56; 5 at 57; 20 at 57½, s 30; 55 at 59.
El Dorado, 5 shares at $42½ per share; 15 at 45.
Real del Monte, 5 shares at $85 per share; 10 at 97; 5 at 99; 40 at 100; 20 at 110, b 30; 15 at 115, b 30; 30 at 105; 10 at 105, s 30; 20 at 110; 15 at 115, b 30; 15 at 110, r w; 30 at 110; 10 at 110, s 10; 10 at 109; 10 at 112½, b 15; 10 at 115, b 30.
Antelope, 5 shares at $200 per share.
Burning Moscow, 15 shares at $70 per share.
Baltimore American, 10 shares at $40 per share.
Ballic, 20 shares at $165 per share.
North Potosi, 5 shares at $55 per share.
Caledonia Tunnel, 35 shares at $28 per share, b 20.
Lafayette, 20 shares at $15 per share, b 30; 40 at 15; 10 at 15½.
Ophir, 24 shares at $1630 per foot, b 30.
Daney, 60 shares at $122½ per foot; 20 at 125, b 30.

PACIFIO BOARD OF BROKERS.

Harmon, 10 shares at $26½ per share; 5 at 27½; 10 at 28.
Utah, 10 shares at $30 per share.
Lady Bryan, 10 shares at $72½, b 30, n d; 10 at 66; 10 at 66, 1 d; 5 at 61; 10 at 61, r w; 110 at 60; 10 at 65, b 25, n d; 20 at 60½; 65 at 63, b 30; 10 at 59½.
Daney, 5 shares at $125 per share, s 30.
Grey Eagle, 10 shares at $21 per share; 10 at 21½.
East Lynn, 10 shares at $9½ per share; 50 at 11, b 30.
Real del Monte, 1 share at $95 per share; 5 at 98, b 30, a 15; 5 at 95.
Caledonia Tunnel, 10 shares at $27½ per share.
American Pioneer, (copper) 10 shares at $5 per share.
Chas Cany, 5 shares at $12 per share.

SALES BY THE STOCK EXCHANGE.

Real del Monte, 4 shares at $94 per share.
Lady Bryan, 25 shares at $65 per share; 10 at 65½; 10 at 64½.
Crown Point Ravine, 10 shares at $15 per share.
Crockett Consolidated, 10 shares at $10½ per share.
Adriatic, 10 shares at $8½ per share.
Cosala, 10 shares at $10 per share.
Caledonia Tunnel, 10 shares at $26 per share.

Sales by the S. F. Stock and Exchange Board,.....$157,274 00
Sales by the Stock Exchhuge,..... 4,011 00
Sales by the Pacific Board of Brokers,..... 20,976 50

Total sales of the day, by all Boards,..... 182,261 60

WEDNESDAY, FEBRUARY 17.

S. F. STOCK AND EXCHANGE BOARD.

Burning Moscow, 45 shares at $75 per share; 10 at 71.
Charles Cany, 23 shares at $12 per share; 49 at 13.
Pride of the West, 10 shares at $95 per share; 10 at 90.
Real del Monte, 15 shares at $106 per share; 10 at 112, b 20; 20 at 100, 5 at 105, b 30; 5 at 102½, s 10; 20 at 103; 5 at 102½; 20 at 108, b 30; 10 at 103; 10 at 107½, b 30; 10 at 105, s 30; 20 at 105; 20 at 104, s 30; 10 at 106, b 10; 5 at 104.
Silver Hill, 5 shares at $14 per share.
Moss, Va., 10 shares at $50 per share.
Wide West, 25 shares at $27 per share.
Lafayette, G. H., 30 shares at $17 per share.
Blue Ledge, 31 shares at $9 per share.
Nevada, Justice Ground, 5 shares at 225 per share, s 30; 2 at 240.
Harmon, 25 shares at $25 per share.
Lady Bryan, 250 shares at $66 per share; 50 at 62¾, b 30; 15 at 59; 50 at 60, b 30; 15 at 58; 30 at 57, s 10; 160 at 59, h 30; 30 at 57, s 30; 10 at 57½; 50 at 60, b 30; 20 at 58; 10 at 58½; 50 at 59; 60 at 60; 60 at 59½; 15 at 59.
North American, 10 shares at 120 per share, b 30.
Daney, 20 shares at $125 per foot; 80 at 127½.
Ophir, 96 shares at $1625 per foot; 60 at 1660, b 30.

AFTERNOON SESSION.

Pride of the West, 40 at $92½ per share.
Lady Bryan, 10 shares at $58 per share, s 30; 20 at 56; 10 at 54, s 10; 30 at 50; 60 at 52½; 10 at 53; 10 at 53, r w; 30 at 54, r w; 20 at 53, s 30; 10 at 51; 30 at 56, b 30.
Charles Cancy, 10 shares at $14 per share; 10 at 15; 49 at 17; 40 at 16.
Lafayette, G. H., 10 shares at $19 per share; 35 at 20.
Real del Monte, 10 shares at $93 per share; 10 at 100, b 30; 5 at 96; 25 at 95; 5 at 97, b 30; 50 at 90, s 30; 29 at 90; 5 at 90, b 5; 10 at 90, b 30.
North American, 20 shares at $10 per share.
Ophir, 12 shares at $1620 per foot.
Daney, 108 shares at $135 per foot.

PACIFIC BOARD OF BROKERS.

Lady Bryan, 30 shares at $60 per share; 10 at 65, b 10, n d; 10 at 53, b 30; 10 at 59, s 20; 15 at 63, b 20; 5 at 53, s 30; 10 at 60½, r w; 10 at 68, b 30, n d; 10 at 60, s 10; 20 at 69, b 30, n d.
Blue Ledge, 10 shares at $9¾ per share; 10 at 10; 10 at 9, s 30.
Real del Monte, 10 shares at $115 per share, b 30, a 15; 10 at 115; 10 at 120, b 7; 55 at 105; 5 at 110, b 30; 10 at 106; 15 at 107½, b 30; 5 at 108, b 30; 10 at 103; 5 at 110, b 30, n d; 10 at 103½, r w.
Independent, G. H., 10 shares at $37 per share.
Caledonia Tunnel, 8 shares at $26 per share.
Crockett, 50 shares at $12 per share; 50 at 14½.
Knickerbocker, 10 shares at $82½ per share.

SALES BY THE STOCK EXCHANGE.

Seneca, 10 shares at $19 per share.
Daney, 21 shares at $125 per share.
Caledonia Tunnel, 20 shares at $25 per share; 20 at 26, b 30.
Burning Moscow, 10 shares at $68 per share.
Lady Bryan, 20 shares at $60 per share; 20 at 59; 5 at 59½; 10 at 58.
Sierra Consol, 10 shares at $1½ per share.
Josephine, copper, 30 shares at $5¾ per share.
Belmont, R. R., 30 shares at $8 per share.

Sales by the S. F. Stock and Exchange Board,..... $424,641 00
Sales by the Pacific Board of Brokers,..... 26,273 00
Sales by the Stock Exchange,..... 8,180 00

Total sales of the day by all Boards,..... 459,094 00

THURSDAY, FEBRUARY 18.

S. F. STOCK AND EXCHANGE BOARD.

Burning Moscow, 35 shares at $72½ per share; 2 at 74; 25 at 71; 10 at 75, b 30.
North Potosi, 10 shares at $54 per share.
Pride of the West, 5 shares at $92½ per share; 60 at 85, s 30.
Real del Monte, 5 shares at $80 per share, b 30; 10 at 75; 15 at 73; 6 at 72½; 5 at 71; 35 at 70, r w; 45 at 70; 20 at 75, b 30; 5 at 73; 5 at 77½, b 30.
Lady Bryan, 25 shares at $50 per share, r w; 60 at 50; 20 at 52½; 85 at 55; 10 at 55, r w; 10 at 54; 20 at 55, b 30; 50 at 50, s 30; 35 at 52½, r w; 20 at 53; 10 at 53½; 20 at 56, b 30.
Antelope, 5 shares at $200 per share.
Overman, 3 shares at $450 per share, b 30; 3 at 440.
Nevada, Justice Ground, 10 shares at $235 per share; 5 at 200, s 30; 10 at 210.
Lafayette, G. H., 10 shares at $19½ per share; 10 at 20, b 30; 130 at 18; 50 at 19.
North American, 20 shares at $115 per share, r w; 10 at 108; 10 at 102½, s 30; 10 at 102; 10 at 105, r w; 10 at 102½.
Bullion, G. H., 5 shares at $62 per share, b 30; 5 at 60, b 30.
Charles Cany, 20 shares at $17 per share.
Caledonia Tunnel, 30 shares at $24½ per share; 30 at 26, b 30; 30 at 25½, b 30.
Chollar, 4 shares at $290 per share.
Daney, 50 shares at $132½ per foot; 60 at 140, b 30.

AFTERNOON SESSION.

Nevada, Justice Ground, 10 shares at $200 per share, s 30; 5 at 190; 10 at 195; 10 at 200.
Lady Bryan, 20 shares at $55 per share, s 60; 20 at 56½; 200 at 57; 20 at 55, s 30; 10 at 57½; 10 at 58; 50 at 55, b 30; 20 at 57½, s 30; 90 at 67½, b 30; 15 at 61; 100 at 60, s 30; 20 at 67½, b 30; 10 at 63; 70 at 62; 10 at 57½, s 60; 50 at 65, b 30.
Real del Monte, 15 shares at $80 per share, s 30.
Silver Hill, 13 shares at $13 per share.
Pride of the West, 10 shares at $92½ per share.
Baltimore American, 15 shares at $44 per share.
Burning Moscow, 10 shares at $71 per share.
North American, 10 shares at $110 per share.

PACIFIC BOARD OF BROKERS.

Real del Monte, 10 shares at $75, b 30; 5 at 76.
Lady Bryan, 35 shares at $53 per share; 10 at 52½.
Chas Cany, 5 shares at $15 per share; 10 at 14.
Daney, 5 feet at $140 per foot, b 30; 4 at 136, b 30.
Mt. Davidson, 25 shares at $2¼ per share; 25 at 2¼.
Grey Eagle, 10 shares at $21½ per share; 10 at 22.
Harmon, 21 shares at $30 per share.
Burnside, 30 shares at $15 per share; 30 at 16, b 30.
Adriatic, 25 shares at $9 per share, b 30.

SALES BY THE STOCK EXCHANGE,

Lady Bryan, 10 shares at $54 per share.
North American, 5 shares at $108 per share.
Caledonia Tunnel, 20 shares at $25 per share.
Real del Monte, 15 shares at $75 per share.$3 at 80; 2 at 76; 3 at 79.
Imperial, 5 shares at $170 per share.
Seneca, 5 shares at $17 per share.
Benjamin, 10 shares at $8½ per share.

Sales by the S. F. Stock and Exchange Board,.....$132,575 50
Sales by the Pacific Board of Brokers 7,096 50
Sales by the Stock Exchange,..... 4,129 00

Total sales of the day, by all Boards,..... 143,801 00

FRIDAY, FEBRUARY 19.

S. F. STOCK AND EXCHANGE BOARD.

Charles Cany, 5 shares at $13 per share; 10 at 14; 10 at 12; 10 at 11.
Sacramento and Meredith, 30 shares at $32½ per share; 20 at 30.
Adriatic, 32½ shares at $8 per share; 11 at 9½.
Pride of the West, 10 shares at $95 per share; 5 at 100, b 30; 15 at 90.
Real del Monte, 63 shares at $85 per share; 30 at 84; 5 at 90, b 30; 5 at 84, r w; 10 at 83, b 30; 45 at 82½; 10 at 82; 20 at 80; 20 at 87, b 30; 10 at 86, b 30; 10 at 88, b 30; 10 at 81; 5 at 83; 5 at 89, b 30.
North Potosi, 5 shares at $53 per share; 20 at 54.
Wide West, 10 shares at $25 per share.
Lady Bryan, 20 shares at $60 per share, r w; 60 at 69, 35 at 62, b 30.
Burning Moscow, 15 shares at $65 per share; 2 at 86.
Nevada, Justice Ground, 20 shares at $95 per share, s 5.
North American, 10 shares at $110 per share, b 30.
Baltimore American, 10 at $44 60; 25 at 45; 10 47 50, b 30.
Burnside, 100 shares at $16 per share, b 30.
Crockett, 5 share at $20 per share.
Chollar, 20 shares at $300 per foot; 40 at 300, b 30.
Daney, 40 shares at $140 per foot, b 30.
Ophir, 12 shares at $1600 per foot; 12 at 1595.

AFTERNOON SESSION.

Baltic, 5 shares at $162 50 per share.
Daney, 12 shares at $130 per shure; 10 at 127 50, s 30.
Potosi, 1 share at $1300 per share.
Imperial, 10 shares at $165 per share.
Pride of the West, 10 shares at $90 per share; 6 at 85, r w.
Wide West, 30 shares at $25 per share.
Burning Moscow, 18 shares at $85 per share.
Real del Monte, 10 shares at $8 per share; 60 at 80, s 30; 5 at 83; 50 at 85, b 30.
Lady Bryan, 100 shares at $49 per share; 20 at 60, b 30; 10 at 67 60.
North American, 30 shares at 110 per share.
Overman, 3 shares at $430 per share.

PACIFIC BOARD OF BROKERS.

Caledonia Tunnel, 10 shares at $25 per share, b 30.
Lady Bryan, 10 shares at $60 50 per share; 25 at 60; 10 at 61, b 15; 25 59 50; 10 at 52 50, s 60; 10 at 63, b 15, n d; 20 at 60, r w; 20 at 55, s 30.
Burnside, 20 shares at $16 50, 3 d.
Adriatic, 20 shares at $9 50 per share.
Real del Monte, 5 shares at $90 per share, h 10; 5 at 82 50.
Blue Ledge, 20 shares at $9½ per share, s 30.
Mountain View, S. R., 100 shares at $17 per share, b 60, n d; 100 at 18, b 60, n d.
Mt. Davidson, 50 shares at $2¼ per share.
Broderick, Echo Canon, 20 shares at $12 per share.
Chollar, 5 shares at $310 per share, b 30, n d.
Harmon, 5 shares at 30 50, per share.
East Lynn, O. R., 10 shares at $14 50 per share.
Chas. Cany, 8 shares at $12 per share.
Grey Eagle, R. R., 50 shares at $22 50 per share.

Sales by the S. F. Stock and Exchange Board,.....$83,934 00
Sales by the Pacific Board of Brokers,..... 16,268 50

Total sales of the day, by all Boards,..... 100,192 50

Total sales of the week, by all Boards,.....$1,160,827 50

Gold in New York.

Monday February 15 ..... 161@161⅝ 162

Legal Tender Notes.

San Francisco, Friday February 12.....64½ per cent.

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GEO. G. BURNETT, Sec'y sixteen Co's, Gold Hill, N. T.

The Ledger can be adapted to Companies DECLARING DIVIDENDS, with a very slight change, and such will be got up for those who desire them. Copies of the work sent by mail, postage paid, on receipt of $10.

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☞ Parties desiring to learn the place of business of any Mining Company, should call upon us.

The Law for Publishing Legal Mining Notices.

An utterly erroneous opinion having been engendered in the minds of some (through misrepresentations and interested motives of others), that the laws of this State technically require the publication of mining notices to be made in a DAILY paper, we take occasion to quote the following positive passage concerning the publication of mining notices, from the latest statutes passed by our Legislature on the subject, March 5th, 1861, which has not since been altered or amended:—

"Notice of each such call, or assessment, shall be given to the respective stockholders personally, or shall be published once a week for at least four weeks in some newspaper published at the point designated as the principal place of business of the corporation, and also in some newspaper published nearest to the point where said mining operations are being carried on. If, after such notice has been given, any stockholder shall make default in the payment of such call, or assessment, as to the shares of stock held by him, so many of such shares may be sold as will be necessary for the payment of the call, or assessment, on the shares held by him. The sale of said shares shall be made as prescribed in the by-laws of the company; *provided*, that no sale shall be made except at public auction to the highest bidder, after a published notice of thirty days, PUBLISHED AS ABOVE DIRECTED; and that at such sale the person who will agree to pay the call, or assessment, so due, together with the expense of advertisement and the other expenses of the sale for the smallest number of whole shares, shall be deemed the highest bidder."—[Passed March 5th, 1861—Stat. 1861, p. 14.

The above is indeed plain, and we hold ourselves responsible for the assertion that a weekly issue of a mining notice is as valid as that of a daily. By publication in the MINING AND SCIENTIFIC PRESS, a wide circulation is given to notices, particularly among miners and shareholders in this city and throughout the State and Nevada Territory. A weekly publication is also secured at a material saving in cost to shareholders.

Record of New Incoporations.

The following is a record of the names of the companies, location of the claims, and the names of the Trustees mentioned in the articles of incorporation, filed in the County Clerk's office, in this city, since our last report:—

Murathon G. & S. M. Co.—Keyes District, Mono county. Trustees: E. Jones, R. H. Waller, T. Brownejohn, E. C. McComb, E. N. Conway.

Baltimore American M. Co, R.—Gold Hill District, N. T.; Annis Merrill, A. Riechel, Wm. McKenzie.

Skinner G. & S. M. Co.—Arizona Territory; H. C. Skinner, Wm. F. Walton, Silas A. Stone.

Rochester G. & S. M. Co.—Arizona Territory; Wm. T. Coleman, H. C. Skinner, Silas A. Stone, Jr.

Green Lode G. & S. M. Co.—San Bernardino county; S. F. Butterworth, C. J. Brenhani, E. L. Gould, W. H. Simmons, D. W. Connelly.

Mountain Mary G. & S. M. Co.—Amador county; M. B. Skinner, C. Goodsell, S. F. Gilbert.

Green Mountain G. & S. M. Co.—Lander county, N. T.; A. M. Hay, D. T. Berry, W. D. Robertson, W. Phillips, W. A. Thornley.

De Soto G. & S. M. Co.—Reese River; A. M. Hay, D. T. Berry, M. Rereing.

Hinton C. & S. M. Co.—Reese River; G. W. Randall, R. S. Ellis, W. Hollis, J. S. Ellis, T. F. Hinton.

Gov. Low G. & S. M. Co.—Reese River; F. L. A. Ploche, C. A. McNulty, A. M. Hay, A. Warfield, H. Marshall.

Mandarin S. N. Co.—Reese River; C. W. Randall, R. S. Ellis, Wm. Hollis, W. H. Bowman, J. S. Ellis.

Volcano S. M. Co.—Colorado district, A. T.; E. Livermore, J. H. Purkett, F. A. Busch, H. G. Livermore, C. Hamilton.

Florence G. & S. M. Co.—Tulare county, Cal.; B. N. Cortes, G. F. Whiteman, R. Hutchinson.

Masonic Tunnel & M. Co.—Lander county, N. T.; O. Wetherbee, C. B. Ellery, H. K. Eustis, G. A. Douglas.

NEVADA TERRITORY.

We gather from the Territorial papers the following names of mining companies which have recently filed papers of Incorporation in Nevada Territory:—

Yankee Blade G. & S. M. Co.—Flowery district; J. M. Caston, E. Willard, C. T. Brickmell, W. McKay, R. Mackintosh.

Knight G. & S. M. Co.—Knight district; Dennis Wood, Jas. Callup, W. C. Daval.

Monitor G. & S. M. Co.—Gold Hill district; Wm. Englinder, J. J. Clark, J. M. Donlon.

Lady Esther G. & S. M. Co.—Gold Hill district; J. H. Mallet, W. R. Schriner, J. F. Mansfield.

Live Yankee G. & S. M Co.—Nevada district; T. E. Davis, J. C Jones, M. Morgans.

War Eagle G. & S. M. Co.—Palmyra district; E. C. Shaw, D. E. Jones, J. S. Crossman.

North Whitman G. & S. M. Co.—Indian Springs district; A. Lewis, H. C. Millington, G. B. Johnson, S. J. Eddy, N. Miller.

Eugene M. Co.—Devil's Gate district; J. Craig, John Kneeland, E. Bittner.

Palmyra G. & S. M. Co.—Palmyra district; John Macnish, L. P. Cauthier, T. McDonough, J. H. Kelley.

South Baltic S. M. Co.—Gold Hill district; J. H. Latham, J. Gillig, David Bush.

Fillmore G. & S. M. Co.—Gold Hill district; H. P. Rollins, Truman Austin, J. B. Mccartney, J. W. Wedlock, W. A. Roberts.

Uncle Sam G. & S. M. Co.—Flowery district; J. H. Mallett, F. Downey, W. R. Scribner, A. J. Davis, H. N. S. McCullough.

Spanish Co.—Devil's Gate district; C. Wedmeier, E. de Arroyare, F. Alvares, A. Gerhauser, Wm. Johnson.

Rich C. & S. M. Co.—Gold Hill district; A. A. Banning, R. Apple, Thomas Kent.

Congo Seco G. & S. M. Co.—Gold Hill district; Charles Ginn, R. Pierce, Thomas Mitchell.

Florida G. & S. M. Co —Virginia district; C. W. White, R. W. Billett, W. R. Scribner, E. E. Eyre, Wm. H. Davenport.

Randolf S. M. Co.—Robert Apple, A. M. Eddington, D. F. Hodges.

Loyal American G. & S. M. Co.—Blue Sulphur Springs district; E. May, J. B. M. Key, J. Wells, J. S. Anderson, W. C. Bell.

Lyon G. & S. M. Co.—Palmyra district; D. Kendrick, D. E. Jones, J. S Crossman.

Delevan G. & S. M. Co.—Blue Sulphur Springs district; Charles C. T. J. Devoe, T. D. Warnock, Wm. Keyser, T. R. P. Dimock.

Triumph G. & S. M. Co.—Same as above.

THE BAKER COPPER MINE is beginning to attract considerable attention. The first shipment of 40 tons of ore from this mine has arrived in this city during the past week, and will be shipped to Swansea, through the house of W. T. Coleman & Co. The ore from this mine is sacked just as it comes from the surface, without assorting. The lot just shipped assays 20 per cent. in copper, $11.30 in silver, and $23.50 in gold. They are raising from three to four tons of ore daily, by windlass, from a four-foot vein—so we are informed by one of the proprietors.

NAUTICAL MAGAZINE.—We acknowledge the reception of a bound volume, for 1863, of *The California Nautical and Commercial Magazine*, of this city, edited by Capt. John H. Bell. This is a very ably conducted and useful periodical, and should receive a generous support from commercial and nautical men generally.

San Francisco Stock and Exchange Board.—Prices Bid and Asked.

			Saturday.		Monday.		Tuesday.		Wednesday.		Thursday.		Friday.	
WASHOE STOCKS.	FEET.	SHARES.	VAL.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.
Ophir	1,800	16,800	300	1,550	1,600	1,600	—	1.516	1,516	1,625	1,650	1,605	1.61[illegible]	1,595	1,600
Gould & Curry	1,200	4,800	300	—	4,850	4,800	4,850	4,800	4,850	4,770	4,800	4,750	4,800	4,750	4,780
Savage	800	800	2,400	—	3,100	2,850	3,100	2,750	3,000	3,000	3,050	3,000	3,050	3,050	3,100
Chollar	1,400	5,600	400	280	330	275	300	280	300	270	290	285	300	295	285
Potosi	1,400	2,800	500	1,200	1,300	1,300	1,500	1,200	1,500	1,225	1,500	1,225	—	1,300	1,425
Hale & Norcross	400	800	500	675	—	—	800	—	—	—	800	—	800	600	750
Sierra Nevada	3,000	3,000	300	80	90	95	—	80	—	88	100	85	105	80	100
Daney	2,000	800	60	110	115	130	—	110	122½	125	130	122½	134	132½	140
Adriatic Mexicow	4,100	4,100	500	—	95	70	85	—	71	72	75	70	75	85	90
North Potosi	2,000	2,000	250	55	59	56	57	54	55	52	57½	52½	54	55	57
Charles Cany	1,800	1,800	30	10½	11	10	11	11	12	13	14	15	—	11	12
Iowa	1,200	1,200	1,000	—	—	—	—	—	—	—	—	—	50	—	60
El Dorado	1,600	1,600	500	40	53	—	50	35	42½	40	47½	—	52½	25	50
Norton	1,000	1,000	50	—	9	—	10	—	—	—	—	—	—	—	9
Burnside	2,800	2,800	500	—	16	12	15½	11	15	10½	14	14	—	13½	16
Adriatic	2,700	2,700	100	5	8	10	15	8½	9½	8½	9	—	8	9½	10
Pride of the West	1,400	1,400	100	84	85	80	85	86	90	91	93	92½	95	90	92½
Imperial	184	4,000	500	160	180	160	—	160	175	—	175	—	180	160	175
Crown Point	600	1,200	100	—	—	—	—	—	—	—	—	709	—	700	960
Manhattan	—	—	—	—	—	—	—	—	8	—	—	—	—	—	10
Seneca	—	—	—	19	20	15	—	16½	18	18	20	16	17	—	20
Mt. Davidson tun'L	1,000	1,000	200	—	4	—	3	—	2¾	—	2¾	—	2¾	—	4
Hudson	—	—	—	—	—	—	5	—	—	—	—	—	—	—	—
Bajazet & G. Era	4,000	4,000	300	—	—	35	—	35	37	35	40	35	—	—	—
Cedar Hill tunnel	—	1,000	100	—	—	—	—	—	1½	—	2	—	1½	—	—
Gold Hill Qu'tz Mill	—	—	—	—	300	—	—	—	—	—	—	—	—	—	300
ESMERALDA.															
Wide West	1,400	1,400	2,600	28¼	29½	25	30	27	29	27	29	25	27½	22	25
Antelope	1,200	1,200	500	200	225	150	200	165	200	190	220	190	212	202	225
Esmeralda	1,000	1,000	1,000	—	—	—	—	—	—	—	—	—	—	—	—
Real del Monte	4,400	4,400	400	83½	85	80	86	94	95	103	105	74	76	82	85
Utah	1,600	1,600	250	27	28½	28	30	28	29	26	28	24	—	21	28
Silver Hill	3,000	3,000	500	13	14	13	20	13	14	13	14	13	14	—	13
Nevada	600	1,200	250	—	—	—	—	—	7	—	—	—	—	—	7
Falls of Clyde	6,000	6,000	100	—	—	—	2	—	2	—	—	—	2	—	2
Bamboo	600	600	500	—	—	—	100	—	—	—	—	—	—	—	70
Crockett	—	—	—	—	—	10	15	10	15	12½	—	13	20	17½	20
Federal Hope	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Jenny Lind	—	—	—	—	—	—	—	—	—	—	—	—	6	—	—
COSO.															
Josephine	9,600	4,800	2,500	—	—	—	—	—	2	—	2	—	—	—	1½
Willow Springs	2,700	2,700	100	—	1¾	—	4	—	4	—	10	—	—	—	—
Coso	2,600	3,600	600	—	9	—	—	4	—	—	—	—	6	6	—
COPPER.															
Napoleon	2,700	2,700	600	60	75	52½	70	50	65	45	65	50	65	50	65
Josephine	—	—	—	7	10	—	10	4	8	—	8	3	10	3	—
CALIFORNIA.															
Laurel Hill	—	—	—	—	—	—	—	—	—	—	5½	—	—	—	—
Rhodes Diggings	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fellowes	2,500	2,500	100	—	—	—	45	—	40	—	45	—	—	—	—
Maxwell	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rock River	—	—	—	—	60	—	—	—	—	—	—	—	—	—	—
Eureka	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HUMBOLDT STOCKS.															
De Soto	1,980	1,980	100	12	25	—	—	—	35	—	30	—	—	—	30
Great Basin	—	—	—	—	—	—	2	—	2	—	2	—	3	—	2

Professor Whitney's Lecture.—Extra copies of the MINING AND SCIENTIFIC PRESS of February 6th, 1864, containing the lecture of Prof. J. D. Whitney, (State Geologist,) on "MINING AND ITS RELATIONS TO CIVILIZATION AND PROGRESS," can be obtained by calling at this office.

Emmett Copper Mining Company, Office No. 645 Clay Street, San Francisco, February 19th, 1864.—Notice is hereby given to the Stockholders of the Emmett Copper Mining Company, that an assessment, No. 4, of 37½ cents per share was this day levied on each and every share of the Capital Stock of said Company, payable immediately in United States Gold Coin, to the Secretary, or to L. HONIGSBERGER, Copperopolis.

8v8-4t M. G. ELMORE, Sec'y.

W. R. MAURICE,
Stock Broker, Real Estate Agent
And Mining Secretary.
Office, No. 708 Montgomery Street, San Francisco. Reference—Messrs. PARROTT & Co., Bankers. 8v3-tf

THOMAS HILL,
Member of the S. F. Stock and Exchange (1st) Board.
A. H. MURDOCK,
Member of Stock Exchange,
No. 623 Montgomery Street. Opposite Montgomery Block,
SAN FRANCISCO.

E. D. Farrington,
ASSAYER.
No. 430 Montgomery street, San Francisco. N. B. Assays guarranteed. 8v8-1m

To the Assayers and Mining Companies
OF THIS COAST.—THE UNDERSIGNED, HAVING SUCCEEDED in manufacturing Muffles, Assay Crucibles, Scorifiers and Annealing Cups, offers them for sale at reasonable prices. Also, orders for Assayers' Implements and Materials received and carefully attended to. H. HERZER.
No. 17 Kearny St., near Market, San Francisco. 8v8-3m

HENRY BAKER AND JOS. N. SOUTHER,
Mining Secretaries & Brokers.
Rooms 12 & 14 Athenæum Building, corner Montgomery & California Streets, San Francisco.
B. & S. will attend, in a prompt and satisfactory manner, to the Incorporation of Mining and other Companies, the purchase and sale of Stocks and Real Estate, and the adjustment of accounts. 8v8-3m

Bankers Gold and Silver Mining Company, Gold Hill, Virginia District, N. T.—The Annual Meeting of the Stockholders of the Bankers C. & S. M. Co., will be held at their office, No. 620 Washington street, San Francisco, on Tuesday, March 1st, 1864, for the purpose of electing Trustees for the ensuing year and the transaction of such other business as may be necessary.

7v8-3t W. AUG'S. KNAPP, Sec'y.

El Dorado Consolidated Gold & Silver Mining Company, Devil's Gate District, Nevada Territory.—Office 113 California Street.—San Francisco, February 3d, 1864.—At a meeting of the Board of Trustees, of the El Dorado Consolidated Gold & Silver Mining Company, held this day, an assessment of one dollar ($1) per share was levied upon each and every share of the Capital stock of said Company, payable immediately, in United States Gold Coin, at the Office of the Company in San Francisco, or to H. F. RICA, at Carson City, Nevada Territory. By order of the Board of Trustees.

Febrnary 4th, 1864. [7v8-4t] JNO. F. POPE, Sec'y.

Emmett Copper Mining Company, Office No. 645 Clay Street, San Francisco, February 6th, 1864.—Notice is hereby given to the Stockholders of the Emmett Copper Mining Company that an assessment, No. 3, of 25 cents per share was this day levied on each and every share of the Capital Stock of said Company, payable immediately in United States Gold Coin, to the Secretary, or to L. HONIGSBERGER, Copperopolis.

7v8-4t M. C. ELMORE, Sec'y.

Enterprise Copper Mining Company.—Office 645 Clay Street, San Francisco, Feb. 13th, 1864.—Notice is hereby given, that there will be sold at the Office of the Enterprise Copper Mining Company, on Saturday March 19th, 1864, at 10 o'clock A. M. so many shares of the Capital Stock of said Company as will be necessary to pay all assessments due and delinquent, standing in the names of the following parties:—

NAMES.	NO. SHARES.	AM'T. DUE.
Abell & Evans	200	$ 52
A. Bateman	125	32 50
Belcher & Schwarz	34	8 84
M. Berkowitz	50	4
John Cochran	25	14
J. M. Camon	25	14
J. P. Dameron	100	46
Wm. Davis	25	6 50
Thos. Donahue	15	8 40
James Daley	10	2 60
D. Eisner	133	21 28
Wm. Harris	400	204
J. Krone	133	31 58
J. E. Kincaid	25	6 50
T. S. Levy	2000	475
V. C. Putman	200	52
P. Robinson	200	52
E. F. White	200	52

By order of the Board of Trustees. M. G. ELMORE, Sec'y.
San Francisco, Feb. 12th, 1864. 7v8-4t

Carson Silver Mining Company, (Monitor District, Office 622 Washington St., San Francisco.—Notice is hereby given, that in accordance with the laws of the State of California and an order made by the board of Trustees of the Carson Silver Mining Company, there will be sold at public auction at the Office of the company (by Jerome Rice & Co., Auctioneers) on Friday, March 11th, 1864, at 12 o'clock, (noon) of that day, so many shares of the the Capital Stock of said company, standing in the name of the following named Stock-holders as shall be sufficient to pay the following described assessments: No. 1, Twenty (20) cents per share, levied April 30th, 1863. No. 2, Fifty (50) cents per share, levied Nov., 30th, 1863; together with expenses of advertising and sale, unless said assessments are previously paid with accruing charges. To wit:

NAMES	SHARES	AMOUNT.
C. M. Gregory, No. 1, 200 ft; No. 2, 163 ft		$121 50
H. K. Clapp	125	87 50
J. L. Waite	145	101 50
W. Brackett	60	42
E. W. Brackett	25	17 50
W. H. Knight	25	12 50
L. Dessoworth	12	6
Wm. Davison	20	10

7v8-4w C. STEVENS, Sec'y.

Secretaries'
MINING DIRECTORY.
The Publishers of the MINING AND SCIENTIFIC PRESS will soon issue a new Edition of the MINING DIRECTORY, containing the names, as far as possible, of all Mining Companies, the location of their lodes, Secretaries' names and the Offices of such as have their principal place of business in San Francisco.

☞ Secretaries of newly incorporated companies, or others who have not their names on our old list, will please hand in a written statement of the names of their companies, location of claims, place of business, etc., immediately.

DEWEY & CO., Publishers and Patent Solicitors, 56 & 57 Covernment House, Corner of Sansome & Washington streets, San Francisco. 6v3-tf

H. S. HOMANS,
NOTARY PUBLIC,
And Commissioner of Deeds for Nevada Territory,
MINING SECRETARY, CONVEYANCER, ETC.,
New Stock Exchange rooms, Montgomery Street, next door to the Bulletin Office, SAN FRANCISCO. 1-1m

Information Is Wanted at this Office, of the place of business of the following named Companies:—
Circulo Cordo Mining Company; H. Alder, President.
Bold Rover, Gold and Silver Mining Company.

"CHIPPINGS."

One of the Pioneer Company's stages, on the Placerville route, went over a precipice, twelve miles beyond Strawberry, on Sunday week, rolling a distance of forty or fifty feet. Nobody was seriously injured.

It was stated, some time since, at a meeting of the British Association for the Advancement of Science, that of all the articles manufactured for food or drink, only two were unadulterated—viz: refined loaf sugar and common salt.

Two men were blown up, and seriously injured, by the premature explosion of a blast, in the Cedar Hill tunnel, Virginia City, on February 10th.

To make glue water-proof, soak it in water till it is soft, then melt it in linseed, assisted with a little heat. This glue is not acted upon by water or damp.

Silk articles should not be kept folded in white paper, as the chloride of lime used in bleaching the paper will impair the color of the silk.

The new King of Greece has gained the favor of his subjects. He goes to church regularly, talks with common folks, and seems inclined to be amiable and just.

Whales are not unfrequently captured in the Arctic yielding over 300 barrels of oil, and a corresponding amount of bone.

Of the present number of patients in the Insane Asylum at Stockton, 109 are from San Francisco and 28 from Sacramento.

Rich copper discoveries have been made in the Russian river country.

The Petaluma *Argus* has completed its fourth year. It is an excellent paper.

The Virginia City *Union* states that two millions of dollars have been expanded on buildings in Virginia during the year just ended.

A steamship company is organizing in New York, whose steamers are expected to make the trip across the Atlantic in seven days.

On Saturday, the 19th of December, the moon was nearer to the earth than it has been before for fifty years.

It is proposed to form a society in London for the suppression of prize fighting.

The loss of life on the French railways is only one in seven millions of passengers.

Failed to See It.—Mr. Editor: An evening contemporary, in commenting upon what Washoe and the mines generally have done for San Francisco, sums up everything in two palatial mansions—one not made or likened after anything in heaven or upon the earth; the other revamped and refurnished to suit the taste and please the fancy of its lord. In this "summing up," we think that our contemporary has overlooked the "vast pile" which it has accumulated by advertising in its surfeited columns just to accommodate the dear confiding mining public. Let the mining interests remember this, and let not the "Ass" longer be Moderator, and the "Mole" Inspector-General, of this business. Assessments.

Bullion from Nevada Territory.—During the week ending Jan. 16, Wells, Fargo & Co. shipped from their office in Virginia City bullion to the value of $203,291. For the week ending Jan. 30, 650 lbs. of bullion, worth $197,951. For the week ending Feb. 6, the same party shipped 6,950 lbs., worth $189,094. For the week ending Feb. 13, they shipped 7,847 lbs., valued at $222,740. From Aurora, the shipment by Wells, Fargo & Co. for the month of January was $114,000.

The Mexican Mine, at Virginia City, is now working rock which averages $100 to the ton. This mine recently turned out 670 tons of ore—100 tons of which, it was estimated, would yield $800 per ton, and the entire of the balance fully $100 per ton. The company employs forty men at the mine.

Before Cutting the Leaves of this journal, stitch each No. through the back, or fasten with a large pin, and you will have a paper in the most convenient form possible for reading or reference.

Mr. Jarvis Jowett is our duly authorized advertizing agent and collector in this city.

Miscellaneous Advertisements.

MINERS' FOUNDRY
—AND—
MACHINE WORKS,
First street, between Howard and Folsom streets,
SAN FRANCISCO.

EVERY DESCRIPTION OF IRON AND BRASS MACHINERY, the **Best** and **Most Economical**, manufactured in the State of California, will be furnished with dispatch at the Miners' Foundry and Machine Works, as:

Steam Engines and Boilers, Flour, Saw and Quartz mill machinery, Mining Pumps, Amalgamators, Retorts, Etc., Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections, designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities will be afforded ample facilities, free of cost.

All parties desiring accurate and highly finished drawings and Superior Machinery, at most reasonable rates are cordially invited to call before contracting elsewhere.

HOWLAND, ANGEL & KING.
San Francisco, February 23, 1863. tf.

PALMER, HANSCOM & CO.,
GOLDEN STATE IRON WORKS,
No. 19, First Street, San Francisco,
Furnish Castings and Machinery of all kinds,
Also Genuine White Iron Shoes and Dies.
PALMER, HANSCOM & CO.

To Quartz Miners.

KNOX'S IMPROVED AMALGAMATING PAN
WITH PALMER'S PATENT STEAM CHEST.

THE ABOVE COMBINATION SECURES THE MOST COMPLETE amalgamation of the precious metals of any process now known. By it steam is introduced in the most effective and economical manner, while it is peculiarly adapted to the catching of floating gold and silver, known to be otherwise lost. Made exclusively by
PALMER, HANSCOM & CO.,
Golden State Iron Works,
Nos. 19 and 21 First Street, San Francisco.

The public are informed that Letters Patent have been granted the undersigned upon Steam Chest False Bottoms for the inside of Amalgamating Pans or Tubs, and are cautioned against making, buying, using or selling the same without his consent.
tf W. A. PALMER.

Sacramento Iron Works.

I STREET, BETWEEN FIRST AND SECOND STREETS, SACRAMENTO.

GOSS & LOMBARD.....Proprietors.

MANUFACTURERS OF STEAM ENGINES, MACHINERY FOR Saw, Flour and Quartz Mills, Horse Powers, Windmills, Car Wheels, Suction and Force Pumps, Cast Iron Rifles and all kinds of House Castings, at reduced prices. Gas pipe of all sizes, and all kinds of Brass and Iron Steam Fittings, with Hemp and Rubber Packing, constantly on hand. Wrought Iron Work and all kinds of Brass Castings done to order.

We are the Sole Agents in this State for the celebrated Worthington Pump, an assortment of which we keep constantly on hand. We have just received from the East a fine assortment of Cast Iron Fence Patterns, suitable for yards, balconies, cemetery lots or graves. We shall continue to do our work in the best manner and at the LOWEST CASH PRICES, hoping thereby to receive a just share of public patronage. 1-3m

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JOHN P. GALLAGHER.....JOSEPH H. WEED.

GALLAGHER & WEED,
BRASS AND BELL FOUNDRY
And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING, DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, MADE to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks, also brass Padlocks and Shop Locks of various patterns, on hand and made to order.
☞ Particular attention given to casting Rudder Braces and Ship Work in general.
☞ All Jobs promptly attended to.—Prices moderate. ☜
No. 125 First Street, opposite Minna, next door to Pacific Foundry.
[Removed from Oregon street, between Front and Davis.]
j2tf

LEWIS COFFEY. J. S. RISDON.

LEWIS COFFEY & RISDON,
Steam Boiler & Sheet Iron Works.

THE ONLY EXCLUSIVELY BOILER MAKING ESTABLISHment on the Pacific Coast, owned and conducted by Practical Boiler Makers. All orders for New Work, the repairing of Old Work, executed as ordered, and warranted as to quality.

Old Stand, corner Bush and Market Streets. Opposite Oriental Hotel, San Francisco, Cal.

Vulcan Iron Works Company.

P. Torquet,.....Manager.
Steam Engine Builders and Boiler Makers,
Iron Founders and General Engineers,

PUMPING, HOISTING, MINING AND QUARTZ-CRUSHING Machinery. Shoes and Dies of the hardest iron. Russia Iron Punched Screens, Steamboat Machinery, Saw, Flour and Sugar Mills. High and Low Pressure Boilers of all styles. Jonval and other Turbine Water Wheels with latest improvements.
tf No. 187 & 139 First Street San Francisco.

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,
BOILER MAKERS AND SHEET IRON WORKERS,

N. B. All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission, between Beal and Fremont Sts., San Francisco.
fy29-tf

WANTED,
Gold Quartz suitable for Cutting Jewelry.
By FRONTIER & DEVIERCY.
437 Pine Street, San Francisco.
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Must be seen to be Appreciated!

THE FLORENCE!

A GREAT IMPROVEMENT!

This Celebrated
NEW SEWING MACHINE
IS ACKNOWLEDGED TO BE
THE BEST IN THE WORLD!

IT MAKES FOUR DISTINCT STITCHES!
IT FEEDS THE WORK EITHER WAY!
WILL SEW OVER THE HEAVIEST SEAMS,
WITHOUT CHANGE OF TENSION!
IT SELDOM, IF EVER, DROPS A STITCH!
IT SEWS WITH SILK OR COTTON THREAD EQUALLY WELL!
IT RUNS LIGHTLY, SEWS RAPIDLY AND IS ALMOST NOISELESS!
IT DOES THE HEAVIEST OR FINEST WORK WITH EQUAL FACILITY!
IT MAKES A STICH ALIKE ON BOTH SIDES OF THE FABRIC, USING ONLY HALF THE QUANTITY OF THREAD NECESSARY FOR THE OLD FASHIONED CHAIN-STICH MACHINES!

WHILE IT POSSESSES ALL THE GOOD QUALITIES OF others, and has many advantages over any and all of them, the FLORENCE is sold at corresponding prices with other first-class Machines. We

WARRANT EVERY MACHINE

To be all that we claim for it, and will give a WRITTEN WARRANTY if required.

AGENTS WANTED in all the principal cities and towns on the Pacific coast

Send for Circulars and samples of sewing.

DON'T BUY A SEWING MACHINE UNTIL
YOU HAVE
SEEN "THE FLORENCE!"

SAMUEL HILL, General Agent.
111 Montgomery street, between Bush and Sutter, San Francisco, California. j2-3m

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A. S. HALLIDIE & CO.,
WIRE ROPE MANUFACTURERS.
Established 1857.
Office, No. 412 Clay street—Works, North Beach,
SAN FRANCISCO.

After seven years' use throughout the State of California and the Pacific Coast generally, we can confidently recommend Wire Rope for

HOISTING FROM DEEP MINES,
GUY ROPES FOR DERRICKS, &c.,
STANDING RIGGING FOR SHIPS,
FERRY ROPES FOR FERRIES,
SASH CORD FOR WINDOW SASHES,
ETC., ETC., ETC., ETC., ETC., ETC., ETC.

It being Cheaper, Stronger, Lighter and More Durable than any other kind of Rope, and not stretching or shrinking by atmospheric changes.

MINING COMPANIES, by using it for Hoisting Purposes, save 66 per cent. on their outlay for other ropes.

Wire Fencing Strand,

For fencing large parcels of land—permanently, economically and expeditiously. Manufactured in any length desired.

Pamphlets containing weight, strength and price, forwarded free application to the Manufacturers.

WIRE SUSPENSION BRIDGES AND AQUEDUCTS

We are prepared to erect, of any span and capacity, and take pleasure in referring those interested to the many structures of this kind built by us in California, Oregon and British Columbia, of span from 200 to 400 feet. 3-3m

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WHEELER'S
Amalgamating and Separating Pans

IT IS ACKNOWLEDGED BY ALL WHO HAVE EXAMINED THE principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.

The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metal arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the triturating, this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.

Where these Pans have been introduced and operated by the side of others on sands from the same vat, the Wheeler Pans have uniformly gained a large percentage of metals, over its competitors; as well as a still larger percentage in the amount of work performed.

*** These Pans may be seen in daily operation at the Miners' Foundry, on First street, San Francisco, where all interested are invited to call and examine for themselves.
no16-tf ZENAS WHEELER.

Pacific Mail Steamship Company.

THE FOLLOWING STEAMSHIPS WILL BE DISPATCHED FROM SAN FRANCISCO IN THE MONTH OF FEBRUARY, 1864.

Feb. 3—ST. LOUIS,.....Wm. H. Hudson, Commander.
Feb. 13—CONSTITUTION,.....J. T. Watkins, Commander.
Feb. 23—GOLDEN AGE,.....Wm. F. Lapidge, Commander.

From Folsom street Wharf, at nine o'clock A. M., punctually,

FOR PANAMA.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company.

A. B. FORBES, Agent P. M. S. Co.,
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To Druggists and all Prescribing for Neuralgic and Nervous Cases—Your attention is called particularly to the efficacy of WATTS' NERVOUS ANTIDOTE for the above. Feelings of humanity, independent of pecuniary considerations, would prompt you to recommend it in all cases of Neuralgic Pains, Face Ache, from defective teeth, and the General Wasting Away and Debility of the Nervous System, if you could have the assurance that this was what it is purported to be—THE GREAT RELIABLE TRANQUILIZER AND RESTORER OF THE SYSTEM. It has been repeatedly prescribed in cases of excessive drinking, on the verge of Delirium Tremens, and even while laboring under its distressing influence, with astonishing results. It contains no preparation of Opium or Valerian, and is never accompanied with the unpleasant sensation always experienced after taking successive doses of them. It is also the best Soothing Syrup in use. Patients have taken Watts' Nervous Antidote many months in succession, and experienced no unpleasant effect whatever—while the same continued use of many other popular remedies has completely shattered the system.

For sale, Wholesale and Retail, by SAMUEL ADAMS, U. S Drug Store, corner of Pine and Kearny Streets, San Francisco. 6v8-2m

A New and Valuable Book.

PROCESS OF SILVER AND GOLD EXTRACTION, BY GUIDO Kustel, Mining Engineer and Metallurgist, former manager of the Ophir Works, &c.; 350 pages octavo Illustrated.

This admirable work has met with the highest commendations from the Press and Scientific men, as a clear and able exposition of the science as practised in California and Nevada Territory. It is written for the people in good plain English and finely illustrated.

Price—post paid—Cloth $6; Sheep $7.

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Steam and Mechanical Engineer. Designs furnished, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc., etc. Agent for McKenzie's Patent Cupola and Blower.

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First Street, San Francisco.
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THEODORE KALLENBERG,

Maker of Models for Inventors.

MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.

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FREDERICK MANSELL.

Mechanical & Architectural Draughtsman,

No. 422 California street, corner of Leidsdorff.

Drawings of Models made for parties applying for patents at Washington or London. mar23-tf.

PUMPS! PUMPS!

HARRISON'S

California Lift and Force Pump,

WITHOUT VALVES OR PACKING,

Suitable for Mines, Fire Engines, Wrecking or Irrigating. This is the Cheapest, Lightest and most Durable, and least liable to get out of order of any Pump yet invented.

ALL SIZES.

Capable of throwing from ONE HUNDRED to FIVE THOUSAND Gallons per minute. For sale by

C. H. HARRISON, Phœnix Oil Works,
je15-tf 517 Front Street, San Francisco.

Mining Laws and Forms

JUST PUBLISHED, BY H. H. BANCROFT & CO., BEING A compilation of the Statutes of this State relating to Mining Corporations, Assessments, etc., with a digest of decisions of the Supreme Court and Forms of the Incorporation of Companies. Compiled by H. B. Congdon. 12mo., flexible cloth. $1,50. For sale at all the Bookstores. sep14-tf

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HAVING REFITTED THE ABOVE ROOMS THE FIRM ARE now prepared to furnish the public with a superior style of Picture, at a lower price than ever before offered in the city.

CARD PICTURES.

As we have every facility for producing these beautiful pictures, in all their different varieties, we have reduced the price to

THREE DOLLARS PER DOZEN!

Large sized Photographs $3—Extra copies $1 each.

AMBROTYPES in all Styles and Prices.

OLD PICTURES copied with care and accuracy, in any style desired. Particular attention paid to pictures of children.

Pictures painted in Oil or Water Colors, and retouched in India Ink by a competent artist. aug.

The Publication of Mining Notices in the MINING & SCIENTIFIC PRESS obtains for them a more general circulation, among parties directly interested, (in this city and throughout the mining districts of the coast, than can be secured through any other medium. State laws require their publication but once a week, and Secretaries and Trustees can make a material saving of costs to stockholders by ordering their advertisements inserted in the journal most properly entitled to receive their patronage—the weekly MINING AND SCIENTIFIC PRESS.

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INSURANCE COMPANY,

Of Hartford, Conn.,

DEVOTED TO FIRE INSURANCE EXCLUSIVELY.

Cash Capital,	**$100,000 00**
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Invested in California,	**$50,000 00**

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Premiums received by the "PHŒNIX" for insurance in this State are retained for investment in California Securities, and together with $50,000 already invested in Bonds, are held subject to claims for loss under California Policies, making

The Phœnix of Hartford

A HOME INSTITUTION.

Backed by a sound *paid up capital*, the prestige of years, and an extended and valuable experience in the business.

Losses honorably adjusted and promptly paid in United States Gold at points where they occur.

R. H. MAGILL,.....General Agent.

☞ Policies issued and renewed in this sterling and popular Company, on all classes of desirable property, at rates as low as solvency and fair profit will admit of.

L. B. DELL, Resident Agent
J. FRANK, City Solicitor. 1-3m

J. P. LeCount & Co.,

..FURNISH..

CERTIFICATES OF STOCK,

Equal to Lithograph, for $25.

Stock Ledgers, Transfer Books,

And all Stationery Required by Mining Companies.

AT LOW PRICES.

4v8-tf No. 433 Sansome street, San Francisco.

Agency for the Purchase and Sale

—OF—

MEXICAN MINING STOCKS,

At No. 411 Clay Street, San Francisco.

OFFICE OF THE PENA AND LA MARRONENA SILVER MINing Companies, San Antonio District, Lower California.

All persons are invited to call and examine Ores from the above mines.

jlt WM. FAULKNER.

IMPORTANT TO MINERS.

MAGNIFYING GLASSES FOR EXAMINING QUARTZ.

MINING COMPASSES, WITH SIGHTS AND LEVELS.

BLOW-PIPES,	GOLD SCALES.
POCKET COMPASSES,	MAGNETS,

DRAWING INSTRUMENTS, in cases and separate pieces.

MARINE AND FIELD GLASSES.

EYE PROTECTORS.	GALVANIC BATTERIES.
THERMOMETERS.	BAROMETERS.

The Largest Assortment on the Pacific Coast for sale by

LAWRENCE & HOUSEWORTH, Opticians,
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HORTON'S TRANSFER JOURNAL.

—AN ARTICLE—

CHEAP AND CONVENIENT

For Mining Secretaries. For sale at this Office.

Orders from the interior, accompanied with the Cash, will be promptly attended to. Price, $7; Postage paid, the price amounts to $7 50. 6v8-tf

STAGE NOTICE.

NEVADA STAGE COMPANY.

ON AND AFTER SATURDAY, JANUARY 2d, THE STAGES OF this line will run in connection with the Sacramento Valley Railroad from Auburn Station, each even date in the month, until further notice, to Allison's Ranch, Grass Valley, Nevada, Eureka, Steamboat Springs, Virginia City, and all points in Nevada Territory.

Office, corner of Front and K streets, Sacramento, opposite the What Cheer House.

N. B.—This line has been running stages for the last six years, and has never had an accident. Passengers can depend on their safety and comfort, as there are no persons in the employ of this line who are not stagemen. [6v8-1m] J. S. McCUE, Proprietor.

HEPBURN & PETERSON'S.

AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION OF THE Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos. 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machines now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

nov8 3m* HEPBURN & PETERSON.

REYNOLD'S

Patent Cut-Off and Governor,

For Steam Engines.

127 of these Invaluable Machines

ARE NOW IN USE

In California and Nevada Territory, giving a perfectly regular motion and

Saving 20 to 75 per cent of the Fuel.

Steen's Improved Governor

IS THE CHEAPEST, SIMPLEST AND QUICKEST TO ACT AND least liable to get out of order of any Governor in use. It can be seen in operation at the Golden State Iron Works, at the Stone Breaker, foot of Montgomery Street and at the Sugar Refinery, 8th Street, San Francisco.

Steam Engines, Boilers, Pipes,

Hydraulic Presses, Shafting, Pulleys, Etc., Etc., bought and sold the best market rates.

Anti-Incrustation Powder,

A sure remedy for Scale in Steam Boilers, without injury to the Iron. In use for the past EIGHT years.

☞ MACHINERY MADE AND REPAIRED. ☜

—REFER TO—

Sugar Refinery, San Francisco,
Cottell & Co., San Jose,
L. A. Booth, Esq., Virginia City,
And 2,000 others in the United States.

E. T. STEEN.

1-tf Nos. 37 & 39 Fremont Street and 42 & 44 Beal Street.

PATENT STEAM BOILER CLEANSER,

—OR—

Antidote for Scales and Incrustation

Formed by the Deposit of Water in Steam Boilers.

Used in all Boilers at the London Exhibition in 1862, By order of Her Majesty's Commission.

G. VENARD,

No. 627 Front Street, San Francisco,

SOLE AGENT FOR CALIFORNIA AND THE PACIFIC COAST.

This Compound has undergone the examination of the most competent Chemists in France and England, and has been pronounced all over Europe the BEST ARTICLE ever found for removing Scales in Steam Boilers, this great evil of industry.

The main qualities of this Compound are: that it removes the scales of any boiler in a few days, no matter how old, and it does not injure the metal in the least. The raising of steam is made easier. It saves fuel and work, and prevents all dangers of explosion.

The Compound has now been in use for three years, and the great success obtained in the Old World induced the undersigned to introduce it in this State, being confident of the patronage of this enlightened and industrious country. G. VENARD,

No. 627 Front street, San Francisco.

☞ Reference will be given to parties using the above, at the Agent's office. 6v8-1m

Owen's River Canal Company.

CAPITAL STOCK.....$1,000,000.

10,000 Shares.....$100 per Share.

A PORTION OF THIS STOCK IS NOW OFFERED TO THE PUBlic, and recommended as an investment.

Full Paid and Unassessable Stock,

Also Assessable Stock, can be obtained of A. J. DOWNER & CO., the authorized Agents of the Company,

406 Montgomery Street.

President.....R. S. WHIGHAM.
Secretary.....W. FISK HITCHCOCK.
Treasurer.....MONTGOMERY GODLEY.
Superintendent.....WILLIAM FLEMING.
Engineer.....J. E. CLAYTON.

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WILLIAM FLEMING.....of San Francisco.
SPIER RIDDEL.....Paying Teller of Parrott & Co's.
ISAAC SWAIN.....of A. J. Downer & Co.
WILLIAM P. FRATT.....of Nash & Fogg.

Office of the Company 328 Montgomery Street. jlt

Removal.

OFFICE OF THE PACIFIC METALLURGICAL OFFICE IS REmoved to 509 Sacramento street. Having enlarged our works at North Beach, we are now enabled to reduce from 10 to 15 tons of Silver or Gold rock per day.

Gold and Silver ore, and Sulphuret Assayers', or Silversmiths' sweepings reduced or purchased.

COPPER ORES—Highest market rates advanced in cash, for Shipments. S. C. BRADSHAW, Agent,

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The Pacific Monthly Magazine.

The only original magazine published on the Pacific coast.

EDITED BY LISLE LESTER,

Recently from the East, comes out in new type, new cover, and fresh in all its material and matter. This Magazine will be devoted to the Literature of the Pacific coast, and will equal any of the Eastern publications in variety, taste and class of its contributions.

The Editress is striving to make it a

HOUSEHOLD WORK.

A new story written by an Eastern lady of talent and renown, commences with the January number. All who wish to read "SHIMAH" must subscribe at once.

The PACIFIC MONTHLY now established on a permanent basis, it numbers among its contributors the best writers of this State, and offers to those who love a chaste, thoughtful and elegant style of literature, attractions superior to those of any other publication on this coast. Its aim will be to elevate the literary standard of this State, and give to the world a truthful picture of the life and literature of California.

The March number is to be illustrated with views around San Francisco.

The Editor's table is alone worth having.

The subscription rates are less than other works of a similar character. All orders promptly attended to.

Office room, No. 45 Government House, North West corner of Washington & Sansome Streets, San Francisco, Cal.

Terms: Per year, in advance $3 00; per year, if payment be delayed three months $4 00; Single copies 25cts; Clubs of five $12 0 Clubs of ten $20 00.

Mining Notices.

Crœsus Gold and Silver Mining Company, Turnback District, Tuolumne county, Cal.—At a meeting of the Board of Trustees of the Crœsus Gold and Silver Mining Company, held the 4th day of February, A.D. 1864, an assessment of ten cents per share on each and every share of the capital stock of said Company, was duly levied, payable immediately, in U. S. gold coin, to the Secretary, at the office of the Company, south-east corner Howard and Second streets, San Francisco. By order of the Board of Trustees.

San Francisco, Feb. 5, 1864. [6v8-5t] J. F. HARRIS, Sec'y.

Bay State Gold and Silver Mining Company, Turnback District, Tuolumne county, Cal.—Notice is hereby given, that the annual meeting of the stock-holders of the Bay State Gold and Silver Mining Company, for the election of officers for the ensuing year, will be held on the first Monday in March, at the office of the Company, south-east corner Second and Howard streets, San Francisco. By order of the Board of Trustees.

San Francisco, Feb. 5, 1564. [6v8-5t] J. F. HARRIS, Sec'y.

Crockett Copper Mining Company, Copperopolis, Cal.—Notice is herchy given, that at a meeting of the Trustees of the Crockett Copper Mining Company, held January 2d, 1864, an assessment of one ($1) dollar upon each and every share of the capital Stock of the Company was levied, payable immediately, in gold coin, to the undersigned, or to J. M. Pike, at Copperopolis; being assessment No. 2. On the 1st inst. the Trustees als o levied another assessment, being No. 3, of one ($1) dollar per share upon each and every share of the capital stock of the Crockett Copper Mining Co., payable the same as assessment No. 2. Persons having interests in the Company are requested to come forward, provo title, and receive their certificates of stock. ISAAC HECHT, Sec'y,

No. 417 and 419 Sacramento street.

San Francisco, February 5th, 1864. 6v3-5t

Office of the Montezuma Gold and Silver Mining Company, No. 62 Government House, corner of Washington and Sansome streets, San Francisco. Feb. 5th, 1864.—Notice is hereby given, that a sufficient number of shares of the capital stock of the Montezuma Gold and Silver Mining Company, standing in the name of the following person, will be sold at public auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, on WEDNESDAY, March 9th, 1864, at 11 o'clock A. M., to pay an assessment of 12½ cents per share, levied April 27th, 1863, together with expenses of advertising and sale, unless said assessment is previously paid, with accruing charges—viz: Hugh McCormick; 247 shares; amount due, $30.87½. By order of the Board of Trustees.

6v8-5t C. A. CRANE, Secretary.

Triunfo Gold and Silver Mining Company.—At a Meeting of the Trustees of the Triunfo Gold & Silver Mining Co. held January 23d 1864, an assessment of One ($1) dollar per share was levied on each and every share of the assessable stock of the Company, payable immediately to the Secretary, at the Office of the Company, No. 1 Government House, in United States Gold Coin.

5v8-5t HENRY S. BROOKS, Sec'y.

Table Mountain Copper Mining Company, Office 528 Montgomery street, San Francisco, January 16, 1864.—Notice is hereby given to the stockholders of the Table Mountain Copper Mining Company, that an assessment (No. –) of one dollar ($1) per share was this day levied on each and every share of the capital stock of said Company, payable immediately, in U. S. gold coin, to the Secretary, or to J. M. Pike, Superintendent, at Copperopolis. By order of the Board of Trustees.

4v8-1m M. G. ELMORE, Secretary.

Bankers Gold and Silver Mining Company, Gold Hill District, Storey county, N. T.—Notice is hereby given that the Trustees of the Bankers Gold and Silver Mining Company have this day levied an assessment of fifty cents per share on each and every share of the capital stock of said Company, said assessment payable immediately, in gold coin, to the Secretary, at the office of the Company, No. 620 Washington street, or to R. C. O'Neill, Superintendent, at Gold Hill, N. T. W. AUGUSTUS KNAPP, Sec'y.

January 18th, 1864. 4v8-1m

Prima Donna Gold and Silver Mining Company, Devil's Gate District, N. T.—Notice is hereby given, that the Board of Trustees of the Prima Donna Gold and Silver Mining Company, at a meeting of said Board, held January 19th, 1864, levied an assessment (No. 5) of fifty cents on each and every share of the capital stock of said Company; said assessment payable immediately, in gold coin, to the Secretary, at the office of the Company, No. 620 Washington street, Room No. 3.

4v8-1m H. B. CONGDON, Secretary.

Mount Eden Mining Co.—Notice is hereby given, that the Board of Trustees of the Mount Eden Mining Company, at a meeting held January 2d, 1864, levied an assessment of One Dollar on each and every share of the Capital Stock of said Company, said assessment payable immediately in gold coin to the Secretary, at the office of the Company, No. 620 Washington street, Room No. 3. H. B. CONGDON, Secretary.

San Francisco, January 16, 1864. 3-5t

Black Swan Gold and Silver Mining Company, Reese River District, Lander county, N. T.—Notice is hereby given, that the regular annual meeting of the stockholders of the Black Swan Gold and Silver Mining Company will be held on the first day of March next, at 4 o'clock P. M., at the Company's office, No. 305 Montgomery street, San Francisco. By order of the Trustees. J. S. LUTY, Secretary.

San Francisco, Jan. 27, 1864. 5v8-5t

Brown's Bronchial Troches for Coughs and Colds.— A neglected Cough, Cold, an Irritated or Sore Throat if allowed to progress, results in serious Pulmonary Bronchial and Asthmatic Diseases oftentimes incurable. Brown's Bronchial Troches reach *directly* the affected parts, and give almost immediate relief. For Bronchitis, Asthma, Catarrh, and Consumptive Coughs the Troches are useful. Public Speakers and Singers should have the Troches to clear and strengthen the Voice. Military Officers and Soldiers who overtax the voice, and are exposed to sudden changes should use them. Obtain only the *genuine*. "Brown's Bronchial Troches" having proved their efficacy by a test of many years, are highly recommended and prescribed by Physicians and Surgeons in the Army, and have received testimonials from many eminent men. Sold by all Druggists and dealers in Medicine in the United States and most Foreign countries at 25 cts. per box.

Agents for California, Redington & Co., San Francisco. 5-1m

MINING AND SCIENTIFIC PRESS.

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The Mining and Scientific Press contains 16 pages in each No., and 417 in each volume; two volumes a year. Terms, in advance, 1 year $5; 6 mos. $3; 5 copies, 1 year, $20. For sale by all newsdealers. Liberal comulsions allowed all who act as agents.

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Correspondence from competent writers is respectfully solicited upon all topics of interest to the general readers of the Press. Persons possessing a knowledge of new discoveries, curiosities, important improvements or developments, who have not the time or experience to write their observations elaborately, can send us the substance in a few words, and we will care for the rest. The real name of the author must be received, which will be kept confidential.

We have received No 1 of the enlarged Mining and Scientific Press, published by Dewey & Co., San Francisco. It is greatly improved, and gives promise of an excellent, able and reliable journal.—*Marysville Daily Appeal.*

Mr. A. T. Dewey, a journalist of experience, has become associated with Messrs. Ewer and Smith in the proprietorship and conduct of this paper. It inaugurated the new year by doubling its size and other improvements, and is now a first class journal for miners and mechanics, as well as for the general reader.—*Sacramento Daily Bee*

This journal comes to us this week with a new head and enlarged to the full size of the *Scientific American* published in New York—sixteen pages. Those who take an interest in mining, industry and art should not fail to read the prospectus of the Press, which may be found in our advertising columns, and those who may desire to see copies, intending to subscribe, will have specimens sent free on application by letter to the office of publication.—*Mountain Messenger, La Porte.*

We have received the first number of the eighth volume of this interesting paper. It is now under the control of friend Dewey, and has been enlarged to sixteen pages. We commend it to miners, stock dealers, and others taking an interest in the development of the mineral lands of this State. It can be had for $5 a year, and if preserved will make two volumes of interesting matter, containing 416 pages each.—*Red Bluff Independent*

We find its pages filled with mining news and articles of interest to miners and scientific men. Persons interested in mines in this State, Nevada Territory, Arizona or Mexico, should certainly subscribe for the Press.—*Napa Reporter.*

It has been enlarged from eight to sixteen pages, and promises to be a valuable publication.—*Sierra Democrat.*

Is is full of the most valuable reading matter. Those at all interested in mining affairs should subscribe for it at once.—*Alameda Gazette.*

It is devoted to news, art, science and progress, and should receive a liberal support.—*Solano Press.*

The Mining and Scientific Press comes to us enlarged to double its old dimensions, and otherwise improved. The Press is the only journal on this coast devoted exclusively to mining and scientific matters, and should be read by miners everywhere. It is published weekly, at $5 per year.—*Oroville Union.*

CAUTION.

Notice is hereby given that the following mentioned Certificates of the stock of the Prima Donna Gold & Silver Mining Company were, on the 5th day of February 1864, sold at public Auction, according to Law, for non-payment of assessments due thereon, and will not be transfered on the books of the Company, viz:

NAMES.	NO. CERT.	SHARES.
Olof Broner	193	5
E. H. Coe	135	25
Jas. Flanagan	169	5
Henry J. Hyland	168	5
Jas. G. Lambert	39	5
H. McKinaly	164	10
H. McKinaly	165	10
H. McKinaly	166	5
E. R. Potter	35	5
A. S. Rogers	116	10
W. L. Sparrow	95	15
Frank Telan	132	10
O. F. Von Rhein	157	5

7v8 2t H. B. CONGDON, sec'y.

Silver Butte Consolidated Silver Mining Company.— Office 528 Montgomery street, San Francisco. Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Silver Butte Consolidated Silver Mining Company, there will be sold at public auction, at the office of the Company, San Francisco, on SATURDAY, February 27th, at 11 o'clock A. M. of that day, to the highest bidder, for cash, in United States Gold coin, so many shares of the capital Stock of said Company, standing in the names of the following shareholders, as will be necessary to pay assessment Nos. 2 and 3, duly levied thereon, and now being due and unpaid, together with the expense of advertising and sale—to wit:

Name.	No. cert.	No. Ass't	Shares.	Amt.
Browning, John	137, 138, 139	3	25	$12 50
Beuchamp, J. W	100, 239	2 and 3	20	20
Butman, H	152	3	2	1
Cross, J	191	3	25	12 50
Ebeling, F	131	3	1	50
Erskine, Geo. B	301	3	3	1 50
Fallon, M. M	111	3	1	50
French, B. F	178	3	5	2 50
Johnson, B. R	163	3	1	50
Johnson, O. H	54, 144, 146	2 and 3	26	26
Johnson, G., H	25, 56, 236 240, 257, 258, 259	3	35	17 50
Keck, H	192 to 199 in., 201	2 and 3	125	125
Leomis, Riley	135, 354, 355, 356	3	26	13
Lord, T. B	371	3	64	32
Littlefield, J. D	84, 85, 88, 89, 214, 216	3	81	40 50
Mains, J. R	41, 42, 48, 49, 304	3	27	13 50
Merlam, E. D	404, 266	2 and 3	21	21
Manchester, A	100	2 and 3	6	6
Norcross, J. K	184	3	2	1
Osborn, W. F	349 350 361	3	23	11 50
Percival R	66, 91, 95, 98, 282	3	12	0
Sproul, J. B	211	3	5	2 50
Stratton, S	212, 339	3	20	10
Wood, Sarah	243, 352	3	6	3

By order of the Board of Trustees. M. O. ELMORE, Sec.

Mammoth Consolidated Gold & Silver Mining Co., Excelsior District, N. T.—Office 528 Montgomery St., San Francisco, Nov. 28, 1863, Notice is hereby given that there will be sold at Public Auction, at the office of the Company, in San Francisco, on Saturday January 9th., 1864 at 12 o'clock, M., of that day, to the highest bidder, for cash in U. S. gold coin, so many Shares of the Capital Stock of said Company standing in the names of the following shareholders as will be necessary to pay assessment No. 1., of ten (10) cents per share, duly levied thereon by the Board of Trustees on the 9th. of May, 1863; also assessment No: 2., of thirty (30) cents per share, duly levied thereon by the Board of Trustees on the 27th of June, 1863, together with all the expenses of advertising and sale, unless said assessments are previously paid to M. G. Elmore, Sec., San Francisco, or to W. H. Dalrymple, Financial Sec., Aurora.

Names	No. Cer't.,	No. Ass't.,	Shares,	Am't.
J B Best	74 343	1 2	800	115 00
G W Bally	344	1 2	200	80 00
J J Coddington	358	1 2	56¼	22 50
D C Crooker	334	1 2	250	100 00
T A Cutter	25 393 to 403 incl'	2	125	37 50
J R Dudleston	27 28	1 2	50	20 00
WD Garland	437 442 450 451 508	2	275	82 50
D H Haskell	65 to 69 incl'	1 2	50	20 00
James Jaques	333	1 2	250	100 00
R P Johnson	443	2	100	30 00
J H Latcham	283 284 288 to 291 incl'	2	00	16 93
E J Mathews	4	2	200	60 00
W Mason	92 462	2	13	3 90
John Patten	410 417	2	15	4 50
Geo Raymand	126 to 131 incl' 136 to 142 incl'	2	125	37 50
G H Rogors	143 to 151 incl'	2	200	60 00
J S Shultz	361 487	1 2	95	38 00
G D Myers	360	1 2	5	2 00
A J Severe	170 to 189 incl'	2	200	60 00
N Steiner	118 to 124 incl'	1 2	100	40 00
H S Van Dine	218 338	1 2	175	68 75
H Watson	263 to 267 incl'	2	25	7 50
J C Darragh	268 to 274 incl,	2	50	15 00
J M Meredith	77, 446, 447	2	100	25 00
J Hawkins	73, 452, 456, 455, 454	1 2	175	70 00
C E H Wheaton	570	1 2	25	10 00

By order of Board of Trustees.

M. G. ELMORE, Secretary.

The above sale is postponed until Saturday, January 30th, 1864 at the same place and hour. By order of the Board of Trustees

2 M. G. ELMORE, Secretary.

The above sale is postponed until Saturday, February 27th, 1864.

6v8-3t M. G. ELMORE, Secretary.

It is Impossible for editors to know all the merits and demerits of their correspondence, consequently the reader must not receive the opinions of our contributors as our own. Intelligent discussion is invited upon all sides, and the evidence of any error upon our part will be received in friendship, and treated with respect.

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. The Mining and Scientific Press Patent Agency has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

Back Numbers.—We have a limited number of past volumes of the Press on hand, which will be sold, neatly bound, at reasonable rates. A portion of the back numbers of the paper can be had by the single copy.

AND SCIENTIFIC

Mining Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

VOLUME VIII. SAN FRANCISCO, SATURDAY, FEBRUARY 27, 1864. NUMBER 9.

Editorial.

VENTILATION OF MINES.

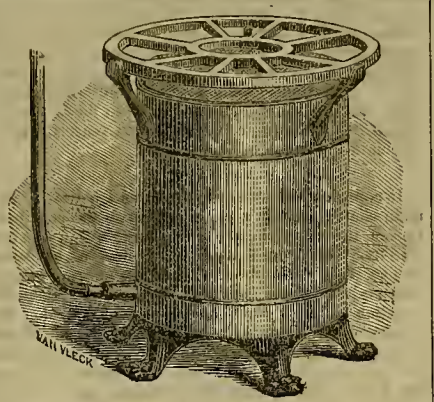
In pursuing this subject we have thought proper, while the nearly fatal accident from an explosion in a mine near the Marysville Buttes is fresh in the minds of our readers, to throw in a chapter upon

GASES IN MINES.

Had the four unfortunate men, who were so severely injured by that explosion, been in possession of the information herein communicated, that accident might never have occurred. The two gases to be chiefly guarded against in mines are "carbonic acid" and "light carburetted hydrogen" or "fire damp."

Carbonic Acid is heavier than air, and will hence seek the lowest places in a mine, or shaft. It supports neither combustion or life; hence its presence may be readily ascertained by lowering a lighted candle, before descending where its presence is suspected. If the candle goes out, life cannot exist there, and the deleterious gas must be expelled before descending. This gas is produced to a greater or less extent in all mines, by the respiration of the workmen, the burning of candles, explosion of powder, etc.

Light Carburetted Hydrogen, or "fire damp," is lighter than common air. Its specific gravity is 0.999, barely light enough to admit of its ready diffusion through the atmosphere, but not sufficient to cause it to move upward, through it, and float away. Its presence may be readily known by the nauseous, suffocating sensation which it produces. It is not dangerous to respiration until it constitutes $\frac{1}{3}$ of the entire volume of atmosphere. At this point the amount of oxygen is insufficient to support life, and the lamp ceases to burn. But the most dangerous property connected with this gas, and that which renders it so dreaded by miners, is its tendency to explosion, when mixed in certain proportions with common air, and in that condition brought in contact with a flame. When it is mixed with air in the proportions of 1-30 to 1-15 of the whole volume, it burns gradually, but without explosion. Its presence may be recognized by an elongation of the flame of the lamp or candle. The elongation is barely perceived when the proportion is 1-30, and gradually increases, until the proportion reaches 1-15. When it reaches 1-14, the inflamation is gradually propagated through the entire gaseous mass — oftentimes, running off from the flame, in a ball or globe of fire, and continuing in a straight direction towards the point of escape, or greatest accumulation of gas. The late gas explosion, under the Masonic Temple, in this city, was a case similar to the one we are supposing. It will be recollected that the person striking the match noticed as it were a ball of fire, start from the lighted match and run towards a certain point—the locality of the leak—at which it suddenly exploded, bursting in fragments the heavy plate glass of the doors and windows. At the point where the match was lighted, the proportion of gas was probably about 1-14th; nearer the leak it must have been greater, probably about 1-12th, or perhaps 1-11th; of course, when the flame reached that locality an explosion, more or less violent, must have ensued. The proportion which will produce the most violent explosive force, is from 1-8th to 1-9th. When



A NEW GAS COOKING STOVE.

the proportion exceeds that point the explosive power is less, until it reaches 1-3d when the mixture will not burn at all. It is somewhat remarkable that nothing but a flame, or an electric spark will produce the above results. Hot iron, when plunged into the mixture, is without effect.

Speaking of the non-explosive qualities of this gas, under certain conditions—and we may here remark that the common illuminating gas, in general use, is almost identical with the "fire damp" of the mine—reminds us of a circumstance which took place in Boston at the time of the first introduction of gas into that city, and when its nature was not so well understood by the masses as now. The gas company had erected a large gasometer on that part of Washington street called the "neck," which was even then a populous neighborhood. The people of that vicinity remonstrated on the ground of danger from an explosion, particularly from the possible contingency of a stroke of lightning. The gas superintendent was summoned before the Common Council to "show cause," etc. Among other questions he was asked what would be the result if the gasometer should be penetrated by a stroke of lightning. The superintendent very quietly answered, that the most probable result would be that the electric spark, although on the gigantic scale supposed, would be effectually *extinguished*, by such intrusion! Certain it is, that when unmixed with atmospheric air, few substances are more antagonistic to fire than inflammable gases.

To return from this digression—the gas of which we are speaking escapes from the mud of swamps and stagnant water, and is always more or less abundant in all coal mines. It oftentimes rushes from seams in the rock and coal with such force as to produce a slight hissing sound. We are told that the men at work in the mine, already alluded to, at the Marysville Buttes, had noticed the entrance of this gas into their tunnel for several days previous to the explosion. They had even amused themselves with *setting it on fire* as it issued from the seams in the rock. And yet did not think of the danger that might arise from its collection. In coal mines it is most frequently found issuing from the seams of rock which lie between the veins of coal. It is usually noticed in greatest abundance, near faults, threads and other irregularities in the rock or coal.

The presence of one or both the gases alluded to may always be found in all unfrequented mines and shafts, especially in the neighborhood of coal and mineral springs. It is one of the most important and indispensable requirements that the miner should be able to disembarrass himself of these noxious gases and secure the presence in his mine of pure air. The object of this series of articles on the "Ventilation of Mines" is to teach the miner how to accomplish this end most effectually and cheaply, and to inform him at some length with regard to the philosophy of the means which he may be required to employ.

[TO BE CONTINUED.]

A GAS COOKING STOVE.

The accompanying engraving represents an improved arrangement for the use of gas for cooking and heating purposes, invented by Messrs. Heald & Binney, of this city, and for which letters patent have been applied for through the Mining and Scientific Press Patent Agency. The principal novelty in this invention consists in the peculiar arrangement of the burners, by which the heat is most effectually economised, and when necessary for baking or warming, uniformly diffused over the desired surface. The stoves themselves are portable, and can be conveniently placed upon a shelf table or the floor, if desirable, and readily connected with any ordinary gas fixtures by the pipe which is upon the left of the engraving.

The advantages of these stoves over those which use spirits, in immunity from danger, as well as in economy, must be apparent to every one at all acquainted with the use of spirit lamps. A single stove of this description is amply sufficient to do the ordinary cooking of a small family, at less expense than the same amount of cooking could be done by the use of wood, while all trouble of kindling fires, and dirt and dust of ashes, fuel etc., is entirely avoided.

Gas is now being extensively used for cooking purposes at the East, even in hotels and restaurants, as well as in private residences. In this city, especially, where wood commands an exorbitant price, and must still farther advance, the use of gas for cooking purposes may ere long become quite desirable. For heating also, in our mild climate, where fires are needed only at intervals, and then in but small quantity, gas will be found quite as economical as wood, or more so, and incalculably more advantageous in point of neatness and convenience. We would recommend to all desirous to test its practicability and economy to procure one of these neat and convenient articles here represented. Further information may be obtained on application to Dr. John Heald, 313 Montgomery street.

From El Paso.—Our El Paso correspondent writes that several companies in that vicinity are making arrangements for an early development of their mines. Dr. F. J. Hughes, an old Washoe miner, has recently purchased an interest in one of the most promising mines, and has taken contracts to sink prospecting shafts on two others. The arastra recently put up on the Rochester lead had commenced operations, and returns of the yield would soon be made. We presume that working tests will also be made of other leads, the results of which we shall be pleased to learn. We have much confidence in the value of the mines of that vicinity. The specimens which we have received from that region are certainly very promising.

Correspondence.

San Andreas, Calaveras County.

FROM OUR TRAVELING CORRESPONDENT.

Mr. Editor:—It is some three years since I visited this town. It was then beginning a downward course which I am sorry to see has continued to the present time, and left it much depopulated and stagnated. The great question here, of late, has been the removal of the county seat from Mokelumne Hill; and a large sum of money has been collected from the citizens of both places and spent in law, which I do not think will pay them a very good interest. Generally through the county there is a strong feeling for the change, and the vote at the last general election was cast in its favor, and now it goes before the Supreme Court for final adjustment.

With this dispute we have of course nothing to do, one way or the other, beyond the extent it effects the mining interests of the neighborhood, and that I assure you is considerable.

I have been pondering over the matter lately and I really think it would be good policy for each of the towns, within the copper-system, to raise a sum of money, whatever each may be able to do, and loan it out in small sums, on reasonable terms, for the development of their own immediate mines. There can be no safer investment or more promising speculation. The Atlantic States, to begin with, want 28,000,000 lbs. of copper annually from some country. If the metal could be obtained at reasonable rates they would use twice that amount. In three years time, I am certain, if our copper mines were thoroughly opened and properly worked, we could readily double the present home produce, viz: 12,000,000 pounds. Now, gentlemen take your pencils and calculate the profits. See the present price of copper in New York, and then tell me whether I am wrong in saying that one third of the capital sent annually to Washoe, if invested in our own copper mines, would not almost quadruple our annual revenue, and pay off the State debt in the bargain. One thing however is sure, two thirds of the gold we now export, to pay for what we buy, might be kept at home for internal improvements, and that would be about $24,000,000. Some perhaps think this estimate too high. Very well, reduce it one half—I am willing—for even then the result will be immensely in favor of my argument. Take for an illustration the towns of Copperopolis and Mokelumne Hill during the last three years. For the one, copper has built up a respectable town, with six hundred voters; a large and flourishing business of all kinds, daily increasing; abundance of employment for laboring men and mechanics; and nine steam mills in constant occupation. The county seat, for the other, keeps a large town in a state of chronic decrepitude; has not built a single house; gives no employment to laborers or mechanics; brings no permanent population to the place; and at best only keeps some nine whisky mills in full blast. What then would be the general prosperity if we could only arouse public attention to this important subject, and get the numerous copper mines I have reported as in a healthy condition, once thoroughly opened?

I have been led into these remarks because on an examination of the country I find that the veins of the extreme northern system show themselves as strongly here as elsewhere; but the general interest in this source of wealth is dead and low for want of capital. It is on this ground that I presume to advise the people of each place to drop the county seat question, withdraw what money is deposited to contest the same, and devote it to the development of their mines; for in the end I am sure if it is thus applied it will yield a better interest than in the hands of the lawyers; at least I think the "indications" more flattering. It is a bad thing to look for "yellow sulphurets" amongst that class of our population. Near the town, about a mile below on the Stockton road is

GOLD HILL CLAIM.

It contains 2,400 feet in 150 feet shares. Two shafts—first 50, second 60 feet. In this claim they have made a serious mistake in the location of the vein, as I afterwards proved to Mr. Founken. I think it is a continuation of the North Star which opens so handsomely at Jamestown. For two miles from the first shaft and again near Mokelumne Hill, near the Flume House, it shows equally strong. This I believe is the richest vein in the northern system. The second shaft sunk by the company is not on the vein, and besides being in serpentine it is a location so badly chosen I doubt if it will ever be useful to any one. On a parallel vein to the east is the

CHIMNEY ROCK.

Such at least was what I understood the name. Here they have run a very handsome tunnel through good slate and talc, 125 feet with about 25 feet more to run before cutting the vein. Altogether the prospects are good. Work is to be resumed immediately. East of these two veins, a short distance, is the

ELLIS.

It contains 1,100 feet in six shares. They have sunk two shafts, respectively 42 and 70 feet. The latter cannot possibly be on the vein. The first is sunk in serpentine which is so strangely out of its right course and so blended with the vein, from a slide, that it presents many difficulties. The vein rock, though uncommonly hard upon the surface, is strongly developed. I should advise the company to cut from the shaft into the vein, only a few feet, as the quickest and safest plan of ascertaining their future prospects. This is a promising vein, but the company have chosen a bad site on which to commence operations. Almost anywhere between this shaft and Mr. Ellis' house would have been better. Below this claim some two miles, at Greasertown, on the main Calaveras, is the

FAIRCHILD.

It contains 100 feet in four shares I believe. The main shaft is 103 feet. I think it is on the continuation of the Copperhead and remarkably promising. The foot wall opens splendidly, showing a vein some 20 feet wide, with a good cast of mundic, copper pyrites and yellow sulphurets. Work here is suspended; but ought by all means to be resumed. Mr. Bovee, of the Contra Costa Laundry, is one of the principal owners, and Mr. Fairchild is anxious for him to see this report. I do not know whether he takes the Press or not. Let the company quit drifting and go on down; from the character of the slate I judge they cannot have many more feet to go. On the opposite side of the river, on the continuation south is the

CALAVERAS UNION.

It contains 2,200 feet in 22 shares. The main shaft is 40 feet, showing as I understand, equally well, though I did not see it. Work is suspended till the Fairchild shaft goes down, and that will develop both claims. Mr. Snyder informed me the two companies would probably consolidate, or else they would bear a proportion of the expenses of sinking the Fairchild 25 feet deeper. The idea is a good one and ought to be carried out without delay. We now return to San Andreas and go north. Mr. Bowman was polite enough to give me a seat in his buggy and we first visited the

UNION TUNNEL CO.

This claim contains 2,300 feet in 12 shares. The tunnel is in 500 feet and was originally run for gold, but about half way they cut an exceedingly rich vein of copper and sunk a shaft upon it. They had to contend with so much water that work is suspended till the company can erect machinery. This will eventually be a good claim. We proceeded thence, some five miles, to the

CALAVERITAS TIN CO.

It contains 2,400 feet in 12 shares. Main shaft 50 feet, showing the vein reliably developed. Work being suspended I could not go down. Here, as at Murphy's, the peculiarities had puzzled the knowing ones, until Dr. Oviatt suggested the probabilities of tin; there sure enough it is. From this place we proceeded west some two miles to the

BUCKFIELD.

It contains 4,200 feet in single foot shares. The main shaft is 39 feet opening well on good croppings, with foot wall well developed and a vein already three feet wide. The vein appears to be promising, but I think from the character of the rock they will have to go to considerable depth before they can hope to reach good ore. The Buckfield will eventually hold a prominent position. Again, two miles on the same course, we proceeded to the Angels Camp road to the

SAN ANTOINE.

It contains 3,200 feet in 12 shares. Main shaft 126 feet deep. This, in my opinion, judging from external appearances and the character of the rock, is also a continuation of the North Star. The walls show themselves 100 feet apart. They have left the foot wall and are now going down on the hanging wall. The rock hitherto has been quite soft, but they have recently struck a very beautiful, rich, talcose slate, of great promise. Work is suspended for the present. This vein I think will some day make a great noise.

These are all the copper mines under development in the vicinity of San Andreas, except the Darling, the particulars in regard to which I did not obtain, but which I will mention in my next, in speaking of the gold mines of the district, which are well worthy of a separate notice. I shall now turn to the copper mines of

MOKELUMNE HILL.

At this place they have been under the impression that they had no copper veins, and I confess I was for some time at fault in locating them. After a little hunting however with Mr. Darling, who has had considerable experience in the Irish and Australian copper mines, and who has a very correct knowledge of every branch of the business, I finally located the veins of the Jamestown system, five running on the east side of the town and two on the west. The trouble here lies in the fact that the veins are entirely covered with lava, so much so that only two of them crop out. From this time forward the people here may rest satisfied they have just the same prospect for copper as their neighbors, whose apparent good fortune they have envied. I hope this fact will create a new life and energy amongst them, for it is sadly needed. If the people of Mokelumne Hill desire to keep up with the spirit of the age they should take the Mining Press, and learn the great things going on in the world. As it is they are two years behind the mining spirit of the day. Rouse up, my old friends, to the wealth within your grasp, and then this great exodus to Reese River, with which you are threatened next spring, will not take place. If you would keep among you what few are left, imitate the example of Copperopolis and Camp Seco—develop your own mines. Mr. Innes has located immediately below your race-track what will probably prove one of the richest veins in the entire formation between Hog Hill and St. Domingo, and it looks as well there as any where else. Besides you have the two tin veins developed at Happy Valley, immediately west of the town. Stir up, then, from your lethargy and remember that "God helps those who help themselves." At present there are only two claims at work in this neighborhood. The first is about a mile east of the town—the

INDEPENDENT.

It contains 3,800 feet in single shares. Main shaft 77 feet opening well, with both walls developed and vein three feet wide, healthy and promising. At present, from being opened in a low rugged ravine, the walls are bolted and pinched. The vein rock however is a handsome black slate with a good cast of mundic and yellow sulphurets. I consider the claim as a promising one. A short distance east of this, on another vein, is the

ALADIN.

It contains 4,000 feet in 20 shares. Main shaft 85 feet showing a rich, handsome vein 4 feet wide, and both walls well developed. This is a fine claim in every respect; the vein may be struck any day, and I have no doubt in a short time developments will be made that will wake the Mokelumnians up, who now sit under their awnings and shade trees, enjoying a cigar, the genial sunshine, balmy air, splendid fruit, with heaps of *law*, and think it very fine, will find to their sorrow there is something better than all this, so far as the great interests of the community are concerned, and that is a reliable and well developed copper mine.

L. H.

A New Use for Alcoholic Fluids.—Rum has recently been applied to an entirely new purpose. In addition to being used to paint the human face, by internal application, it is now employed as a substitute for turpentine in the mixing of paints. An exchange suggests that still farther experiments should be undertaken to ascertain if its kindred alcoholic fluids—brandy, whisky, gin, etc., may not also be more usefully employed in that direction than in their present universal use of painting humanity. By the late telegraphic reports from the East we notice that "whisky" seems to be a more important institution, just now, than "nigger." Government seems determined to make something out of it, at all events—in the way of taxes. The committee on "Ways and Means" has probably derived a few hints from our recent Russian visitors, whose home government, long since learned how to turn the morbid tastes of their people to good account in the way of replenishing the national treasury. Russia derives an annual revenue of *ninety millions* of dollars from *brandy alone!* Its a better idea for our own government to carry out, and one that will pay more too, than taxing the mines.

(Written for the Mining and Scientific Press.)

A Trip to Surprise Valley.

FROM AN OCCASIONAL CORRESPONDENT.

Messrs. Editors :—An account of this extensive and fertile valley, lying amidst the sage brush and alkaline deserts of this Territory, may not prove uninteresting to your readers. You may therefore receive the annexed description as a faithful representation of that which really exists.

This valley lies immediately under or east of a spur of the Sierra, about 100 miles northwest of Humboldt, and 40 miles north of the Honey Lake road—a valley affording a natural road from Surprise to near Deep Hole Station. The Sierra, or its spur, is clothed with the most luxuriant herbage to the snow line, while the entire range is densely timbered with the sugar pine, so excellent for lumber purposes, and with cedars adjacent to the valley itself. The numerous streams supplying the lakes are of considerable volume and velocity, and will afford ample and perpetual power to the mills that must, ere long, be erected to cut the timber of the mountains, and convert the grain of the valleys into food. The soil is entirely free from alkaline deposits, being a rich alluvium, perfectly loose, and of considerable depth ; while each year brings from the surrounding mountains a fresh supply of all the requisites to make up the pabulum of the various crops that can be produced. The temperature of this valley is much higher than almost any other portion of this Territory ; its protected position and low altitude render it a most desirable agricultural, cereal and root-producing locality, while the natural growth of a superior quality of grass is at present equal to three ton of hay to the acre. The soil is far superior to that of the Russian river bottoms. These are also the opinions of a farmer from that section, who visited and examined the soil of this valley. Besides the large streams that issue from the western range, numerous springs well-out from the foothills, so that each ranch has at hand ample means of irrigation where needed. The valley is well nigh surrounded by mountains, and is about 70 miles by 30, length and breadth, with a low, narrow valley, affording, as before stated, at its south end an easily outlet to the great highway between California and Humboldt, *via* Honey Lake. The increasing population of this country, the daily development of increased mineral wealth, the numerous towns springing up, and the great amount of travel on the Honey Lake road, must soon make farming and the lumber trade in this region pursuits of immense profit. From no other place yet discovered (and I do not think any other such timber land will be found nearer—indeed, I may speak positively on this point, for I have traveled this county extensively.) can lumber be supplied so readily and cheaply. The consumption in this county of flour, horse feed, potatoes, beans, etc., etc., amounts monthly to many tons, and is steadily on the increase, all of which can be produced in this valley.

The Humboldt river bottom cannot begin to touch this valley in the yield of any one article, while the liability to overflow must render farming on the river uncertain. The demand for the above articles will be very considerable on the Honey Lake road. It is by that route that all this county receives its freight, and from the improved character of the Chico and Tehama roads, the travel in this direction will increase. Moreover, this coming season there will be a large amount of travel to the Boise and Northern mines, with every prospect of a steady communication, *via* the Humboldt river, to and from the American Possessions north.

When the great Pacific Railroad re-echoes to the sound of the rolling car, then how immensely will the demand for produce be increased. Again, it will not be long ere the English will find that they too must lay their rail from Columbia, to unite most probably with the Pacific Railroad. Already contracts have been made by the English Government to carry the telegraphic wire across the continent, soon to be followed by the locomotive.

Let us look at another item. The Goose Creek mountains, on the Great Emigrant road, about 250 or 300 miles northeast from this, are known to be rich in mineral, and will most probably be prospected the ensuing spring ; hence an increased population will be drawn hitherward, and every man and beast that comes into this county is so much custom and consequent profit to the grain and hay producer of Surprise Valley. Some of your readers may think me visionary ; but those who have lived here for the past two years, and witnessed the growth of this section, must be convinced that this is no day dream, but that a very short period will more than realize the statements herein made.

The ranges which bound Surprise Valley have not been prospected, but the indications warrant the belief that gold and silver will be found there. The ranges 30 miles east, and 50 miles south, towards Pyramid Lake, have several mining districts located on them, and will shortly be thronged with a busy people. Fairview District, where the Silver Wave and Vicksburg ledges are located, is being opened even now, and soon we may expect that the new town site of Pyramid City will become something more than a name.

Many settlers are moving into this fertile valley, and ranches, mill sites and lumber claims are already pre-empted, so that by spring we may reasonably anticipate a goodly society of the wealth producers of a country. The farmer ranks foremost to the miner, though both reciprocate and develop the country. It is highly important that every encouragement and protection should be given to the settlers of this valley, for should ruthless war break out amongst the great nations of earth, and the specks in the horizon, though now "no bigger than a man's hand," grow rapidly and mightily, we on this coast might be suddenly cut off from the resources of the East, and left to shift as best we might. Here in this valley we can raise our own flax, hemp, tobacco, beef, mutton, wool, etc.; for the pasture lands are incomparably superior to anything in California, and all the cereals, fruits and edibles necessary to man's use can be produced in abundance. None need fear droughts; the snow-capped Sierra will always keep the streams well supplied.

Such is a brief view of this valley, so far as examined, destined to become the granary of this country. When I further survey this natural garden, if anything worthy of note occurs to me, I will communicate it. Fish and game are plentiful. H. O. G. S.

Humboldt County, N. T., Feb. 12, 1864.

[Written for the Mining and Scientific Press.]

From the Humboldt Mines.

Barbersville, Sierra Dis't., Feb. 1, 1864.

Messrs. Editors :—According to promise, I will give you a few items in regard to such claims as have come under my observation since I returned to this district. I have been absent a little over two months, and on my return I find the prospects for the future of Humboldt County brighter than ever, and the time is not far distant when this will be counted as one of the richest mineral districts known. I don't know of an instance where work has been prosecuted, either in tunnel or shaft, where any reasonable expectations have not been fully realized. In some instances work has been temporarily suspended for want of funds, but in nearly every case will be resumed again as soon as arrangements can be made for capital ; and that will come as soon as men of means become properly acquainted with our resources.

I have visited a number of ledges since I returned, which I will speak of in rotation, as I saw them ;—First the Badger and Annie Copper Co., are going ahead with their tunnel. They are in now nearly 200 feet, with good indications for striking their lead very soon. The company have great expectations when the lead is struck, as the croppings and spurs show very rich in silver and gold. Near by, and running parallel, is the Crœsus, celebrated for its richness in gold. This company is not doing anything just now, but I understand are to resume work very soon, and that they furthermore intend to erect a mill in the Spring. The superintendent recently sent some of the refuse rock to San Francisco, where it was worked by mill process, and yielded at the rate of $79.00 per ton in gold. The ledge is very large. They have both a tunnel and shaft in progress. The next company which I visited was the Steamboat Co.'s Works, on the Chrysopolis lead. Found no one at the works, as the contractors had completed their contract for fifty feet of tunnel the day before. The tunnel is in some 80 or 90 feet ; the ledge seems to be some two feet thick and looks well. Near by is the Ne Plus Ultra Company, who have a tunnel in progress. The quartz and mineral is very similar in character to the Chrysopolis. The Grass Valley Co., on the first extension north, have an incline down on their lead 26 feet, which shows splendid mineral the entire distance. The rock will pay from $150 to $200 per ton. The lead is about 20 inches thick. I next came to Judge Watson's Camp, just in time to share his hospitality in the shape of a good dinner, to which I assure you I did justice. After the repast was over the Judge accompanied me to the Gem of the Sierras, where he is taking out very rich ore. He has had several crushings, and each excels the other in richness. The last yielded nearly $500 per ton at Fall's mill, and he showed me quantities of the same kind lying about the shaft, which was only some 18 feet deep. The ledge is over four feet thick, two feet of which is a black mineral of the richest kind.

Yesterday I visited the Tullulah Company's Works, on the Neptune lead ; the superintendent, Mr. Banks, was absent, but the foreman, Mr. Askew, showed me around the works which in every respect spoke well for the superintendent. Nearly every thing in the shape of cars, track, fan for clearing smoke from the tunnel, that is made of wood or iron, has been made by his own hands ; the tunnel is now in 289 feet, where they have struck a lead ; from this point they have drifted to the right, sunk an incline to the depth of 60 feet, where they have water, and are taking out some as rich ore as you would wish to see. A sample has already been forwarded to your city. The lead in the bottom of the shaft is over four feet thick. A little to the south of the Neptune, is the Empire Company. Ophir Series, where I saw several tons of very rich ore. At the shaft the ledge is four feet thick and works over $200 to the ton, at Fall's mill. Close by the Ophir is the Miama, where I saw another lot of ore that I should judge would yield several hundred dollars per ton. The Auld Lang Lang Syne are putting in their pans and will soon be ready for business again. The Larimer tunnel is still going ahead, on the first north extension of the Eclipse Series. The Eclipse Tunnel Co., will soon be in full blast again. In these tunnels, the indications are good for striking a lead soon. In their upper tunnel we are looking for big things when their leads are struck. Work on the Humboldt has stopped for the present, as the company has not been properly organized, and some parties in California owning interests have not paid in their assessments. The shaft is down some 80 feet, with a four foot lead, and shows less galena than it did near the top. As I came through Unionville, the other day, I was shown very rich ore from the Anderson lead, in Buena Vista District. This lead is about three feet thick, with about 15 inches of this rich class of ore. I might go on and mention many more prominent leads in this and other districts, but I am already occupying too much space in your columns. C. J. H.

Virginia City.—The interest with regard to outside claims still continues unabated. The impression seems to be constantly growing stronger that the Lady Bryan is a true mine, and will soon rank among the good claims of the Territory.

A correspondent of the *Union* says "There must be some merits in Flowery District, judging from the best criterion—the amount of work being done, and the vigor with which it is prosecuted. There are many old claims now being worked in a vigorous manner, and no small number of new claims and relocations that are being worked in a laudable manner. Immediately to the north and east of the Lady Bryan, we find the Desert, the Lady Bryan No. 2, the Opal, all of which are being prosecuted toward an early development with a worthy determination. New claims are daily being located in Flowery District. But a few days since there was located between two of the above named claims—the Lady Bryan No. 2 and Opal—a claim called the Lizzie. On this claim was developed one of the finest prospects in the District."

American Flat still continues to attract a large share of attention. The appears to be, as we understand it, that "the Comstock lead permeates the Flat, then disseminates into numerous spurs and ramifications, affording each claim a shadow for its pretensions of being an extension of that lead."

Mining Suit.—The Potosi Mining Company, on the 18th instant, commenced, in Virginia City, an action against the Chollar Company, and obtained from Judge North a preliminary injunction, and an order to show cause why a perpetual injunction should not be granted. The bonds required were $30,000, and were assumed by persons of undoubted wealth. The order is made returnable on the eleventh day of March, in Virginia City. Reardan & Hereford are attorneys for the Potosi, and Stewart & Baldwin for the Chollar Company. This, says the *Union*, is one of the most important suits that has been commenced in this city for a long time.

MINING GOSSIP.

EDITED BY FRANK WARDDELL.

[In this department of the Mining and Scientific Press we propose to give various and brief accounts of mining companies, and shall, under all circumstances, write *plainly* respecting their merits and de-merits; furthermore, we shall bring to light such transactions as may come within our knowledge regarding the "Bulling and Bearing" system and the "underground" actions of both Trustees and Brokers. We are vain enough to suppose, at all events, that we have the "inside track," and shall, without *hesitancy or fear*, give to the public, from time to time, a peep behind the scenes whenever the occasion justifies. If, in doing so, at any time we have fallen in error as to our report, and it can be so proven, nothing will afford us more pleasure than to make the "*amende honorable*" by correcting the same. We shall feel under obligations to those who are interested in stock if they will communicate to us such items as may come under their observations, and which will prove interesting to our readers. This department is open for free disenssion to "one and all." Our object is to render justice to every one. Communications, in all cases, must contain the author's name and address to insure publication, which will be kept *strictly confidential*—otherwise no notice will be taken of them.]

Real Del Monte.—Nothing new has transpired of an important nature relative to this mine since our last issue. Matters and things regarding the investigation proceed slowly and will of course require time and great care to be taken with the examination. The committee has appointed a competent gentleman to act in the capacity of bookkeeper, who commenced his labors on Thursday, the 25th instant. (Well may we use the term labor, for he will find it so, we presume, before he gets through.) Stockholders and the public generally, are looking forward with much anxiety to the report of this committee. We may be wrong in our conjectures, but we nevertheless do think that the said report will bring to light some very *strange developments*, which will show that the affairs of this once prosperous company have been trifled with, and the stock of the company consequently well nigh ruined thereby.

It was a wise move when the stockholders adopted *our suggestions*, and held their meeting, and we feel the more proud to think that our efforts have been the cause of having many different companies wake up to their interests, and to call similar meetings. We plainly saw that the method we proposed was the only correct one whereby stockholders could find out how affairs stood in companies so mysteriously managed. We determined to give our views of the matter to the public, regardless of what the consequences might be—which no other journals have done, fearful that it might injure their circulation. Nothing like being free in speech and independent in action—speak as you deem proper (always using discretion) and more especially when you know you have the right on your side. We did so and the result has been an unlooked for and gratifying one. We have secured hundreds of new subscribers and well wishers, and the thanks of the community. We have accomplished our object and are satisfied with the result.

Such is Life.—It is rumored that the old Secretary of a company which now stands prominent before the people purposed taking a trip upon the Continent, having made enough of the "necessary of life," commonly called money, out of the stock; for be it known that he sold out at the *right time*, so the wise ones say. We, deeming ourselves not so wise, make the enquiry and would like to be informed what the term *right time* signifies? Since an informal meeting of the stockholders, we have been told that he most *wisely* concludes to defer the much anticipated pleasure trip until some future day. What a contrast! To think while hundreds have been deluded and almost ruined, he, the well known, mysterious, silent-tongued, non-informant Secretary, (even to his most intimate friends) should have made enough so as to afford a trip abroad, make a "spurge" and astonish the natives. Oh, no! we guess he did not have the inside track; not he, indeed!

Lady Bryan G & S Mining Co.—This company have called a meeting of its stockholders to take place on the 12th of March. The principal object of the meeting is to take into consideration the propriety of reducing the number of the shares of the stock. We think the idea an advisable one, and would recommend many other companies to follow the same example.

After them in Earnest.—Mr. Caleb T. Fay, the Assessor of the Internal Revenue, is after the Stock Brokers and Secretaries in a fine style. Much commotion has been the consequence, and already a decided increase in the funds of Uncle Sam. The Stock Brokers and Secretaries are very indignant, and say that the representative of Uncle Sam is rather severe upon them; that during these ruinous stock times he ought to be more lenient toward them, especially as they have been such good customers in the time of their prosperity. Mr. Fay, however, does not see it in that light, and makes the following demand, irrespective of their groans and supplications. So, gentlemen, "walk up to the Captain's office," buy your stamps, fix up all your back certificates and await calmly for the call of the Assistant Assessors.

CIRCULAR.

Office of the Assessor of Internal Revenue, 1st Dist. } California, San Francisco, Feb. 23d, 1864. }

To Buyers and Sellers of Stocks:

I have been informed that stamps upon certificates of stock are, in numerous cases, not properly and lawfully cancelled with initials and dates, thereby leaving them in condition to be taken off and used again.

"I am also informed that persons who transfer stock by power of Attorney, or endorsement, are in the habit of signing their names to blank powers of attorney, and delivering stock to purchasers or brokers without affixing stamps to such certificates. This act is a plain violation of the law, and makes all such transfers null and void.

The only way to avoid using stamps lawfully is for parties personally to transfer stock, and in such cases it would be well for persons transferring stock to endorse their name *above* the blank power of attorney, and *not below it*, thereby preventing the possible use of such power, or the raising a question as to violation of law.—[A severe joke.—Ed. Press.]

The law in relation to stamps upon certificates of stock has been so carelessly executed, that the Assessor has deemed it necessary to examine all transfers of stock in the city; but in order that persons who have innocently violated the law may have no injury done them, ten days will be allowed all persons and companies to correct previous errors. After the ten days have expired, Assistant Assessors will be instructed to visit every corporate company's office, and make such examination as will satisfy them that the law is observed.

In future, the law must be strictly adhered to, or the prescribed penalties will be enforced."

It is a satisfactory reflection to know the operators in "wild cat," stock will feel this injunction most severely.

Cannot Agree.—There seems too be much ill feeling existing among the different members of the San Francisco Board of Brokers. From what we have been able to learn it is all caused by simply a misunderstanding as to their rights, as members. One "clique," composed of some seven members who, by the way, are also members of the new "Open Board," maintain that notwithstanding a resolution having been passed by the board, to the effect that no member can belong to two boards at once, say, it does not hold good, and, furthermore, they cannot lawfully be suspended on the ground that the board is an incorporated institution. The rest of the members argue to the contrary. Thus the "war goes on." We regret to see such difficulties arising and such disgraceful actions between gentlemen as have taken place of late. It is to be hoped that their affairs will e'er long be amicably settled, and a more dignified course pursued toward one another in future. We are inclined to believe that such are the wishes of the majority of the board. Gentlemen, "knock down" arguments never avail anything, and always prove fruitless. Good common sense is the article to use, combined with sound reasoning. A "hint to the wise," we trust, is sufficient."

Stockholders of the Real del Monte.—Your attention is directed to an advertisement which appears in our issue of to-day. It is very important that each holder of the stock should at once pay the one dollar per share levied by the committee—so that no unnecessary delay shall occur in "ferreting" out the mysterious proceedings of this company.

Lady Bryan.—A letter from the superintendent of this mine, dated Feb. 23 and received here on the 25th, states, among other things, that "he had sunk a shaft 20 feet, passing through small quantities of very fine ore. After reaching a depth of 55 feet he would commence taking out ore." His plans are such as will ensure a more speedy progress than heretofore in taking it out. The letter also states that the ore looks more like the Ophir than any he has seen outside of that lode.

Gloomy Times.—The past week has been anything but a prosperous and encouraging one for the stock brokers. Stocks have been dull, and the fluctuations in several leading stocks have caused many severe losses. Sales in the different Boards were not numerous, transactions outside have also been limited. We hope that the month of March will prove more successful to stock operators than the one they have just passed through.

Mexican Mine.—Messrs. Alsop & Co. have disposed of this mine, within the past week, to an incorporated body, for the snug sum of *One million three hundred and sixty thousand dollars!* As there are only 100 shares in the company, it thus averages at the respectable figure of $13,600 per share.

Burnside.—A movement has taken place in this stock on account of a telegraphic despatch having been received here, stating that they had struck a good quality of rock, assaying $135 to the ton.

Santa Rosa G. & S. M. Co.—There seems to be more life in this stock, and it is said that the reports received from the mine are of a more favorable character.

A Correct Idea.

We have been informed, "officially," that the directors of several mining companies, in this city, have notified their stockholders, by circular, that all the notices of meetings, assessments, etc., relating to their several companies will hereafter be published in the Mining and Scientific Press: the only mining paper in the State, all sufficient as an advertising medium, and one eminently worthy the support of mining men and mining companies generally. We are certainly thankful for such expressions of appreciation in behalf of our efforts, on the part of the mining public, and shall continue to labor to the best of our ability, in earnest effort to benefit the miner individually and mining interests generally. We could accomplish much more than we are now doing, if our mining friends would still further concentrate their patronage upon our columns, and we think moreover that we could serve them quite as well as any other journal. Our circulation is already large and rapidly increasing. The matter given in our columns, and its typographical appearance, speaks for itself. As an advertising medium for mining notices, and such business matters as it is desirable to bring before the mining public, we believe the Mining and Scientifc Press is second to no other paper in the State.

Map of the Northern Mines.—A gentleman has submitted to our inspection a map of the Northern Mines, including also Humboldt and Reese River. The Boise region portion of this map has been drawn under the direction of Mr. Jordan, who was the original discoverer of the Jordan Creek mines. It is much more full and correct in relation to the Boise mines, particularly, than any of the maps yet published, and we should judge its publication would not only be a good speculation but add materially to the geographical knowledge of one of the most important mining regions yet opened between the Sierra Nevada and the Rocky mountains. We have found this map of material assistance in preparing an article for our next issue, under the head of "The Northern Mines."

Summary of Mining News.

Yuba County.—The interest in the Brown's Valley mines seems to keep up. A correspondent of the Marysville *Appeal* of Feb. 21, gives the particulars of the work now in progress on fourteen different claims, and adds that the work of prospecting for new ones is still going on. Workmen are now engaged in preparing for the reception of the engine designed for the Paragon company. The Sweet Vengeance company have a very fine 20-stamp mill. The Tunnel Co. is considered the "pet" of the Valley. They have an open cut 60 feet and a tunnel in 150 feet. They have before them the outcroppings of *eleven* leads, and will probably strike several blind ones. The Pennsylvania Co's mill has been laying idle all winter for want of a sufficient head of water to move the wheel. The late rain has furnished this element, and the mill commenced crushing on Sunday. The Jefferson Company, for last week's run, cleaned up $10,000. Pennsylvania stock went up several notches on the strength of this result, as well as all the Brown's Valley ledges.

Sierra.—The *Messenger* learns that considerable excitement has recently been created at Eagleville in consequence of the discovery of a rich ledge there. Some capitalists have offered to build a mill, at a cost of $50,000, for one-half the claim. The Union Co.'s mill, at Wet Ravine, in Southern Sierra, is turning out large amounts of bullion. This company commenced operations about one year ago, and first took out money enough with hand mortars to build an eight-stamp mill, since which time they have paid all expenses, and divided $4,000 to the share. The claim contains 1,800 feet, divided into nine original shares. The mill turned out $47,000 for the first 28 days run. The Sierra *Democrat* of the 20th inst., says that a blast was shot off in the main tunnel of this company, on Wednesday of last week, which resulted in loosening about half a barrel of specimens, which are actually more gold than rock. No gold was visible on the outside of the rock before this blast, which will yield them several thousand dollars. The common rock from the mine, in which gold is not visible, yields from $40 to $50 to the ton. The Sierra *Democrat*, in speaking of this portion of the county, says: "A new era is dawning in South Sierra. A manifest vitality and activity in quartz mining pervades the community. There are already six mills built and about ready to commence crushing. The construction of five others, on a grand scale, is in contemplation, and they will be erected as soon as Spring opens—mostly by San Francisco and Sacramento capitalists.

From Plumas County, we learn that the Indian Valley Co. expected to have their large mill, designed for crushing rock from the Waterworth & McKianey lead, in operation on Monday last.

Tuolumne.—The *Courier* states that the Columbia G. & S. M. Company have commenced the erection of a five mill on their claim, at Experimental Gulch, half a mile from Columbia. The mill will be equal to anything in the county, with 28 stamps and two 1,500-pound crushers, driven by a 40-foot water wheel. The vein has been thoroughly prospected, and found to be rich. The principal owners reside in this city and Stockton. Mr. Ferguson, late of this city, is the mine superintendent. The *Courier* adds that they have many other equally promising enterprises in that vicinity, and all that is lacking is capital to develop them.

Esmeralda.—The Durand Co., near Bodie Creek, and about two and a half miles from Aurora, are building a fine mill, to be completed by the first of next month. The machinery, according to the *Times*, looks lively. There will be 24 stamps and 16 Varney pans and 6 separators. The engine is a horizontal 60-horse power, with 4-foot stroke, and has been built by Donahue, Booth & Co., of this city. It is now being put up by Mr. Royer, the engineer of the company. The Durand have a very promising mine on Middle Hill. According to the *Star*, the Golden Age and Empire Co. had their first crushing, of 48 tons, recently, which yielded an average of $105.78 to the ton. Specimens from the Maggie Green promise well. The Utah is spoken very highly of, and much surprise is manifested at the low rates at which it is quoted in this city. The new mill of the Antelope is rapidly approaching its completion. The company has a large amount of rock out, and are ready for crushing. Fine results are expected when the mill starts. The *Times* speaks of some splendid rock taken from the Crockett claim. The company has about 250 tons of rock out, and ready for crushing. The Moscow is also taking out fine rock.

Reese River.—The *Reveille* of the 13th inst. says that two tons of rock from the Western Oregon recently yielded $720. A crushing for the Vineyard lead returned $1,205—amount of rock not given. Fifty pounds from the Fort Sumter, Amador District, yielded $26—at the rate of $1,300 to the ton The Clifton mill is engaged in crushing 60 tons of rock from the Savage lead, upon which the *Reveille* says: "This shows a confidence that is encouraging to see—owners of mines furnishing mills with such large quantities of ore. We hope the example will be followed. If miners find that they have a good paying ledge, they should immediately get out as much ore as possible, and send it to the mill, not as has heretofore too often been the case—have a ton or two crushed now and then in order to send a small brick down below to gratify friends or keep up the spirits of a few interested parties. Rock is of no use to any one lying at the mine. Better get out the mineral and put it in circulation." Five pounds of Silver Moon rock from Union district yielded at the rate of $416 to the ton. Great confidence is felt in the general richness of the mines in this district. The miners are working their mines constantly, and new and richer developments are made every day. Mr. Buel is now on his way to Reese River with a 24-stamp mill. The mill will be set up at Watertown, on Big Creek, and will be driven by water from the creek. The water in this stream has just been measured and found to amount to just 244 inches. A saw-mill is in operation on the creek and lumber can be obtained at $200 per thousand. Two months ago there were only about 500 persons in this district, but now there are about 1,600. This would appear to be the most promising mining settlement in that region.

The Humboldt Mines.—The recent reports from the Humboldt mines are of a decidedly improved character. The *Register* of a late date, says of the mines of that district that "the world is beginning to learn that there is such a thing as Humboldt silver mines. A few months ago, you could see no mention of this region in any of the California papers. A few adventurous people, however, got thrown off from the mass that went tumbling, like porpoises in a shoal, down the current of curiosity, and brought up in Humboldt. Once here, the trip was too tiresome and expensive to return without giving some attention to the pretensions of our mines. Here and there they straggled off, hammer in hand, one at a time, guided by some enthusiastic settler, on tours of inspection; incredulous still, but willing to see the truth. A few days of prospecting, and they caught the enthusiasm of the old Humboldters, and frankly owned that the half had not been told. They had not imagined that a region could rest so quietly, where the mountains were so crammed with precious metals. They were surprised and delighted. The pioneers have not had the advantages of a fevered market in which to sell their stocks; but better, they have had time to discover what their claims are really worth, and to learn by experience of others the best mode of realizing fair prices for them.

The Moonlight company, at latest dates were delivering rock at Fall, Price & Co's mill, and will soon be able to keep the mill constantly at work. A small lot of their second class ore yielded $280 per ton. They have a pile of selected rock, which they think will yield from $300 to $500 per ton. It is now said to be pretty certain that Fall's mill will hereafter have all it can do and that bullion shipments will be regular. The next trouble will be, strife between owners of ore as to which shall take precedence at the mill Several companies have been pushing work lately, so as to be in shape to supply the mill in the spring. The great want in this canon now is about three more mills. Lang Sync mill in Sierra, will soon be running, and that will be some relief—as all rock from Sierra heretofore has been worked here. One locator in the Silver Wave company recently sold out all his interest, except 20 feet, to Virginia capitalists for $10,000.

It is stated that a substitute for cotton has been discovered by a firm in Liverpool which with length of fibre, delicacy, elasticity and great strength, is equal at least to East India cotton It can be produced to any amount at 6d per pound. It has been patented in France, and its applicability and utility is so evident that the Minister of the Interior has intimated his intention of forwarding its use by all means in his power.

Washoe Stock Boards.—Parties in Virginia City have recently established an informal association, which is known as the Pi-Ute Stock Board. It is said that at some of the meetings of this body more sales have been effected than at the regular meetings of the regular stock board. According to the *Union* of the 19th inst., the latter institution has recently passed a resolution imposing a fine of $500 upon any of their members who in any way engaged in the purchase or sale of feet in the so-called Piute Board. The *Union* says that the business of the two Boards have become somewhat complicated; difficulties were beginning to ensue, and these and other reasons caused the action taken by the Board, to the great chagrin of some of the minority. What effect this resolution will have on the character of outside boards remains yet to be seen. As the expenses of carrying them on are not large, they will no doubt continue to transact business as usual.

Personal Explanation.—We have received a private letter from Hon. John S. Hittell, assuring us of his entire ignorance, at the time of its introduction, of the "Mining Advertising Bill" referred to in our last issue, and we have given him the benefit of his denial of its authorship in our columns, with pleasure. The bill appeared so peculiarly adapted to the favor of the *Alta*, in *all* its features, that we felt perfectly warranted in ascribing its parentage to some party directly interested in its pecuniary welfare. We admire Mr. Hittell's denial of all connection with the covetous and unjust act at present shouldered by Mr. Shafter.

Suit against the Del Monte.—We understand that Messrs Messick & Van Voorhees, of this place, have commenced suit against the Real Del Monte Company, for counsel fees. They sue for $40,000, and have attached $28,000 in bullion and the mill property belonging to the company.—*Esmeralda Times, Feb. 19th.*

We understand the above suit has since been compromised for $15,000.

We further learn from the *Times* of Feb. 22d, that Messrs Quint and Kendall have commenced a similar action against the Pond Company, claiming $30,000 for professional services.

The "Standard" Company, Amador District, Reese River, (being the first south extension of the "Amador,") are running a tunnel and sinking an incline upon one of their ledges, in which they have struck fine silver bearing quartz, in all respects the same as the original "Amador." This company has sometimes been confounded with a company bearing the same name but located in Reese River District, and which has been really at various prices in our market.

Salt Mill.—The Virginia *Union* says that the Sand Springs Salt Mining Company are now forwarding large quantities of salt to Virginia City and adjacent localities. They will soon put up a mill for producing a fine article of table salt. This salt mine is located about sixty miles from Virginia, on the Reese River road.

Another Mint Wanted.—The Boise *News* says that gold dust which is worth $16 per ounce only returns the owner $13 per ounce after paying the expenses of sending it to San Francisco and getting the coin back to Bannock.

Grass Valley.—A private letter from this place says:—Not much doing in copper this winter, but I am of opinion that many rich mines will be opened within fifteen miles of this place within the coming year.

Territorial Laws.—The Virginia *Daily Union* has been selected by the Territorial Legislature to publish the laws of the Territory of Nevada.

Professor Whitney's Lecture.—Extra copies of the Mining and Scientific Press of February 6th, 1864, containing the lecture of Prof. J. D. Whitney, (State Geologist,) on "Mining and Its Relations to Civilization and Progress," can be obtained by calling at this office.

Mechanical Department.

New Engine for the Gould & Curry Mill.

Quite a number of our citizens embraced the opportunity of a leisure day, on Monday last, to visit the Vulcan Foundry, on First street, for the purpose of examining a new engine which has just been built there for the Gould & Curry Company's Works at Virginia City. This is the largest stationary engine which has ever been built in San Francisco, and is a piece of work highly creditable to the enterprising firm which undertook it, and marks another important step in the progress which our city is making in mechanical advance.

The engine, at the time of our visit, had just been completed and set up, with every part in its place. It presented a really elegant and artistical, as well as substantial appearance. A massive bed-plate, 21 feet long and 6 feet wide forms the base of the structure. The cylinder is securely bolted to one end of this bed-plate, and is itself a fine piece of work, 30 inches in diameter and 6 feet stroke. At the opposite end is the main pillow block, while from the center and from each end of the bed-plate, elegantly moulded columns, supported by diagonal braces, all in gothic style, rise to a hight of 17 feet, to support the beam centers and sustain a neat entablature extending around the upper portion of the engine. Brackets are bolted to this entablature, upon which a light platform will be placed, surrounded with iron standards and a rail or guard of polished brass. The platform will be reached by a spiral iron stair case, and from it the engineer will be able to examine every portion of the upper works of the engine. The engine beam is of an approved pattern, 15 feet long and 7 deep. The connecting rod is 15½ feet long, of wrought iron, with the usual braces. It is a handsome piece of forging and neatly finished. The crank is also of wrought iron, as is the shaft; the latter being 12 inches in diameter and 14 feet long.

The valve motion to this engine is something new on this coast and is claimed to be superior to anything else of the kind in use. It consists of piston balance valves, operated by an eccentric. The steam is distributed by a reciprocating motion, similar to that of an ordinary slide valve. The variable and self-adjusting expansion gear, or cut-off, is controled by the governor, which will regulate the motion of the engine, and modify it to the slightest variation of power which may be required. Its operation is transmitted to a cam through a peculiar mechanism that sets ahead or retards the stroke of the cam, causing the cut-off to occur at an earlier or later point of the stroke of the engine. This cam is connected to the piston valves and has the effect of twisting them, without interference with and independently of their reciprocating motion. The governor is entirely automatic in its action, and the adjustment and variation of the cut-off can be wholly left to its influence, while at the same time it is readily adjustable by hand, when desired. The pressure in the boiler may be barely sufficient to keep up the motion or, on the contrary, it may be at the highest limit of tension allowed by the safety valve; the engine may be working without any other resistance than its own friction or it may be exerting its maximum power; or else a change, gradual or sudden, may take place from any of these conditions to others; yet under all these circumstances, or a combination of any of them, the governor, by its reaction on the adjustable cut off, will constantly regulate the admission of the proper quantity of steam and maintain a uniform rate of speed.

While the engine is in motion an index, conveniently placed, and divided off, shows precisely at what point of the stroke the suppression of the steam occurs. This peculiar arrangement was invented and patented by McNaught, of Glasgow, Scotland.

This engine, when working at its intended speed of 25 revolutions per minute, under 100 pounds of steam, and cutting off at an average of from ¼ to ⅓ stroke, will exert a force of from 260 to 300 horse power, and is capable of running 150 stamps, with their necessary compliment of pans, etc. Its cost, aside from boilers, shafting, etc., has been about $30,000. It is now being packed up for transmission over the mountains, where, in addition to the mechanical force it is expected to exert, it is confidently believed that it will also exert a re actionary power upon Montgomery street, which will be readily discernable in increased dividends upon, and an upward tendency of Gould & Curry stock.

Some idea of the size and proportions of this engine may be formed from the fact that its main shaft weighs 7,000 pounds, the bed-plate 14,000 pounds, its beam 7,500, its cylinder 4,200 and the entire engine exclusive of boilers, *eighty tons*. Every part of the engine has been cast, forged and finished at the Vulcan foundry, with the exception of the main shaft which has been made from a spare piston rod formerly belonging to the steamer Golden Gate. The successful completion of this work forms quite a card for the Vulcan Iron Works and is highly creditable to the skill and energy connected with that establishment. The engine was built under the immediate superintendence of Mr. R. G. Carlyle, engineer for the Gould & Curry Mining Company. The works where it has been constructed are under the direction of Paul Torquet, as manager, with C. R. Stiger, R. Ivers and S. Aitken, proprietors. Joseph Moore is the efficient foreman of the machine shop, and has had the mechanical charge of the above described work. The engine was designed and drawn by F. Euler, who has been for years connected with these works as draughtsman.

Insect Power.—The muscular power of the common flea, as displayed in the distance which it will measure at a single spring, is familiar to every one. Perhaps the common beetle comes next to it in the proportion of its muscular power. Professor Goss states that he once placed one on a smooth table and covered it with a large glass bottle, filled with milk, and having a hollow under it like a common champagne bottle. Presently, to his great surprise, the bottle commenced moving slowly along the surface of the table, propelled by the muscular power of the beetle imprisoned underneath it. The weight of the bottle and contents was three and a half pounds, that of the beetle half an ounce; so the insect readily moved 112 times its own weight! A better idea of this feat will be obtained by the parallel supposition of a lad, say fifteen years of age, and weighing one hundred pounds, imprisoned under a monstrous bell weighing five and a half tons, and pushing the same along over a smooth pavement by exerting his muscular force upon its interior surface!

Spiegel Iron.—Spiegel iron is getting much into use at Sheffield, in the Bessemer process, (as a carbonizer,) and also for making steel, the charcoal quality suiting very well for this purpose, on account of the large proportion of maganese and carbon it contains. The British Government are now experimenting on this class of Iron at Woolwich, with the intention, it is understood, of using it, like Krupp of Essen, in the manufacture of steel cannon. For rolled armor plates, it is also likely to come much into use, being used in a process at present kept secret. There are various sorts of Spiegel iron, but the charcoal-made quality is considered to be the best suited for the purpose named.

Spontaneous Heating of Iron.—Cast iron when brought into the air after it has been for many years under salt water, has become red hot. In June, 1836, some cannon balls were raised from the ship Mary Rose, which sunk in a naval engagement near the Isle of Wight, in July, 1545, nearly 300 years before. These balls all became hot on exposure to the air, and fell to pieces. The cast iron gratings, after being long immersed in the porter vats in the large breweries of London, grow hot when the porter is drawn off, from a similar cause.

If you wish to prevent rust, rub the rusty iron with boiled oil, in which some red lead has been mixed, on a warm day, and the rusting process will be arrested.

A New Electro Magnetic Engine.—The mechanical world has for years felt a strong conviction that the time is not far distant when electricity will be brought into practical use as a motive power, and eventually be made to supersede steam. On several occasions we have apparently been upon the very verge of this consummation, but as yet, only to be doomed again to disappointment. The present announcement, may, and very likely *will* result in failure; but each new effort appears to be a step in advance, and the opinion is constantly gaining strength of the ultimate accomplishment of the *desideratum*.

The inventor of this new magnetic engine is Capt. John Reeves of New York; the engine is rotary, and is constructed upon a principle entirely different from anything heretofore introduced. The method on which Capt. Reeves founds his principle for producing and augmenting motive power by electricity is peculiar in its machinery, but comparatively similar in its nature to that by which other elements are brought into practical use: that is, the greater the area of the surface exposed to the action of the motive or first cause, whether it be wind water, steam or electricity, the greater the effect produced in the motive-power. In regard to the expense, the inventor makes this comparison: In extending the area of a steam engine to increase the power, the momentum being the same, the ratio of expense will increase in proportion. But electricity, being of a different nature, when the area of surface is extended, extra power is obtained, with a diminished ratio of expense. For instance: suppose it costs $1.25 per horse-power for the material to keep a 50-horse-power condensing marine steam engine at work for twenty-four hours, and the area of surface in the piston is extended sufficiently to produce 100-horse power the cost per horse-power for producing the additional 50 would be equal to that of the first 50. But suppose the cost is ten cents per horse-power for material to keep a fifty-horse marine electro-magnetic rotary engine at work for 24 hours, and the area of surface is extended to produce 100-horse-power, the additional 50-horse-power would be obtained at a quarter less cost than the first fifty; therefore, the whole expense would be greatly reduced. A marine electro-magnetic rotary engine, and all its accompaniments for a six months' cruise, would not occupy more space in a vessel than a marine steam engine of equal power, saving the room now required for furnaces, boilers, coal-bunkers, &c. A vessel that can be propelled by Electricity can be built with one-fourth less capacity—at less expense—with finer lines for speed—carry equal burden, and in every way possess superior qualities to one built for being propelled by steam. Again: a vessel propelled by electricity can be entirely closed up when required. This will make it available for arming in a peculiar manner either for assault or defense, and navigable submerged or on the surface of the water. This invention is destined to make great changes, not only in our river and ocean navigation, but also in railways of every description.

The inventor has constructed a working model of his machine, with plans of different descriptions, which he is preparing to exhibit to the government engineers at Washington. Col. Reeves may not be the "coming man" that is to revolutionize the mechanical world; but so sure as time continues, the principle upon which he is at work embraces a truth not a whit inferior, in importance, even to that which dawned upon Fulton when he caused his first steamboat to float upon the waters of Hudson river.

Ten Tons of Rails an Hour.—The Rail Mill attached to the Pennsylvania Iron works of Waterman and Beaver, at Danville, in this State, made on Friday, 18th December, 104 tons, 17 cwts. (2240 lbs. per ton) of rails in 10¾ hours on a single train of rolls. They were manufactured for the "Philadelphia and and Erie Railroad Co.," 56 lb per yard and 30 feet lengths. It may be of interest to ironmasters and railroad men to know that so much was accomplished in so short a space of time, more perhaps than has ever been done by any other Rolling Mill in the same number of hours.

The Oldest House in America is in St. Augustine, Florida. It was built by the Spaniards in 1510—over 350 years ago. A sketch of this ancient relic has lately been taken, from which a painting has been made, which was recently on exhibition in New York.

Patent Department.

Improvement in Generating Steam—*A California Invention.*—Mr. B. F. McKim of Virginia City, a machinist in the Gould & Curry mill, according to the *Union* has recently invented a new and improved mode of generating steam, which is well worthy the attention of mill owners. The object of the invention is to effect a saving in the use of fuel. The principle upon which it is based is to expose as much water surface to the fire as possible, and in this the inventor has succeeded admirably, and thinks that he can produce one hundred per cent. more steam, with an equal amount of fuel, than can be generated by any other method now in use. The water, after it is received cold from the force pump, passes through a process remarkably simple in its operation, which raises its temperature almost to steam heat before it enters the boilers at all. Then it is subjected to the same heat as cold water is in ordinary boilers, and the result is obvious. The patent will be received soon and preparations completed for putting up boilers upon this plan. In a region where firewood is costly, the advantages of such an invention are very great.

A New Crushing Battery.—The Virginia *Union* notices at length a new crushing mill recently invented by Mr. H. A. Gaston, of Washoe City, N. T., which consists of the application of the tilt-hammer to the stamps of the common battery. The stamps are raised by a succession of levers, and there are no cams to be broken, whatever may be the velocity with which the stamps are made to rise and fall. The inventor claims that by his battery four blows may be given to one by the ordinary constructed battery, with the same number of stamps. Such a result, if it can be made practicable, would surely be most important. The editor of the *Union*, who has seen and carefully examined a working model, appears to think the invention a useful one, and indulges the hope that it may soon be subjected to a practical test.

An Automatic Railroad Switch has been patented in France, which can be worked by adjusting rods, attached to the engine itself or any car or other vehicle placed in front of the engine.

New Hot Air Engine.—What is claimed to be an improvement on hot air engines has recently been invented by Henry Masser, of Roxbury, Mass.

A Useful Invention has been patented in New York, for obtaining an oil or grease from the tarry residuum produced in the manufacture of coal oil. A great commercial economy will doubtless thereby be effected.

An Improved Riding Saddle.—G. L. Webber, of New York city is the assignee from a German inventor, of an improved saddle which appears to possess decided advantages over any heretofore in use. The object of this invention is to produce a saddle by which the horse is not pressed when in motion, one which will readily accomodate itself to the changes in the shape of the horse's back, consequent upon the greater or smaller amount of labor or exertion to which the horse may be subjected at different times, and the seat of which will at all times be kept cool and comfortable by a current of air passing through between it and the back of the horse. The invention also relates to an improvement in the girth, whereby the same is made easy for the horse and cheap and durable in its construction.

Nail Machine.—An important improvement in the nail machine has been patented by Daniel Dodge of Rusville, N. Y. This invention relates more particularly to the manufacture of forged nails and particularly of horse-shoe nails. In the manufacture of such nails by machinery it is difficult to produce as thin or fine a point as is desirable by a hammering or drawing operation. The plan adopted in this invention is to cut the points, after having reduced the nail as much as desirable by hammering or drawing. The improvement consists in the employment, in a machine for making forged nails, of cutters so constructed and applied that they will serve the purpose of cutting the metal from the side of the nail to reduce the thickness and produce the desired form of the point.

The Mining and Scientific Press Patent Agency.

OFFICE, 57, GOVERNMENT HOUSE, SAN FRANCISCO.

Information About Obtaining Patents.

The Patent Law Amendment Act, of March 4th 1861, and March 3d 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent?" A positive answer to this question is only to be had by presenting a formal application for patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the Mining and Scientific Press. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Preliminary Examinations.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search, made at the U. S. Patent Office, Washington, through the medium of our associate in that city, to ascertain whether among all the patents and models there stored, any invention can be found which is similar in character to that of the applicant. On the completion of this special search we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollars. This search, though it involves the expense just named, will usually prove satisfactory. If the same device has been before patented, the time and expense of constructing models, preparing documents, etc., will in most cases be saved; if the invention has been in part patented, the applicant will be enable to modify his claims and expectations accordingly. Many other obvious advantages attending the Preliminary Examination; although the strictest search does not always enable the applicant to know positively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publication; or some other person has been previously rejected on an analogous device; or some other invention for a similar purpose, but partially resembles the applicant's in its construction; or the Government makes an unjust or uncommon decision. Against none of these contingencies does the Preliminary Examination provide; it will, however, generally inform the applicant whether an improvement similar to his and used for the same purpose has ever been patented or not in this country.

Persons desiring the Preliminary examination are requested to remit the fee ($10), and furnish us with a sketch and description of the invention.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian, Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of governments that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues.—If the application is rejected we cause a thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have access to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client. For this service we make no charge. If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a nature. Our terms for such cases are very moderate.

Models, Remittances, etc.

The laws requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: Dewey & Co., Mining and Scientific Press, rooms 56 and 57, Government House, corner of Sansome and Washington Streets, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail.—The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due, and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued, the applicant will be notified to remit the last installment of the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Return of Models.

Under the new law, if the applicants case has been rejected he is entitled to withdraw his model from the Patent Office.

This law applies to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expense.

Application for Patents, Designs, Trade-Marks, Labells, etc.

Under the new law patents may be taken out for any new form of any article, also for tools, patterns, castings, machine-frames, stove-plates, borders, fringes, all new designs for printing, weaving or stamping upon silks, calicoes, carpets, oil-cloth, prints, paper-hangings, and other articles. Trade-marks, labels, envelopes, boxes and bottles for goods, may also be patented; likewise all works of art, including prints, paintings, busts, statues, bas-relief, or compositions in alto, or basso relievo, new dies, impressions, ornaments to be placed upon any article of manufacture, architectural work, etc.

Our facilities for the prompt preparation and securing of patents are of the most extensive character and our charges are very moderate.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the tariff of fees established by law:

On every application for a design, for 3 years and six months	$10
On every application for a design, for seven years	15
On every application for a design, for fourteen years	30
On every caveat	10
On every application for a patent	15
On issuing each original patent	20
On filing a disclaimer	10
On every application for a re-issue	30
On every additional patent granted on a re-issue	30
On every application for an extension	50
On the grant of every extension	50
On appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, D. C.	25

Infringements.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunction from the Court, to an arrest of or prohibition from the employment of his machinery, shop, works, factory and men in prosecution of the article.

In addition to injunction the infringer is liable to be mulched in treble the amount of damages awarded by the jury. The maker, the workman, the seller, and the purchaser, if a user, are all liable, either collectively or individually.

Having access to all the patents, models, public records, drawings and other documents pertaining to the Patent Office, we are prepared to make examinations and give opinions upon all infringement questions, advise as to the scope and ground covered by patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Appeals.

In rejected and other cases, the new law provides for an appeal from the Examiner-in-chief to the Commissioner in person, on the payment of a fee of twenty dollars. A further appeal may be taken from the decision of the Commissioner to the U. S. Court, of the District of Columbia. These appeals are heard by any of the Judges before whom the applicant elects to bring the case. No jury. All the papers, models, etc., are sent by the Commissioner to the Judge, who then reviews the case, and either sustains or reverses the Commissioner's decision.

The party taking the appeal pays an additional fee of twenty-five dollars. The Judge appoints a day of hearing. The applicant can appear in person or by counsel to state his case and file a written argument. Five days are allowed the opponent to put in an answer, and a similar period to the appelant for a closing reply.

Many important cases are brought before the Judges on appeal and the decisions of the Commissioner are not infrequently reversed.

We have had successful experience in conducting these appeals, and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, Government House, corner Sansome and Washington streets, San Francisco.

Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

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AMERICAN AND FOREIGN PATENTS.—Letters Patent for Inventors can be secured in the United States and foreign countries through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past year.

FAVORABLE TO INVENTORS.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the MINING AND SCIENTIFIC PRESS, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

Will be Discontinued.—After this date subscriptions not paid for in advance will be discontinued. As soon as possible bills will be presented for all arrearages. Parties who receive a paper from the office of delivery cannot evade the LAW requiring payment for the same. We shall in future keep no continued accounts with subscribers, and the subscriptions of ALL friends and patrons will be treated alike.

San Francisco:
Saturday Morning, February 27, 1864.

A MINING SCHOOL FOR THE DAY.

We have understood that the suggestions in our last issue, with regard to the propriety of establishing in this city what may be denominated a Primary Mining School, the benefits of which may he made immediately available to the mining public, were quite favorably received, and considered eminently practicable by persons thoroughly competent to judge in such matters. A class, much upon the plan indicated, has already been formed and is now in successful operation, made up chiefly of the teachers of the public schools who are allowed the use of a room in the Powell street school building. This class meets every Monday and Tuesday evening, under the direction of Profesor Price, a gentleman eminently qualified, by experience in English mining schools, for the task he has undertaken. The class has a small collection of apparatus, merely sufficient to carry them through a course of instruction in assaying for lead, copper, gold and silver. The course we believe occupies some 24 evenings, in which time Mr. Price expects to he able to give his pupils a practical knowledge of the above subject. The success of this class thus far has been such as to encourage the formation of a second class, which will number about twenty students. The place and time of meetings has not yet been decided upon, but will probably be announced about the 1st of March.

Steps should immediately be taken, under State patronage, to procure a proper room and apparatus for the continuation of this movement, on a scale somewhat more extended, and embracing all the departments of science having a direct bearing upon mining. Vast amounts of labor and money are being blindly expended every month, throughout the State and adjacent Territory, in mining operations, much of which is entirely unproductive, and more so illy directed as to result in losses to the State of almost incalculable amounts.

Mining companies are quite too negligent in their selections of superintendents. Every superintendent of a mine should have a knowledge of the chemistry of the materials upon which he is operating, and the general principles of all the various operations in mining which he may be called upon to undertake in the performance of his duties. It is one of the most obvious duties of the State to provide a school where such information can be obtained. For much of it the miner has no place for instruction. The laboratory and lecture room are indispensable in furnishing proper persons to manage the intricate business of mining operations, on the scale in which they are now being carried on upon this coast. We are annually losing millions, by reason of our neglect in this particular.

Most of those at present engaged in mining operations are to a very great extent ignorant of how many ways a little scientific knowledge will benefit them, and how many useful hints a good practical lecturer could suggest in the course of a few lectures. Such a school as we desire to see established here, would require, say three or four evenings in each week, dividied between lectures on the chemistry and metallurgy of the metals now worked in California, and practice in the laboratory. A laboratory suitable for the practice of analysis and assay would be needed, the cost of which, properly fitted up for some twenty-five or thirty students, would be from $4,000 to $6,000, leaving each student to provide his own materials, and pay a certain charge to the instructor.

Alternate evenings might be devoted to practical and theoretical lectures on mining, by some competent person who would enter heart and soul into the subject and treat upon matters which would be of most immediate value to men about entering upon the regular business of mining, with the view of making themselves thoroughly acquainted therewith. In our next we propose to give a syllabus, such as would be appropriate for such a course, and some further remarks upon the importance of such a school.

MINING SHARE MARKET.

The Mining Share Market has manifested but little activity during the past week, save in speculative stocks. The heavy fluctuations which have recently occurred have been attended with many severe losses, and exerted an important and depressing influence over transactions generally. We note sales for the week to the amount of $989,494.25.

Ophir has been unusually quiet. We quote sales of 15½ feet, only, at from $1,610 @ 1,620; a decline of about $50.

Gould & Curry still remains inactive; we note sales of five feet at $4,700 @ 4,775; a decline from previous quotations.

Challar continues quiet; 200 shares have changed hands at from $250 @ 310, closing at the latter figure, a material improvement over the previous week.

Savage has found buyers—1 foot at $3,000 and 1 at 2,950.

Daney has formed quite an exciting feature of the week. Opening on Tuesday at $130, it reached $150 on Wednesday, $185, buyer 30, on Thursday, and closed, last evening at $220, cash. This rapid advance is due to late and important information from the mine, which is of an exceedingly encouraging nature. We have been favored with the perusal of a letter from the superintendent, which appears to fully warrant the important movement which has taken place in this stock.

Burnside has been in quite active demand for the past three days in consequence of important telegraphic advices from the mine. The effect has been to increase the extent of the transactions in this stock without any improvement in rates.

Lady Bryan has been in less in demand. We note sales of 1,583 shares at from $48, seller 30, @ 60 buyer 30. It closed with a weak market at $53 b 30. News from the mine, however, still continues encouraging.

North America has been in more demand, and generally at slightly improved rates. We note sales of 1,247 shares from $105, seller 30 @ 140 buyer 30, closing at the latter figure.

North Potosi has slightly improved in demand at about former figures. Sales of 346 shares at $54 @ 66 are noted.

Burning Moscow has not been in much demand. We note sales of 82 shares only, at $80 @ 90 b 30.

We quote sales of 222 shares of Lafayette, G. H., at $19 @ 22; 60 of Pride of the West at $82½ @ 87½; Melones, 10 at 42½; Baltic, 126 shares at $165 @ 178 b 30; Caledonia Tunnel 237 shares at $16 @ 29 b 30; La Blanca, 25 at $25½ and 5 at 27.

Nevada, Justice Ground, still continues to attract considerable attention. After suddenly advancing last week to $240, it subsequently declined to $187½, but opened the present week at $225, and still further advanced to $230 on Thursday last. This company has recently had a crushing of 100 tons of ore which yielded $87 to the ton.

Uncle Sam has sold for $600. Overman for $450. Central, No. 2, has found buyers at $825 and $850. Potosi at $1275, and Imperial at $167.50.

Harmon has still further improved, and has found buyers at $41, cash and 45 buyer 30 days.

We quote Baltimore American steady at $45@47. Buckeye, $14@16.50. Spanish, No. 2, at $20. Seneca, $16@17. Adriatic, $9. Independent, $10. Grosch, cons, $5. Blue Lead, $65. Blue Ledge, $9.50@10. Desert, $15. Crockett, $19. Smoky Valley, $35. Reservoir, $15. Gov. Nye, $5. Chas. Cany, $17. San Carlos, $15. Mary Ann, $50. Santa Rosa, $4, Mt. Davidson, $2. Nightingale, $25. North Ophir, $3. Paul Thompson, 4. Golden City, (unassessable,) $8.25. La Providencia, $2.

Napoleon, copper, may be quoted at $45. Bullion has been considerably inquired after at a material advance. We quote sales of 83 shares at $75@80 b, 30 days.

Lucerne has been much enquired for during the two past days, at an advance from $15 of last week to from $23@25 b, 30 days; closing at yesterday's board with the latter figure.

Real del Monte has still further declined, under the pressure of large quantities of stock forced upon the market in consequence of the existing excitement with regard to this mine. It has found sellers the past week as low as $46; 2116 shares have changed hands at from $46@90. We refer to remarks concerning this mine in another column.

Wide West has further succumbed to the pressure of the prevailing excitement and has found sellers at $20, closing however, at $24.

Antelope is held firmly at $200@207 and upwards. We quote Corbit at $13.50. Utah, $22.50 @27. Cora at $7. Silver Hill, at $12.

Eclipse R. R. is quoted at $9. Jefferson at $10. Ruby at $17. Metropolitan, Owens River, at 8. Victory at 4.50. East Lynn at $17. Scottish Chief, Humboldt, at $4. De Soto in demand at $40.

WASHOE STOCK MARKET.

Collated from the Regular Reports of the Virginia Daily Union to Latest Dates.

The share market in Washoe during the past week has been unusually active. A number of Boards are in operation, and great numbers of private sales are also made, which are not reported. Old established claims are held firmly, while newer locations are somewhat fluctuating. The attention of operators still continues to be chiefly directed toward American Flat, and the supposed south extension of the Comstock. An unusually large number of claims will he found reported in our record of sales.

GOLD HILL DISTRICT.—Arizona, $7 bid 14 asked. Alpha, 1,025a. Amador, 2.50a. Astor, 15b. Bullion, 56b 65a. Baltimore American, 40b. Bell Vernon, 4b 6a. Bertrand, 8a. Challenge, 9a. Claremont, 3.50b. Consolidated Company, 15b. Caledonia Tunnel, 20b 20a. Crœsus, 65a. Crown Point Ravine, 12.50b 18a. Clinton & Hubbs, 30b. Dardanelle, 8a. Frankell, 10a. Gilmore, 6a. Globe, 10b 10a. G H & M Co., 280b. Golden Eagle, 10a. Hawkeye, (Original), 70a. Jewett & Shepard, 7b 9a. Justice, 185b. John A Logan, 15a. Keystone, 37b 60a. Knicker-

bocker, 25b 29a. Louisville, 20a. Mother Lumpkins, 1b 2.50a. North American, 100b 112a. New Oregon, 19b 25a. Napoleon, 6b 8a. Oneoto, 13b 15a. Princess 7b 12a. Pulo Alto, 3b 20a. Rock Island, 16b 19a. San Francisco, 3.50b. South Bullion, 5a. Silver Vale, 3b 6a. South Baltic, 4a. San Bernard, 8a. Uncle Sam, Senior, 15b. Wall Street, 1b 1.75a. Atluntic, 6b. Argo, 5a. Barke & McClellan, 15a. Combined Effort, 20a. Crescent, 5b. Colorado, 5.50b 8.50a. Coppers, 10b 25a. Contraband, 5a. Diligent, 5a. Golden Horn, 6b. Harold, 5b. Jim McClellan, 1.75b 4a. Jenny Lind, 10a. Michigan, 50a. McMeans, & Williams, 15a. Narragansett, 1.50b 3a. Overman, 400b. Pride of America, 4a. Pontiac, 10a. Robinson, 4b. Sandy Bowers, 1.50b 7a. Vesuvius, 12b 25a. Yellow Jucket, 900b 1,025a. Yolo, 10b 15a. Monitor, 7a. Sam Patch, 4b 9a. Lady Esther, 5b. Lafayette, 16b 20a. Mary Ann, 80a. Muy Rico, 10b 20a. Miantonomah, 5b 20a. Stevenson Kehoe, 5b 19a. South Sweezy, 90a. Vulcan, 7a, Central Amerrica, 2b 12a. Effingham, 10a. Golden Swan, 4a. Golden City, 1a. Massilon, 10a. Kentucky. 3b 8a. Nevadu, 15a. Abell & Kees, 2.20b 4a. Cherokee, 4a. Curson, 7a. Golden State, 6a. Hartford, 9b. Mivas, 1.400a. Navigntion, 8b 18a. Belcher, 1.300a. Champion, 10a. Eureka, 15b 23a. G. H. & Vir. Div. 6b 14a. Pilot, 7a. Utuh, 1b. Cuba, 5a Sweezy, 100a. Branch Mint, 19.50b 30a. Gentry, 1b 6a. Northeru Light, 4.50b 20a. Cheel, 2b. Tom Paine, 5a. Sam Patch, 4a. Cursou River Lumbering Co., 500b. Pony Express, 5a. Wubash, 10a. Republic, 10a. McClellan, 1b 2.50a. Mayflower, 7a. Superior, 250b 450a. Dr Perry, 16a. Mechanics, 3b 7a. Leon, 9b 20a.

Virginia District.—Burniag Moscow, 77b 1.40a (buyer 30 days). Grass Valley, 40b 85a. Hondtras, 10b 12a. Kenosha, 3b 3a. Milton, 50b. Nightingale, 3b 4a. North Potosi, 4b 60a. Osceola, 7b 12a. Orleaas Flat, 8b. Seneca, 10a. Sierra Nevada. 100a. Santa Rosa, 8a. William Penn. 6b 12a. Bajazet and Golden Era, 25b 36a. Sutro 4b 6a. Shamrock, 14b 150a. Virginia Hill, 4.50b 9a. Grass Vuley & Napoleon, 4.50b 4.50a. Washingtoa, 6b 6a. Allen, 40a. Harrison, V. I. 20a. New Orleans, 6a. Pioneer, 10a. Ponce de Leon, 1b. Moss, 25b 17a. Birdsall, 9b 9a. Virginia Express, 6a. Russell, 3b. Ellen & Murgaret, 6a. Chollar, 312b. Winfield Scott, 9a. Utuh, 112b. Hazel Greed, 3b 6a.

Flowery District.—Atwill, 10a. Lady Bryan. 55b 70a. Lady Bryau No, 2, 3¾b 5a. Uncle Sam, 4b 5a. Yankee Blade, 6b 14a. Wealth Co. 8a. Weal Chauce, 8a. Harrison, 2b. Nolaa, 7a. Cherokee, 3a.

Alpine District.—George Law, 160a.

Devil's Gate District.—Pride of the West, 90b. Sebastopol, 8a. Dauey 75b 110a. Anua Dowd, 1b 1a.

Desert Distaict.—Nevada, 6a. Robert Ellis, 30a. Pony, 30a. Harrow, 2b 11u.

Palmyra District.—Orizaba, 25a. Rock Point, 5b. Star 25a. Rappahaanock, 25b 60a.

Indian Springs District.—Lyoa, 2a. Jackson, 25a. Randolph, 40b 40a. Whitmau, 100b.

SALES SINCE OUR LAST ISSUE.

Kenosha 6 feet at $3 per foot; Princess 5 shares at $8; Globe 10 at 10; Caledonia Tunael 20 at 20; White Dove cons 10 at 2½; Honduras 10 at 11, 10 at 12½, buyer 30 days; 10 at $9; Rock Hand 3 at 17½; 20 at 22½, buyer 30 days; 20 at 20; 50 at 22½, buyer 30 days; 19 at 20; Hartford 5 at 15; Jewett & Shepard 5 at 7; Silver Vale 10 at 5; Amador 40 at 25; Frankell 10 at 5; Bullion 5 at 50; Ciaciunati 20 at 2; Lady Bryan 5 at 70, buyer 30 days; 50 at 71, buyer 30 days; 5 at 71, buyer 30 days; Lady Bryan No. 2 25 at 3; 6 at 4; 14 at 4; King Solomon 10 at 7; 10 at 8; North Ophir 5 at 4; 20 at 3; Osceola 30 at 10; Kaickerbocker 30 at 26; 30 at 30; 15 at 28; 20 at 27; 25 at 27½; 20 at 27; 10 at 29; 20 at 26; 15 at 25½; 20 at 26; 20 at 30; 20 at 27; 3 at 26; New Oregon 50 at 22½; 30 at 20; 10 at 21; 10 at 20; 10 at 22½; 5 at 22; 30 at 20, buyer 30 days; 10 at 16; 10 at 18; Napoleon 10 at 7; Golden Eagle No. 1 10 at 6; Atlantic 5 at 8; 20 at 12; North American 10 at 110; 5 at 103; Branch Mint 100 at 20; Eugene 25 at 5; Jewett & Shepard 20 at 7; 20 at 7½; 10 at 5; 10 at 7; 5 at 3; Golden Eagle No. 1 10 at 6; Arizona 10 at 13; Narragausett 10 at 2½; Golden Horn 50 at 5; 10 at 6; Keystone 15 at 50; Rock Island 15 at 22½; 10 at 20; 20 at 21; Mother Lumpkins 10 at 5; 20 at 15; Silver Vale 10 at 6; 15 at 5; Randolph 25 at 40; Clipton & Hobbs 4 at 25; Pony Express 15 at 5; Original Hawkeye 5 at 60; St Johns 4 at 9; Abel & Keyes 5 at 3; Atlas 20 at 1½; 20 at 2; Eureka 5 at 20; Diligent 10 at 1; Schiller 20 at 10; 20 at 10½; Sam Patch 10 at 50c; Buruing Moscow 5 at 82½, buyer 30 days; Effingham 25 at 4; 25 at 4; 50 at 4; 30 at 10; Birdsall 50 at 9, buyer 60 days; 10 at 10; Mary Ann 15 at 55; Jenny Lind 10 at 4; 12 at 4½; 5 at 4; Lady Esther 50 at 5; Northern Light 50 at 7; 50 at 5½; 140 at 6; 10 at 7; 10 at 8; 10 at 7½; Gentry 20 at 4; 10 at 3; Justice 5 at 200; Burke & McClelland 23 at 5; Leon 5 at 9; Yellow Jacket 1 at 1,000; Northern Light 20 at 9; Baltimore American 5 at 50; New Oregon 5 at 19; 35 at 17½; 5 at 20; Weimer 10 at 8; Vulcau 50 at 4; South Baltic 10 at 6; Napoleon 5 at 7; Original Hawkeye 5 at 60; Moss 5 at 50.

Record of New Incoporations.

The following is a record of the names of the companies, location of the claims, and the names of the Trustees mentioned in the articles of incorporation, filed in the County Clerk's office, in this city, since our last report:—

Magdalena San Jose G. & S. M. Co.—San Ygnacio district, Sonora, Mexico; N. Atkinson, R. P. Franklin, W. W. Battles, S. Reynolds and Chas. Phelps.

Otate S. M. Co.—Magdalena district, Sonora, Mexico.; Same as above.

Bigiow G. & S. M. Co.—Amador district, Lander county, N. T.; Jo. seph Healy, A. J. Bigiow, E. E. Meek, A. C. Nichols and G. P. Sparks.

San Luis Rey G. & S. M. Co.—San Antonio district, N. T.; J. P. Courtier, J. A. Drinkhouse, D. W. Chambers and Henry Baker.

Champion M. Co.—Sierra district, Humboldt county, N. T.; Ed. R. Hightou, Henry E. Bighton and Isaac B. Cutter.

Neptune M. Co.—Sierra district, Humboldt county, N. T.; Geo. G. W. Hoge, Henry E. Highton and Thos. S. Oldham.

Star Spangled Banner G. & S. M. Co.—Silver Mountain district, Amador county; Thomas Thompson, J. C. E. Kleipzig, Ed. Wenzel and J. E. Jorgenson.

Morning Light G. & S. M. Co.—Silver Mountain district, Amudor county; Same as above.

Wide Awake G. & S. M. Co.—Silver Mountain district, Amador county; Same as above.

Grey Eagle G. & S. M. Co.—Santa Catalina district, Los Angeles county; George Gibbons, Joel Byrnes, S. W. Smith, Lucius Eddlebert and Joshua C. Shields.

Bucon Mill & M. Co.—Gold Hill district, Storey county, N. T. Hirram Baker, M. C. Hillyer, Edward J. Pringle, A. C. Hamilton and Chas. S. Fairfax.

Leviathan G. & S. M. Co.—Keyes district, Mono county; E. C. McComb, E. N. Conway, R. H. Waller, R. M. Wilson and W. H. Graham.

Fannie Rayne G. & S. M. Co.—Inyo district, Tulare county; Thos. Brownjohn, E. C. McComb, B. G. Cortes, R. H. Waller and J. S. Brodie.

Wellington C. S and Copper M. Co.—Pittsburg district, Shasta county; John Bethell, Edward Alexander and John Kessler.

Steamboat S. M. Co.—Sierra district, Humboldt county, N. T.; Richard M. Jessup, E. A. Pool, G. K. Gluyes, Henry Wort and Wm. H. Moore.

Jewett G. & S. M. Co.—Gold Hill district, Storey county, N. T.; C. E. McNear, J. C. Cahill, W. B. Farnham, Stephen Otis, and A. M. Comstock.

Scott G. & S. M. Co.—Amador district, Lander county, N. T.; O. L. Morrell, G. N. Briggs, D. Roche, J. Robertson and Geo. C. Flint.

McCrawen G. & S. M. District No. 2.—Tuolumne county; J. R. Mead, J. N. Gillis and J. A. Drinkhouse.

Magna Charta G. & S. M. Co.—Silver Mountain district, Amador county; Thos. Ryan, Wm. H. Ryan and John Nash.

Harold M. Co.—Gold Hill district; N. T; Edward J. Pringle, John R. Harold, Willlar Chollar, Henry Y. Darrell and S. Belden Mills.

Bancl of Sierra G. & S. M. Co.—Sierra district, Humboldt county, N. T; J. B. Hebbron, J. O. Batchelder and —.

Vidonia G. & S. M. Co.—Reese River district, Lander county, N. T; Henry Sutro, Chus. Sutro and Albert Sutro.

NEVADA TERRITORY.

We gather from the Territorial papers the following names of mining companies which have recently filed papers of Incorporation in Nevada Territory:—

Norbury & Lybecker Consolidated G. & S. M. Co.—Gold Hill district; A. Haas, J. C. Ealberg, S. N. Hoonbrook, Theodore W. Thompson, William Norbury.

Mogul G. & S. M. Co.—Desert district; Leonard Yust, Hale Vesey, J. H. Morison.

Gold Hill G. & S. M. Co.—Desert district; Leonard Yust, O. W. Stone, H. M. Vesey.

Emblem G. & S. M. Co.—Palmyra district; Henry Van Horn, Henry Van Doren, L. W. Barber, G. Heckes, W. G. Lee.

Davis G. & S. M. Co.—Red Mountain District; S. H. Pefley, C. W. Ridgeway, S. Davis, B. F. Jackman, Charles Matheson.

Occidental Consolidated Mining Co.—Gold Hill district; William Arrington, H. B. Summers, J. L. Black.

Muy Rico G. & S. M. Co.—Gold Hill Mining district; L. E. Bulkley, J. W. Imeroux, John T. Miller.

Mermon G. & S. M. Co.—Gold Hill district; John Kneeland, A. K. Grlm, G. W. Gordon.

Young G. & S. M. Co.—Gold Hill district; A. W. Allict, J. L. Moore, L. Young, G. H. Mather, Fenno Downer.

I X L M. Co.—W. Smith, Jas. G. Rule, Chas. Gorin.

Last Jnmeson G. & S. M. Co.—W. R. Morris, N. A. Chandler and Marshon.

Antelope S. M. Co.—Virginia district; S. Heyman, R. P. Smith, J. W. Phillips, R. C. Chappel, W. H. Bremer.

Utica M. Co.—Flowery district; S. H. Bennett, G. W. Creeley, A. H. Manning, C. C. Warner, J. S. McReynolds.

The Great Western Coal Company.—El Dorado Canon; Walter B. Harrub, Charles Goll, M. J. Henley.

Key Stone G. & S. M. Co.—Big Creek district; Chas. A. Webster Jas. D. McDowell, Robt. McClarley.

Rough & Ready M. Co.—Amador district; Isaac A. Hoose, Urial Gates, B. B. Troxel.

Ohio G. & S. M. Co.—Reese River district; Wm. Rogers, Julius Siehel, Thos. Lose.

Ben Franklin G. & S. M. Co.—Amador district; O. C. Redd, S. E. Gaskill, P. Canavan.

Rough & Ready No. 2, G. & S. M. Co.—Amador district; Bob Hawxhurst, L. M. Duncan, George Bouney.

North American G. & S. M. Co.—Gold Hill district; Samuel Hyatt, F. G. Heuston, and H. P. Wells.

Harold M. Co.—Gold Hill district; George D. Roberts, M. Byrne, Jr., A. A. Welch, M. Broyhill and John R. Harold.

Rock Point G. & S. M. Co.—Palmyra District, County of Lyon; M. W. Irwin, J. C Black and A. P. Atkins.

Plymouth Rock G. & S. M. Co.—Gold Hill district; Charles F. Duval, Joseph Nelson, Thomas Fitch, Thomas Hannah and Theodore A. Hale.

The Great Western Coal Co.—El Dorado Canon; Walter B. Harrub, C Doll and M J Henley.

Telegraph G. & S. M. Co.—Palmyra district, N. T.; C. W. Walton, John Snodgrass, E. C. Shaw, D. E. Jones and L. Solomon.

Amazon C. & S. M. Co.—Black Prince Ledges Nos. 1, 2 and 3, Indian Springs district, Lyon county, N. T.; Jas. S. White, Samuel Chapman and J. S. Crosman.

Eureka G. & S. M. Co.—Palmyra district, N. T.; J. S. Crosman, J. M. Sanders, R. R. Warder, J. H. Thompson and A. Brimhall.

Mining Advertising Edition.

We shall hereafter issue our advertising edition on Wednesday, thus giving Mining Notices the benefit of a semi-weekly insertion. A large number of copies will be gratuitously circulated in San Francisco and the interior towns, and Nevada Territory. All advertisements and reading matter for the advertising edition will also appear regularly in the Saturday's issue of the Press.

Rates of Advertising, for Mining Companies, $2.50 per square for one month. Notices of sales published five times for $2.50 per square.

DEWEY & CO.,
Publishers Mining & Scientific Press, 56, 57, 59, Government Building, San Francisco.

J. M. Wolf is our Agent for Virginia City, Gold Hill and neighboring districts.

Before Cutting the Leaves of this journal, stitch each No. through the back, or fasten with a large pin, and you will have a paper in the most convenient form possible for reading or reference.

MACHINISTS' TOOLS.

Nothing perhaps is more wonderful in the progress of invention than the efforts which have been made by machinists in devising and constructing the *tools* by which they are enabled to work out such wonders with wood and iron, as we now see everywhere about us. The common things of tho present day would have been almost or quite impossible an hundred, or even fifty, years ago. Take, for instance, the engine which propels tho magnificent steamer Constitution. Would the mammoth cylinder of that steamship ever have been conceived if the finish of its interior surface had been required to be performed by "chipping" and "filing," as were the engine cylinders in use fifty and seventy-five years ago? We think not. Take a first-class, highly-finished locomotive of to-day, and conceive the difficulties which would have attended its construction a hundred years ago, as only those can who, in their 'preatice days, were familiar with the tediousness in performing, by haud labor, those operatious in fabricating its moviug parts, which are aow so quick'y aad perfectly accomplished by the plauiag, shaping and slatting machines, which have mainly come iato use withiu the recollection of the present generation. Would the coastructioa of such a piece of machiaery have been uadertakea an huudred years ago, except as the result of the slow toil of almost a lifetime. The great cost of such work would have rendered its practicability out of question.

We think it is uot claiming too much to hold that the great advance in mechanical operations, generally, which forms such an important feature of the present day, is due almost exclusively to the preliminary introductioa of *tools*, by which labor has beea vastly ecouomized, and its results brought to its present almost perfect mathematical accuracy. It was only by the employment of tools which performed their work with the greatest attainable degree of accuracy, that Col. Colt was eaabled to turn out such an efficieat fire-arm, aud at so low a price as to place it within the reach of every one. No process of haad finish, however skillful aad elaborate, could turn out muskets of a quality now almost indispensable, by means of which any oae part of any musket may be made to fit exactly in its place, in every other of a thousand in aumber; so that on a battle-field, or under any other circumstaaces, unless two muskets are injured in precisely the same place, one perfect weapon may always be made in a moment out of two crippled ones. It is impossible for hand power, however skilful it may be, even to arrive at the exactuess aad precision of machiaery.

It is with pleasure that in our frequent visits to the various machine shops throughout this city, we observe the coastaat additioas that are being made to our general stock of machinists' tools of the latest aad most approved patterns. Our principal shops, at the present time, appear to be eagaged in a generous rivalry to the eud that aeither shall out-do the other in this directioa. We hope to see this spirit of energy aud enterprise continue, until San Fraacisco shall stand as much the acknowledged head of all other places, in this particular, as she already does in the coaceded advaatages of her geographical position for reachiag the highest point of commercial supremacy among the cities of the earth.

Office of the Belle Silver Mining Company, Santa Fe District, Lander county, Nevada Territory. San Francisco, Feb. 23, 1864.—Notice is hereby given that at a meeting of the Board of Trustees of the above Company, held this day, an assessment (No. 2) of fifty cents per share has been levied on each and every share of the capital stock, payable immediately, in gold coin, to the Secretary at his office. J. S. LUTY, Sec'y, 305 Montgomery. 9v8-4t.

Maryland Silver Mining Company, Santa Fe District, Lander county, Nevada Territory. Office 305 Montgomery street, San Francisco, Feb. 25, 1864.—Notice is hereby given that at a meeting of the Board of Trustees of the above named company, held this day, an assessment of fifty cents per share has been levied on each and every share of the capital stock, payable immediately to the Secretary, at his office. By order of the Board of Trustees' 9v8-4t. J. S. LUTY, Sec'y.

Mr. Jarvis Jewett is our duly authorized advertising agent and collector in this city.

Professor Whitney's Address.

Professor Whitney delivered an address, regarding the State Geological Survey, in the Assembly Chamber at Sacramento, on Wednesday evening of last week. The *Bee* reports the attendance not very large. Perhaps there might have been upon the floor one-third of the members of the Legislature, and ladies and gentlemen not connected with the law making department enough to fill half the seats. The gallery was well filled. The meeting was called to order, and Mr. Yule of the Senate was chosen Chairman. He introduced Professor Whitney, State Geologist, who at once commenced delivering his address, reading from manuscript. He said this was the third time he had appeared before the Legislature to give an account of his doings, and he thanked them for what they had done for the development of the geology of the State, and hoped they would continue their favors to the work. When at the East, after he had decided to come to this State, he met a returned miner, who with many expletives, which savored more of strength than righteousness, informed him that before he got through with that job he would find himself in many a tight place. He supposed at the time that the hardy miner aforesaid referred to grizzlies, who would manifest an affection for his scalp, and embrace him to death, or something of that description, but the principal tightness he had found was in the Legislature, in regard to the disbursements from the State Treasury for geological purposes. He had arrived at the conclusion that the survey would be very popular if it cost nothing. Newspapers of large size had published doleful articles upon the expense of the State survey, and pointing out that the State Geologist was running the impoverished State into debt, but he never saw that they advised the abandonment of the Coast Survey, though Uncle Abraham was settling his accounts with the rebellious States on the metallic basis of lead and iron and required all his means. Had there been a time fixed for the survey to end, the survey corps could make some calculations, but with a sword suspended by a single hair over their heads, they had to be prepared to quit at any time. It was like requiring the architect of the Capitol to be ready to cease his labors on that building at any day, and place the roof and dome upon the foundation walls, and yet have the structure fit for use. It would certainly not be his fault if the building presented somewhat of a squat appearance. The speaker then proceeded to speak of the divisions of his work, and also of the geography and topography of the country, of which the people of the State were profoundly ignorant. Previously to the survey the citizens were not aware that there were higher mountains than Diablo visible from San Francisco. But little was known of the Sierras, especially that portion between Yosemite and Walker's Pass. Here was an area as large as the State of Massachusetts almost entirely unknown. The maps which had been in use were very incorrect. The corps had completed several maps of different portions of the State by actual survey, and several more were under way. The map of San Francisco Bay would be good for one hundred years. In the course of their researches the corps had ascended three points on the Sierras as high as 13,000 feet above the level of the sea, and for three weeks did not descend lower than 8,000 feet. It was hard climbing, rock shinning and bush ranging. They had co-operated with Major Williamson of the United States Survey, in taking observations to ascertain concerning the variations of the barometer on the Pacific coast. They had specimens of animals and reptiles disentombed from rocks, and they had ascertained that the coal range extended quite through the State from San Diego to Siskiyou. The only counties not visited by some of the corps since the survey commenced were Klamath, Humboldt and Mendocino. The corps had been expected to prospect the State and they had done so, and were continuing to do so. They went upon certain rules and they could give general results. They were assisted by 10,000 men who did not draw their pay from the State Treasury, but who impoverished the State far more by their waste. By their mode of prospecting it would take some 3,500 years to prospect the whole State, which is three times as large as New York, and twenty-four times as large as Massachusetts. He noticed one instance of waste where the corps told the manager of a certain mine that he was not saving all the gold. The manager was confident that he was. A scientific investigation showed that he was losing at least two-thirds of the precious metal. A few hints given were acted upon, and if this system was generally adopted there would be enough saved in the State in a year to pay the entire yearly expense of the survey two or three times over. They had sent specimens of every description to eminent men and to the museums of the East and Europe. The speaker gave his ideas concerning a museum, and pointed out the financial means of erecting a building suitable for this purpose and for a laboratory and a practical school of science. In his opinion the State University Fund should be used for this building. There were several objections to using the new State Capitol for a museum. It would not be completed in time and there would not be room enough in it to spare. The specimens in the museum would not be well cared for. He had been told that specimens of quartz containing $2,500 in gold had been sent to one of the past Secretaries of State. They were put in the cellar of the present Capitol, and what was not pocketed was thrown into the streets of Sacramento for Macadamizing purposes. If rare mineral, botanical and animal specimens were well cared for and kept where the entire people could see them, they would pour in from all parts of the State. It had been proposed to divide the University Fund between the three existing Universities in the State, but there was the Constitutional objection that they were all of a sectarian character. Professor Whitney read extracts from the memorial of the Trustees of the College of California, at Oakland, to the Legislature, asking for the entire fund. He proceeded to "waltz" into that institution, which he haudled without gloves. Their memorial, to give it the very gentlest name, was a "pious evasion." Some people might call it by a much harsher title. It represented the geological school as in full operation, when one of the professors named was in the Colorado mines and another in Washoe. The constitution of the institution provided that not only a majority of the trustees, but a majority of the professors must be members of an evangelical Christian church, and that this must be the case for all time. This shuts out from those positions Catholics, Unitarians, Universalists, and other liberal Christians. Not a professor of old Harvard, if the whole corps of those learned men should offer their services gratis, could be allowed to fill one of those professorships. Judging from the list, the college was an asylum for decayed clergymen—as every professor had a "Rev." before his name. Professor Whitney thought when the survey was commenced that $30,000 per year should be appropriated for fifteen years, which would make $450,000. The survey of Pennsylvania cost $500,000. The least he thought should be appropriated was $20,000 per year. If that amount was granted, he would try and keep the corps together. If the Legislature did not see fit to do it he should never regret the three years he had spent, however hazardous and laborious was his work in that time.

Washoe Stock Exchange Building.—The Virginia *Union* says that work on the new hall of the Washoe Stock and Exchange Board is progressing rapidly, and it is intended to have it completed by the first of March. It will be much larger and more comfortable than the old room, having a circular dome of colored glass in the ceiling, which will be finished in fine style. The cost of putting this new place of meeting in order will not be less than one thousand dollars.

California Wool.—An extensive auction sale of wool occurred in Boston on the 17th ult. The prices obtained were: For California 21@27; California lamb, 27; California fleece, lamb, 20@35; California superior pulled, 45; California superior pulled, No. 1, 37.

SQUARZA'S PUNCH.

FIRST PREMIUM

AT THE SACRAMENTO AGRICULTURAL STATE FAIR FOR THE YEAR 1862.

ALSO; FIRST PREMIUM

At the San Francisco, Bay District Agricultural Fair, 1862.

MANUFACTORY, WHOLESALE AND RETAIL,

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Dealer in Clothing and Gent's Furnishing Goods,

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W. R. MAURICE,

Stock Broker, Real Estate Agent

And Mining Secretary.

Office, No. 708 Montgomery Street, San Francisco. Reference—Messrs. Parrott & Co., Bankers. 8v8.tf

THOMAS HILL,

Member of the S. F. Stock and Exchange (1st) Board.

A. H. MURDOCK,

Member of Stock Exchange.

No. 623 Montgomery Street. Opposite Montgomery Block,

SAN FRANCISCO.

HENRY BAKER AND JOS. N. SOUTHER,

Mining Secretaries & Brokers.

Rooms 12 & 14 Athenæum Building, corner Montgomery & California Streets, San Francisco.

B. & S. will attend, in a prompt and satisfactory manner, to the Incorporation of Mining and other Companies, the purchase and sale of Stocks and Real Estate, and the adjustment of accounts. 8v8-m

H. S. HOMANS,

NOTARY PUBLIC,

And Commissioner of Deeds for Nevada Territory,

MINING SECRETARY, CONVEYANCER, ETC.,

New Stock Exchange rooms, Montgomery Street, next door to the Bulletin Office, San Francisco. 1-1m

T. C. SANBORN & CO.

Stock Brokers,

No. 630, Montgomery Street,.....San Francisco.

OPHIR SILVER MINING STOCK,
GOULD & CURRY MINING STOCK,
CHOLLAR MINING STOCK,
CALIFORNIA STEAM NAVIGATION COMPANY'S STOCK,

☞ **BOUGHT AND SOLD.** ☜

jtf.

W. F. DENCKLA. A. L. CHAMBERLIN.

DENCKLA & CHAMBERLIN,

Stock and Exchange Brokers,

No. 413 Montgomery Street,

SAN FRANCISCO.

☞ Deeds, etc., for record in Humboldt County, Nevada Territory, received and forwarded. 1-tf

BENNIE & MORRISON,

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MEMBERS OF THE STOCK AND EXCHANGE BOARD OF BROKERS and of the PACIFIC BOARD OF BROKERS.

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Stock and Exchange Brokers,

308 Montgomery Street, corner of Pine,

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QUARTERMASTER'S WARRANTS BOUGHT. THE HIGHEST Price paid for Legal Tender Notes. Open till 9 P. M. 1-3m

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No. 726 Monigomery street, Up Stairs,

5v8-2m SAN FRANCISCO, CAL.

REMOVAL.

J. R. BEARD, STOCK BROKER,

MEMBER SAN FRANCISCO STOCK AND EXCHANGE BOARD,

HAS REMOVED HIS OFFICE TO

5v8-tf No. 707 Montgomery street, Brokers' Block.

Wide West Mining Company.

NOTICE.

The Office of the Wide West Mining Company

Is Removed to No. 113 California street, San Francisco,

6v8-4t JOHN F. POPE, Secretary.

Removal.

M. G. ELMORE,

MINING SECRETARY,

—REMOVED TO—

No. 645 Clay street, between Montgomery and Kearny, up stairs. 6v8-4t

Owen's River Canal Company.

FOR SALE, FOR ACCOUNT OF THE COMPANY, 7,000 SHARES of the above stock, at $1 per share. It is confidently presented to the public as the best investment, for the price, now offered this market.

Office of the Company No. 323 Montgomery street. 1tf

BUSWELL & CO.,

Book-Binders, Paper-Rulers,

And Blank-Book Manufacturers.

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WM. P. TAAFFEE,

IMPORTER AND JOBBER OF

Staple and Fancy Dry Goods, Carpets, Duck, etc.,

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D. NORCROSS,

MILITARY GOODS OF ALL DESCRIPTIONS. NAVY TRIMMINGS AND EMBROIDERIES. REGALIA FOR ALL ORDERS.

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Mining and Real Estate Agent,

Office, S. W. corner Pine and Silver Sts., Aurora.

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BUY AND SELL MINING STOCK ON COMMISSION. ARE MEMbers of the San Francisco Stock & Exchange Board, and of the San Francisco Board of Brokers. nov23-tf

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IMPORTERS AND JOBBERS OF

WOOD AND WILLOW WARE,

Brushes, Twine, Cordage, Etc.,

And Manufacturers of California Pails, Tubs, Brooms, Etc.,

217 and 219 Sacramento St., between Front and Davis,

2-tf SAN FRANCISCO.

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General Furnishing Undertaker,

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MANUFACTURERS AND IMPORTERS OF

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BRIDLES, WHIPS, COLLARS, SADDLERY WARE, Etc.,

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Blanks of all kinds printed and ruled to any desired pattern. 12-tf

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Juvenile and School Books, Stationery,

Kustel's California Gold and Silver Processes of Extraction, Etc., Etc.

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Prime Blasting Powder, on Consignment

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MARBLE WORKS,

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Mantels, Monuments, Tombs, Pinmbers' Slabs, Etc.,

On hand and Manufactured to order.

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OF THIS COAST.—THE UNDERSIGNED, HAVING SUCCEEDed in manufacturing Muffles, Assay Crucibles, Scorifiers and Annealing Cups, offers them for sale at reasonable prices. Also, orders for Assayers' Implements and Materials received and carefully attended to. H. HERZER.

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CHAS. F. RIEHN, late U. S. Branch Mint, gives lessons in Assaying, also in Mineralogy and Chemistry, as far as required to become a practical Assayer.

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REFERENCES:—Prof. J. D. Whitney, State Geologist, San Francisco; Alsop & Co., San Francisco; Sather & Church, San Francisco; John Parrott, San Francisco; D. O. Mills, Sacramento. 11f

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Advantageous Terms for Prospector's Clubs and Mining Companies.

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ARE PREPARED TO WORK GOLD AND SILVER ORES, IN large or small quantities.

Working assays made of small lots, and all kinds of ores crushed at short notice.

Our new and complete Machinery, will enable us to give results fully up to the merits of rock.

WHEELER & THAYER, Proprietors.

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San Francisco, Oct. 13, 1863. j2tf

HOWLAND, BELL & CO.,

Copper Crushing and Grinding.

Attend to all kinds of Grinding & Crushing,

—SUCH AS—

COPPER ORES, MARBLE DUST, FIRE-BRICK DUST, DRUGS,

And Feed of all Kinds,

All of which will be Ground at the Shortest Notice.

—ALSO—

California Mineral Paint and Mineral Polishing Powder.

Works—No. 537 Market Street.

San Francisco, January 1st, 1864. 1-tf

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Bullion and Assay Ballances, Furnaces, Muffles, Crucibles, Cupels, Acids, Etc., Etc.

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PUBLIC EXCHANGE,

Conducted on the same fair business principles that characterize similar institutions in Europe and America, an urgent necessity in this city.

The public are therefore informed that a suitable building has been erected, at 612 and 614 Montgomery St., in which will be held Daily Sessions for the sale of Stocks, Bonds, Securities, Specie, etc., under the following Board of Directors, and subject to the following Rules and Regulations:

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GEORGE W. DART, President.

WALTER SPARROW,	E. H. WILSON,
JOSEPH CLOUGH,	R. O. STURTANT,
HENRY WILLIAMS,	D. J. OULLAHAN,
E. PAVALLIER,	EDWARD FLANAGAN,
THOMAS WALLACE,	J. DE STA. MARINA,
M. G. ELMORE,	E. W. LINSLEY.

Rules and Regulations.

1. The business of the Exchange shall be managed by a Board of thirteen Directors, to be elected annually, and to whom application for membership shall be made. Any question or issue raised touching contracts, made at the Board, their validity or meaning, shall be referred to a committee of five, for investigation and final decision.
2. The Sessions of the Board shall be from 12 to 1 P. M., and from 3 to 4 P. M., each day, Sundays excepted.
3. Only members of the Exchange shall offer Stocks, etc., for sale.
4. The public may bid upon and purchase any Stocks, Bonds, Securities, Specie, etc., that may be offered for sale.
5. Buyers of Stock who are not members must either make a deposit of Ten (10) per cent. of the purchase money at the time of sale, or have their contracts endorsed by a member.
6. Should any member or party refuse to fulfill a contract entered into by him at a Session of the Board, he shall thereafter be debarred from all privileges of the Exchange, at least until he shall have specially performed such contract.

Commissions on Sales

Of United States, State, County and City Bonds; Railroad, Steamboat, Telegraph, Gas, and Water Stocks; Certificates, Bills of Exchange, Treasury Notes, Specie, etc., one-half of one per cent.

Commission on Mining Shares:

Sale at $1 up to $10	$0 25 per foot
Sale at $10 up to $25	50 per foot
Sale at $25 up to $50	1 00 per foot
Sale at $50 up to $100	1 50 per foot
Sale at $100 up to $200	2 50 per foot
Sale at $200 up to $400	5 00 per foot
Sale at $400 up to $600	6 00 per foot
Sale at $600 up to $800	7 50 per foot

From $800 to $3,000 per foot, one per cent. Anything above $3,000 per foot, three-quarters of one per cent. 7v8-tf

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WOOD WORK FOR ALL KINDS OF MACHINERY.

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MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED

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THE COMPANY HAVING BEEN TO A LARGE EXPENSE IN enlarging their Works, are now prepared to contract to work any quantity of Gold and Silver Rock, nearer the true assay than any other Company in this Country, or Europe.

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S. C. BRADSHAW, Jr., Secretary.

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How to make your Remittances.—In most of the mining towns, brokers will furnish checks on San Francisco at par, (or at a very slight advance) to those who wish to pay us for subscriptions, advertising, mining blanks, etc. When it is more convenient, money may be remitted by mail at our risk if the parties sending will register their letters. Money sent by mail is seldom lost if properly enclosed. An excellent method is that of opening the layers of a card, placing the coins between the layers and sealing the edges together.

Stock Reports.

SAN FRANCISCO STOCK BOARDS.

Sales by the San Francisco Stock and Exchange Board, the Stock Exchange, and the Pacific Board of Brokers.

[Revised for the Mining and Scientific Press.]

Saturday, February 20, 1864.

S. F. STOCK AND EXCHANGE BOARD.

5 shares Burning Moscow, at $85 per share.
10 do Burning Moscow, at 85—regular way.
30 do Real del Monte, at $76½.
11 do Real del Monte, at 78.
5 do Real del Monte, at 77½.
10 do Real del Monte, at 79.
5 do Real del Monte, at 77½.
10 do Real del Monte, at 77.
30 do Real del Monte, at 76.
10 do Real del Monte, at 77½, r w.
15 do Real del Monte, at 80, buyer 30 days.
10 do Real del Monte, at 74, seller 30 days.
20 do North American, at $112½, b 30.
20 do North American, at 110.
20 do North American, at 108.
10 do North American, at 105, s 30.
10 do Meiones, at $42½.
10 do Pride of the West, at $82½.
20 do North Potosi, at $54.
9 do North Potosi, at 54, s 3.
15 do Nevada, Justice Ground, at $190.
10 do Nevada, J. G., at 187½, s 5.
10 do Eclipse, R. R., at $9.
80 do Lafayette, G. H., at $19.
50 do Baltic, at $165.
10 do Lady Bryan, at $55.
40 do Lady Bryan, 54, r w.
119 do Lady Bryan, at 54.
20 do Lady Bryan, at 53.
60 do Lady Bryan, at 53, r w.
37 do Lady Bryan, at 52½.
45 do Lady Bryan, at 56½, b 30.
20 do Lady Bryan, at 56, b 30.
82 do Lady Bryan, at 53½.
10 do Lady Bryan, at 54 r w.
20 do Lady Bryan, at 57½, b 30.
10 do Baltimore American, at $45.
4 do Gould & Curry, at $4775 per foot.
40 do Dancy, at $175 per foot, s 30.

AFTERNOON SESSION.

4 do Uncle Sam, at $600, b 30.
2 do Uncle Sam, at 600.
10 do Lady Bryan, at 54½.
10 do Lady Bryan, at 55.
10 do Lady Bryan, at 56.
30 do Lady Bryan, at 57.
20 do Lady Bryan, at 56¾.
10 do North American, at $106, s 5.
50 do North American, at 115, b 30.
20 do North American, at 110.
10 do North American, at 115, s 15.
10 do North American, at 112½.
10 do North American, at 113.
15 do North American, at 115.
25 do North American, at 120.
62 do North American, at 130, b 30.
18 do North American, at 130, b 25.
20 do North American, at 120, s 30.
10 do North American, at 123.
10 do North American, at 125, s 30.
10 do North American, at 125.
72 do Lafayette, G. H., at $19.
5 do Burning Moscow, at $90, b 30.
15 do Burning Moscow, at 85.
11 do Real del Monte, at $75.

PACIFIC BOARD OF BROKERS.

5 do Real del Monte, at $85, b 30.
1 do Real del Monte, at 85.
10 do Real del Monte, at $90, b 30.
10 do Real del Monte, at 85, b 30, no deposit.
10 do Real del Monte, at 75, s 10.
10 do Real del Monte, at 81, b 30.
5 do Real del Monte, at 77.
5 do Real del Monte, at 80, b 30.
40 do Burnside, at $15.
10 do Burnside, at 16, b 30.
40 do Burnside, at 14.
10 do Burnside, at 14, b 3.
20 do Caledonia Tunnel, at $19, s 30.
10 do Caledonia Tunnel, at 22½, b 30.
10 do Caledonia Tunnel, at 22½, b 30.
10 do Caledonia Tunnel, at 20.
20 do La Blanca, at $26½, a p.
5 do La Blanca, at 27, r w, a p.
20 do Lady Bryan, at 51.
15 do Lady Bryan, at 53.
10 do Lady Bryan, at 57, b 30.
30 do Lady Bryan, at 55, b 3.
15 do Lady Bryan, at 55,
10 do Lady Bryan, at 54, 3 d.
10 do Harmon, at $30.
20 do East Lynn, O. R., at $15½.
10 do East Lynn, O. R., at 16.
4 do Burning Moscow, at $85, b 30.
4 feet Burning Moscow, at 80.
5 shares Knickerbocker, at $32, b 30.

S. F. Stock and Exchange Bd. sales.....$131,052 50
Pacific Board of Brokers' sales..... 14,570 00

Total sales of the day, by both Bds.... 145,622 50
[No sales on Monday.]

Tuesday, February 23.

S. F. STOCK AND EXCHANGE BOARD.

4 shares Gould & Curry at $4700 per foot, s 30.
16 do Ophir at $1610 per foot.
12 do Dancy at $130 per foot.
16 do Dancy at 140 per foot, b 30.
4 do North Potosi at $55 per share.
5 do North Potosi at 60.
10 do North Potosi at 65, r w.
10 do North Potosi at 65
10 do North Potosi at 65, s 20.
20 do North Potosi at 64.
10 do North Potosi at 64½.
40 do North Potosi at 63.
10 do North Potosi at 63, r w.
20 do North Potosi at 65, b 30.
10 do North Potosi at 62.
10 do North Potosi at 64, b 30.
3 do Imperial at $160,
2 do Real del Monte at $72.
105 do Real del Monte at 70.
10 do Silver Hill at $13.
85 do Lady Bryan at $55.
25 do Lady Bryan at 56.
10 do Lady Bryan at 57.
50 do Lady Bryan at 55, s 30.
50 do Lady Bryan at 56½.
10 do Mary Ann at $50.
10 do Nevada, J. G., at $200, s 30.
5 do Nevada, J. G., at 220.
30 do Baltimore American at 46¼.
20 do Baltimore American at 45, s 30.
30 do Baltimore American at 47.
10 do North American at $120.
50 do North American at 117, s 30.
10 do Baltic at $175, b 30.
10 do Spanish No. 2, at $20.
10 do Lafayette, G. H., at $18.
3 do Antelope at $207.
10 do Seneca at $17.
5 do Eclipse, R. R., at $8.

AFTERNOON SESSION.

10 do North Potosi at $62½, b 30,
5 shares North Potosi at 62.
24 do North Potosi at 64.
30 do North Potosi at 65.
10 do Pride of the West at $87½.
20 do Real del Monte at $69.
20 do Real del Monte at 68.
10 do Real del Monte at 70, b 30.
135 do Real del Monte at 67½.
10 do Real del Monte at 70½, b 30.
20 do Real del Monte at 71, b 30.
10 do Real del Monte at 67.
10 do Real del Monte at 67, r w.
100 do Real del Monte at 66.
30 do Real del Monte at 66¼.
20 do Real del Monte at 65.
5 do Real del Monte at 64¾.
5 do Real del Monte at 67½, b 30.
5 do De Soto at $35.
20 do De Soto at 35, b 30.
50 da North American at $120, b 6.
5 do North American at 120, b 5.
20 do North American at 120.
10 do North American at 121, r w.
35 do North American at 122.
10 do North American at 122, r w.
3 do North American at 121, s 4.
25 do Nevada, J. G., at $22, s 5.
2 do Nevada, J. G., at 230, s 4.
10 do Lady Bryan at $56.
15 do Lady Bryan at 55.
5 do Wide West at $21, s 90.
10 do Bullion G. H., at $75.
10 do Baltimore American at $46.
15 do Baltimore American at 45, s 30.
5 do Overman at $450, b 30.
2 do Overman at 440.

PACIFIC BOARD OF BROKERS.

5 do Lady Bryan at $57.
10 do Lady Bryan at 56½.
10 do Lady Bryan at 56.
10 do Lady Bryan at 59, b 30.
10 do Lady Bryan at 60, b 30.
10 do Lady Bryan at $60, b 30, n d.
50 do Santa Rosa at $3½.
30 do Santa Rosa at 4.
10 do Burnside at 12¾.
10 do Burnside at 13.
10 do Burnside at 12¼.
25 do Mount Davidson at $2.
5 do Napoleon, copper, at $45.
10 do Real del Monte at $70, s 10.
5 do North Potosi at $60.
10 do Harmon at $35.

STOCK EXCHANGE.

10 do Victory, O. R., at 4¼.
10 do Victory, O. R., at 4¼.
20 do Corbitt, E., at $18½.
10 do Florence Nightingale at $15.
10 do Independent at $10.
10 do Lafayette, G. H., at $22.
25 do Grosch Consolidated at $5.
20 do Paul Tompson at $4.
10 do Imperial, G. H., at $167½.
25 do East Lynn, O. R., at $17.
20 do Golden City (unass.) at $8¼.

S. F. Stock and Exchange Bd. sales....$144,146 50
Stock Exchange sales 3,299 50
Sales by the Pacific Board of Brokers.. 5,502 50

Total sales of the day, by all Boards.. 152,946 50

Wednesday, February 24.

S. F. STOCK AND EXCHANGE BOARD.

20 shares Dancy at $135 per foot.
40 do Dancy at 142½ per foot.
40 do Dancy at 145 per foot.
40 do Dancy at 145 per foot, s 30.
20 do Chollar at $250 per foot,
20 do Burnside at $13, b 30.
20 do Burnside at 12.
20 do North Potosi at $66.
5 do North Potosi at 62.
10 do Desert at $15.
20 do Baltimore American at $16, r w.
10 do Baltimore American at 15½.
7 do Nevada, Justice Ground, at $225.
2 do Real del Monte at $61,
30 do Real del Monte at 58.
10 do Real del Monte at 57½.
22 do Real del Monte at 55.
5 do Real del Monte at 53.
20 do Real del Monte at 50.
25 do Real del Monte at 48.
40 do Real del Monte at 49.
20 do Real del Monte at 51, b 30.
5 do Real del Monte at 47.
30 do Real del Monte at 51, b 30.
10 do Real del Monte at 50.
5 do Real del Monte at 52.
20 do Real del Monte at 55, b 30.
15 do Real del Monte at 54.
10 do Real del Monte at 60, b 30.
10 do Real del Monte at 56, b 30.
20 do Real del Monte at 55, b 30.
10 do Real del Monte at 53, r w.
20 do Real del Monte at 53½ r w.
10 do Lafayette, G. H., at $19.
20 do Lady Bryan at $54.
30 do Lady Bryan at 53, s 30.
30 do North American at $124.
20 do Bullion, G. H., at $75, b 30.
5 do Lucerne at $25, b 30.
10 do Caledonia Tunnel at $22½, b 30.
20 do Utah at $27.

AFTERNOON SESSION.

20 do Caledonia Tunnel at $22¾.
30 do Caledonia Tunnel at 22.
30 do Seneca at $13.
20 do Burnside at $14.
5 do Burnside at 14½.
35 do Burnside at $15.
20 do Burnside at 16, r w.
20 do Real del Monte at $52½.
5 do Real del Monte at 53½.
5 do Real del Monte at 53.
20 do Real del Monte at 54.
5 do Real del Monte at 47.
20 do Real del Monte at 52.
10 do Real del Monte at 51¼.
60 do Real del Monte at 51.
10 do Real del Monte at 55, b 30.
10 do Real del Monte at 50¾.
70 do Real del Monte at 50.
10 do Real del Monte at 46, s 30.
40 do Real del Monte at 48¾.
40 do Real del Monte at 49.
10 do Bullion, G. H., at $75.
25 do North American at $124.
50 do Lucerne at $25, b 30.
10 do Lucerne at 23½.
40 do Lady Bryan at $54¼.
20 do De Soto at $40.
10 do De Soto at 42, b 30.
10 do Utah at $27.
10 do Burning Moscow at $83.
10 do Potosi at $1275 per foot.
20 do Dancy at $150 per foot.
48 do Ophir at $1620 per foot.
48 do Ophir at 1615 per foot.
4 do Gould & Curry at $4752 per foot.

PACIFIC BOARD OF BROKERS.

10 do De Soto at $37.
10 do De Soto at 39.
10 do Lady Bryan at $59, b 30, n d.
30 do Lady Bryan at 59, b 30,
10 do Lady Bryan at 58, b 30, n d.
10 do Lady Bryan at 55½.
10 do Lady Bryan at 58, b 30.
15 do Lady Bryan at 54½, r w.
10 do Lady Bryan at 54, b 3.
10 do Lady Bryan at 53¼.
5 do Lady Bryan at 54½.
5 do Lady Bryan at 54¼.
20 do Lucerne at $23, b 30, n d.
20 do Burnside at $12.
100 do Burnside at 12½, b 30.
20 do Burnside at 11.
20 do Burnside at 12½, b 30.
20 do Burnside at 11½.
10 do Real del Monte at $64¼. 10 d.
5 do Real del Monte at 55, r w.
5 do Real del Monte at 55.
10 do Real del Monte at 57½, b 30
5 do Crockett at $19.
15 do La Providencia at $2.

STOCK EXCHANGE.

5 do Blue Lead at $65.
2 do Central No. 2 at $825.
2 co Central No. 2 at 850.
17 do Caledonia Tunnel at $20.
10 do Caledonia Tunnel at 19.
5 do Real del Monte at $57, b 30.
20 do Real del Monte at 58, b 30.
1 do Real del Monte at 59, b 30.
5 do Real del Monte at 59, b 30.
10 do Real del Monte at 55, b 30.
5 do Seneca at $16.
10 do Seneca at 15.
5 do Lady Bryan at $52.
10 do North Ophir at $3.
3 do Blue Ledge at $9½.
20 do Smoky Valley at $35.

S. F. Stock and Exchange Bd. sales....$274,545 00
Pacific Board of Brokers' sales..... 10,885 00
Stock Exchange sales..... 7,743 50

Total sales the day by all Boards,..... 293,473 50

Thursday, February 25.

S. F. STOCK AND EXCHANGE BOARD.

4 shares Gould & Curry at $4700 per foot, r w.
40 do Dancy at $175 per foot, b 30.
20 do Chollar at $310 per foot, b 30.
20 do Chollar at 300 per foot.
1 do Savage at $300 per foot.
5 do Coso at $7.
30 do North Potosi at $60.
17 do North Potosi at 60, s 30.
10 do Pride of the West at $85, s 30.
104 do Wide West at $60.
5 do Wide West at 20, s 60.
20 do Silver Hill at $12.
5 do Silver Hill at 11½.
11 do Crockett at at $18.
15 do Real del Monte at $46.
10 do Real del Monte at 47.
78 do Real del Monte at 48.
138 do Real del Monte at 49.
10 do Real del Monte at 48¾.
20 do Real del Monte at 52, b 30.
25 do Real del Monte at 49½.
15 do Real del Monte at 50, r w.
20 do Spanish, No. 2 at $20, b 30.
10 do Bullion, G. H., at $77½.
5 do Bullion, G. H., at 76.
10 do Bullion, G. H., at 75.
10 do Nevada, Justice Ground at $260.
8 do Nevada, Justice Ground at 230, s 3.
10 do North American at $121½.
57 do North American at 121.
40 do North American at 120.
20 do North American at 122.
10 do North American at 117½, s 30.
20 do North American at 120, s 3.
10 do North American at 125, b 30.
120 do Buckeye at $12.
50 do Buckeye at 13, b 30.
25 do Lucerne at $22.
100 do Lucerne at 25, b 30.
10 do Knickerbocker at $32½.
10 do Caledonia Tunnel at $22½.
20 do Caledonia Tunnel at 24, b 30.
10 do Lafayette, G. H., at $19.
10 do Lady Bryan at $54.
10 do De Soto at $40.
10 do De Soto at 39.

AFTERNOON SESSION.

40 do Chollar at $300 per foot, s 30.
20 do Chollar at 307½ per foot.
20 do Chollar at 220 per foot.
40 do Chollar at 300 per foot, s 30.
20 do Dancy at $185 per foot, b 30.
5 do Overman at $425.
2 do Overman at 420.
10 do North American at $129, b 30.
20 do North American at 124.
74 do North American at 125.
50 do Burnside at $16.
79 do Lucerne at $23, b 30.
4 do Lucerne at 23.
10 do Real del Monte at $50.
10 do Real del Monte at $51.
10 do Real del Monte at 52.
30 do Real del Monte at 52¼.
15 do Real del Monte at 53.
10 do Real del Monte at 54.
70 do Real del Monte at 55.
25 do Real del Monte at 59.
20 do Lady Bryan at $52½.
5 do Lady Bryan at 53.
5 do Petona at $12.
1 do Burning Moscow at $82½.
11 do North Potosi at $55, s 3.

PACIFIC BOARD OF BROKERS.

10 do Caledonia Tunnel at $21.
20 do Caledonia Tunnel at 24, b 30.
10 do Blue Ledge at $10.
5 do Reservoir at $15.
25 do De Soto at $39¼.
10 do De Soto at 40.
10 do De Soto at 42½.
10 do De Soto at 45, b 30.
35 do Harmon at $40.
15 do Harmon at 39¾.
30 do Harmon at 42.
20 do Harmon at 41.
10 do Lady Bryan at $54, r w.
20 do Lady Bryan at 56, b 30, n d.
10 do Lady Bryan at 54½.
10 do Real del Monte at $48.

STOCK EXCHANGE.

14 do Crockett Consolidated at $17.
10 do Gov. Nye at $5.
5 do Lady Bryan at $54.
5 do Caledonia Tunnel at $25, b 30.
10 do North Ophir at $2¼.
10 do North Ophir at $3.

S. F. Stock and Exchange Bd. sales $187,309 50
Sales by the Pacific Board of Brokers.. 11,599 00
Sales by the Stock Exchange..... 738 00

Total sales of the day, by all Boards 199,637 50

Friday, February, 26.

S.F. STOCK AND EXCHANGE BOARD.

24 shares Ophir at $1620 per foot.
1 do Savage at $2050 per foot.
120 do Dancy at $210 per foot.
15 do Real del Monte at $55.
10 do Real del Monte at 53, b 30.
15 do Real del Monte at 53.
10 do Real del Monte at 52.
15 do Real del Monte at 50, b 3.
105 do Lady Bryan at $51.
20 do Lady Bryan at 51½, r w.
10 do Lady Bryan at 49, s 30.
10 do Lady Bryan at 48, s 30.
10 do North American at $135.
35 do North American at 132.
23 do North American at 131.
10 do North American at 130.
10 do North American at 125, b 30.
17 do North American at 130, s 30.
10 do North American at 137½, b 30.
10 do North American at 132, r w.
38 do Jefferson, R. R., at $10.
10 do Buckeye at $14.
5 do Buckeye at 16½.
20 do Lafayette, G. H., at $18.
6 do Baltimore American at $46.
10 do Utah at $23.
5 do Pride of the West at $85.
10 do Burning Moscow at $82.
10 do Burning Moscow at 87, b 30.
10 do Bullion, G. H., at $76.
15 do Charles Cany at $15.
15 do Charles Cany at 17½, b 30.
25 do Baltic at $170.
11 do Baltic at 178, b 30.

AFTERNOON SESSION.

18 do North American at $134.
15 do North American at 135.
30 do North American at 140, b 10.
20 do North American at 136.
30 do North American at 134, s 30.
10 do North American at 135, s 30.
10 do North American at 137½.
10 do North American at 137½, r w.
10 do North American at 145, b 30.
40 do North American at 140, b 5.
10 do North American at 136, s 30.
10 do North American at 139.
20 do North American at 138.
3 do Bullion at at $75.
45 do Real del Monte at $50.
30 do Real del Monte at 51.
35 do Caledonia Tunnel at $16.
10 do Burnside at $16.
20 do Lady Bryan at $50.
15 do Pride of the West at $85.
5 do Dancy at $215.
15 do Dancy at 220.
10 do Baltic at $170.
10 do Baltic at 178, b 30.
10 do Baltic at 178, s 35.
30 do Lafayette at $18.
60 do Lafayette at 19.
10 do Utah at $22½.
10 do Wide West at $24.

PACIFIC BOARD OF BROKERS.

65 do Burnside at $15.
10 do Burnside, at 16 b 30, n d.
4 do Gould & Curry at $4700 per foot.
10 do Lady Bryan at $52.
60 do Lady Bryan at 53, b 30, n d.
40 do Lady Bryan at 53, b 30.
5 do Lady Bryan at 51.
5 do Bullion at $80, b 30.
45 do Real del Monte at $51.
10 do Real del Monte at 47½, s 30.
5 do Real del Monte at 51½.
30 do Real del Monte at 55, b 30, n d.
10 do Real del Monte at 50, s 8.
15 do Real del Monte at 55, b 30.
10 do Real del Monte at 50.
22 do Charles Cany at $16.
10 do Charles Cany at 17, b 30.
5 do San Carlos at $16.
10 do De Soto at $40, b 30.

STOCK EXCHANGE.

25 do Ruby, R. R., at $17.
5 do Burning Moscow at $87½.
3 do Burning Moscow at 88.
15 do Real del Monte at $52½.
5 do Real del Monte at 53.
7 do Real del Monte at 53
10 do Real del Monte at 59, b 30.
50 do Metropolitan, O. R., at $8.
50 do Metropolitan, O. R., at 7.
25 do Adriatic at $9.
10 do Caledonia Tunnel at $23, b 30.
10 do Lafayette, G. H., at $15.
10 do Lafayette, G. H., at 17.

S. F. Stock and Exchange Bd. sales....$160,006 00
Sales by the Pacific Board of Brokers. 33,353 25
Sales by the Stock Exchange 4,755 00

Total sales of the day, by all Boards,. 138,114 25

Total sales of the week, by all Boards $989,494 25

Legal Tender Notes.

San Francisco, Friday February 26, 65¼ per cent.

Gold in New York.

Tuesday Feb. 23 ..... 159.
Wednesday, Feb. 24..... 157.
Friday, Feb. 26..... 157¾.

An Ingenious Piece of Mechanism, in the clock line, has been on exhibition during the past week in the shop window of A. Dubois, Jeweller, on Montgomery street, in this city. It is quite a novelty, and has attracted considerable attention. It is the invention of Mr. Otto Weidero. The clock is in the form of an ordinary mantle timepiece. Its peculiarity consists in the manner in which the motion is communicated to the works of the clock. Instead of the ordinary pendulum, a beam of polished brass is suspended, by its center, over the clock and works, with an oscillating motion, similar to a steam engine. It is connected on the one side of the center, to the spring which imparts motion to the machinery, while the connection from the opposite side is with the clock movements. The construction of time pieces, by this arrangement, is more simple than that by the pendulum—two wheels being dispensed with. Mr. W. has already made applications for a patent.

The Press in Washoe.—Over two hundred subscribers, in Virginia City and Gold Hill, have added their names to our subscription list during the past two weeks.

An unusually severe Earthquake was experienced in this city on Friday morning.

The Law for Publishing Legal Mining Notices.

An utterly erroneous opinion having been engendered in the minds of some (through misrepresentations and interested motives of others), that the laws of this State technically require the publication of mining notices to be be made in a DAILY paper, we take occasion to quote the following positive passage concerning the publication of mining notices, from the latest statutes passed by our Legislature on the subject, March 5th, 1861, which has not since been altered or amended:—

"Notice of each such call, or assessment, shall be given to the respective stockholders personally, or shall be published once a week for at least four weeks in some newspaper published at the point designated as the principal place of business of the corporation, and also in some newspaper published nearest to the point where said mining operations are being carried on. If, after such notice has been given, any stockholder shall make default in the payment of such call, or assessment, as to the shares of stock held by him, so many of such shares may be sold as will be necessary for the payment of the call, or assessment, on the shares held by him. The sale of said shares shall be made as prescribed in the by-laws of the company; *provided*, that no sale shall be made except at public auction to the highest bidder, after a published notice of thirty days, PUBLISHED AS ABOVE DIRECTED; and that at such sale the person who will agree to pay the call, or assessment, so due, together with the expense of advertisement and the other expenses of the sale for the smallest number of whole shares, shall be deemed the highest bidder."—[Passed March 5th, 1861—Statt. 1861, p. 14.

The above is indeed plain, and we hold ourselves responsible for the assertion that a weekly issue of a mining notice is as valid as that of a daily. By publication in the MINING AND SCIENTIFIC PRESS, a wide circulation is given to notices, particularly among miners and shareholders in this city and throughout the State and Nevada Territory. A weekly publication is also secured at a material saving in cost to shareholders.

Give the Name of the District.

We are requested to call the attention of Secretaries of Mining Companies to the importance of inserting in their advertisements, of whatever character, the name of the district or locality. Considerable trouble arises from this neglect, as there are Companies bearing the same name, although situated in different localities. Attention to this matter will not only be a benefit to others interested in Mining Companies, but also to the Secretaries themselves.

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. THE MINING AND SCIENTIFIC PRESS PATENT AGENCY has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

To the Stockholders of the Real del Monte Consolidated Gold and Silver Mining Company.

The undersigned, who were appointed a Committee at the meeting of the stockholders on Friday night, have met and determined upon the following measures for the present:

1st. The appointment of a first class book-keeper to examine the books and accounts of the corporation, and report upon its condition.

2d. The appointment of two gentlemen of ability, one a superior mineralogist, and the other a skillful mining engineer, to proceed together and visit the mine, and ascertain and report accurately upon its condition and prospects.

In order to carry out the objects of the stockholders upon the plan adopted by the Committee, a fund will be required of about twenty-five hundred dollars, which will be a tax of about one dollar per share upon the number of shares represented at the meeting of stockholders. Mr. James J. Robbins has consented to act as Treasurer, and the stockholders are requested to pay their contributions of one dollar per share at his office, No. 609 Clay street.

Unless this is promptly attended to, the important inquiry placed in our hands will fall to the ground.

We have also determined to warn the public against buying or dealing in any of the promisory notes or other evidences of indebtedness issued by apparent authority of the Corporation, as we are advised that the debt created is illegal, and the notes will consequently be void in the hands of any person, however innocent of their origin.

JAMES J. ROBBINS,
WM. BUCKLEY,
ALEXR. WARFIELD,
S. HEYDENFELDT.

9v8-tf

Picayune Gold, Silver and Copper Mining Company, Bear Gulch, Calaveras Co.—At a meeting of the Board of Trustees of the above Company, on the 17th day of February, 1864, an assessment of six cents per share on each and every share of the Capital stock of the said Company was levied, payable on or before the 22d, day of March, 1864. And Notice is also hereby given that the first annual meeting of the Stockholders of the said Company will be held on Tuesday the 22d day of March 1864, at the office of the Company at Copperopolis, for the purpose of electing officers for the ensuing year, for the adoption of By-laws, and for the transaction of such other business as may come to its notice. All Stockholders are respectfully requested to attend.

By order of the Board of Trustees,

L. HONIGSBERGER, Sec'y.

Copperopolis, Feb. 17th, '64. 9v8-4t

Imperatrice Silver Mining Company, Santa Fe District, Lander county, Nevada Territory. Office 305 Montgomery street, San Francisco, Feb. 24, 1864.—Notice is hereby given that at a meeting of the Board of Trustees, held this day, an assessment (No 2) of fifty cents per share was levied on each and every share of the Imperatrice Silver Mining Company, payable immediately, in gold coin, to the Secretary, at the Company's office. By order of the Board of Trustees. (9v8-4t.) J. S. LUTY, Soc'y.

Santa Maria Silver Mining Company, Santa Fe District, Lander county, Nevada Territory. Office 305, Montgomery street, San Francisco, Feb. 23, 1864.—Notice is hereby given that at a meeting of the Board of Trustees, held this day, an assessment (No. 2) of fifty cents per share was levied on each and every share of the capital stock of the above company, payable immediately, in gold coin, to the Secretary, at his office. By order of the Board of Trustees. (9v8-4t.) J. S. LUTY, Sec'y.

Information is Wanted at this Office, of the place of business of the following named Companies:—

Circulo Cordo Mining Company; H. Alder, President.
Bold Rover, Gold and Silver Mining Company.

San Francisco Stock and Exchange Board.—Prices Bid and Asked.

				Saturday.		Monday.		Tuesday.		Wednesday.		Thursday.		Friday.	
WASHOE STOCKS.	FEET.	SHARES.	VAL.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.
Ophir	1,400	16,800	300	1,585	—	—	—	1,605	1,610	1,575	1,650	1,606	1,650	1,615	1,650
Gould & Curry	1,200	4,800	500	4,750	4,775	—	—	4,725	4,775	4,750	4,775	4,675	4,700	4,600	4,700
Savage	800	800	2,000	3,030	3,100	—	—	3,040	3,100	3,010	3,050	3,000	3,100	3,950	3,000
Chollar	1,400	5,600	800	250	—	—	—	260	285	252½	265	30½	310	310	315
Potosi	1,400	2,800	500	1,300	1,400	—	—	1,275	1,475	1,225	1,300	1,200	1,275	1,100	1,250
Hale & Norcross	400	800	500	—	800	—	—	—	800	—	800	550	750	600	750
Sierra Nevada	3,000	3,000	500	76	100	—	—	86	92½	87	90	87	90	87	90
Daney	2,000	800	60	125	128	—	—	130	135	142¼	145	170	175	205	210
Burning Moscow	4,100	4,100	500	83	85	—	—	80	95	83	85	80	83	82	84
North Potosi	2,000	2,000	250	51	55	—	—	61	62	61	62½	57	60	—	55
Charles Cuny	1,800	1,800	30	11¾	12	—	—	—	16	11	14	—	—	14	15
Iowa	1,200	1,200	1,000	—	—	—	—	—	60	—	—	25	47½	—	—
El Dorado	1,600	1,600	500	20	52½	—	—	25	47½	25	47½	—	—	25	50
Norton	1,600	1,600	50	—	9	—	—	—	10	—	10	—	—	—	8
Burnside	2,800	2,800	500	12½	15	—	—	13	14	11	12	12½	15	—	15½
Adriatic	2,700	2,700	100	8	10	—	—	9	10	8½	10	8½	9¾	—	—
Pride of the West	1,400	1,400	100	82½	90	—	—	80	92½	80	90	80	87½	82½	85
Imperial	184	4,000	500	165	170	—	—	160	170	162½	165	168	170	162½	170
Crown Point	600	1,200	100	700	900	—	—	—	—	—	—	—	—	—	—
Manhattan	—	—	—	—	—	—	—	—	—	—	7	—	—	—	—
Seneca	—	—	—	16	18	—	—	15	18	—	20	—	20	10	16
Mt. Davidson tun'l.	1,000	1,000	200	2	2¼	—	—	2	2¾	—	—	2	2¾	2	2¾
Hudson	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6
Bajazet & G. Era.	4,000	4,000	300	33	90	—	—	—	—	30	90	30	90	30	—
Cedar Hill tunnel	—	1,000	100	—	1½	—	—	—	2	—	2	—	2	—	2
Gold Hill Qu'tz Mill	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ESMERALDA.															
Wide West	1,400	1,400	2,600	23	27	—	—	21	27½	15	25	20	22	20	22
Antelope	1,200	1,200	500	200	224	—	—	207	210	—	—	205	210	190	230
Esmeralda	1,600	1,600	1,000	—	—	—	—	7	14	—	—	—	—	8	—
Real del Monte	4,400	4,400	400	76	77	—	—	70	71	52¼	55	48¼	49	50	50
Utah	1,600	1,600	250	—	27	—	—	26	30	27	28	22½	27	23	26
Silver Hill	3,000	3,000	500	—	13	—	—	10	12	—	—	11	12	—	—
Nevada	600	1,200	250	—	—	—	—	1	6	—	—	—	7	—	—
Falls of Clyde	6,000	6,000	100	—	2	—	—	—	5	—	—	—	—	—	2
Bamboo	600	600	500	—	70	—	—	—	—	—	55	—	—	—	50
Crockett	—	—	—	14	19½	—	—	18	19½	15	20	19	20	—	20
Federal Hope	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Jenny Lind	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
coso.															
Josephine	9,600	4,800	2,500	—	1½	—	—	—	2	—	—	—	1½	—	3
Willow Springs	2,700	2,700	100	—	3	—	—	—	3	—	3	—	3	—	—
Coso	2,800	3,500	600	7	9	—	—	—	—	7	8	—	7	5¼	6
COPPER.															
Napoleon	2,700	2,700	600	—	60	—	—	45	55	40	65	45	65	45	60
Josephine	—	—	—	—	10	—	—	—	—	5	6	—	—	—	—
CALIFORNIA.															
Laurel Hill	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rhodes Diggings	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fellowes	2,500	2,500	100	—	—	—	—	10	20	19	25	21	—	—	15
Maxwell	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rock River	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Eureka	—	—	—	—	—	—	—	—	35	—	—	—	35	—	—
HUMBOLDT STOCKS.															
De Soto	1,980	1,980	100	25	—	—	—	37½	45	37½	40	39	40	35	40
Great Basin	—	—	—	—	2	—	—	—	2	—	2	—	1½	—	—

Enterprise Copper Mining Company.—Office 645 Clay Street, San Francisco, Feb. 13th, 1864.—Notice is hereby given, that there will be sold at the Office of the Enterprise Copper Mining Company, on Saturday March 19th, 1861, at 10 o'clock A. M. so many shares of the Capital Stock of said Company as will be necessary to pay all assessments due and delinquent, standing in the names of the following parties:

NAMES.	NO. SHARES.	AM'T. DUE.
Abell & Evans	200	$ 52
A. Bateman	125	32 50
Belcher & Schwarz	34	8 84
M. Berkowitz	50	4
John Cochran	25	14
J. M. Camon	25	14
J. P. Dameron	100	46
Wm. Davis	25	6 50
Thos. Donahue	15	8 40
James Daley	10	2 60
D. Risner	133	21 28
Wm. Harris	400	204
J. Krone	133	31 58
J. E. Kincaid	25	6 50
T. S. Levy	2000	475
V. C. Putnam	200	52
P. Robinson	200	52
E. F. White	200	52

By order of the Board of Trustees. M. G. ELMORE, Sec'y.

San Francisco, Feb. 12th, 1864. 7v3-4t

McDONALD'S OYSTERS.

AT THE OLD STAND, NEW WORLD MARKET, CORNER CLAY and Leidesdorff Streets. The whole front of the Old Market has been rebuilt and rejuvenated, and fitted up in fine Style, with private rooms for ladies, where they can procure the best of refreshments, at all hours—day or night. Parties of Gentlemen and Ladies can be supplied with the best of everything the market affords.

The best of MUTTON CHOPS and PORTER HOUSE STEAKS always on hand. Hot tea and Coffee at all hours. 9v8-m

A. J. Shipley,

Mining Stock, Loan & Money Broker.

Particular attention paid to Washoe, Esmeralda, and all other classes of Mining Stocks. Collections promptly attended to. Money to Loan on Stocks.

Office, Lyceum Building, Room No. 102, Entrance on Washington Street, above Montgomery, San Francisco. 9v8-q

STOCK EXCHANGE.

Mining Stocks to be Advertised and

PLACED ON STOCK LIST, MUST BE HANDED INTO

OFFICE NO. 2, STOCK EXCHANGE,

Before 5 o'clock P. M. (9v8-tf) M. G. ELMORE, Sec'y.

Pacific Mail Steamship Company.

THE FOLLOWING STEAMSHIPS WILL BE DESPATCHED FROM SAN FRANCISCO IN THE MONTH OF MARCH, 1864.

March, 3—GOLDEN CITY.....R. H. Pearson, Commander.
March, 12—ORIZABA.....E. S. Fransworth, Commander.
March, 23—CONSTITUTION,.....J. T. Watkins, Commander.

From Folsom street Wharf, at nine o'clock A. M., punctually,

FOR PANAMA.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company.

A. B. FORBES, Agent P. M. S. Co.,
jl Cor. Saeramento and Leidesdorff Sts., San Francisco

Emmett Copper Mining Company, Office No. 645 Clay Street, San Francisco, February 19th, 1864.—Notice is hereby given to the Stockholders of the Emmett Copper Mining Company, that an assessment, No. 4, of 37½ cents per share was this day levied on each and every share of the Capital Stock of said Company, payable immediately in United States Gold Coin, to the Secretary, or to L. HONIGSBERGER, Copperopolis.

8v8-4t M. G. ELMORE, Sec'y.

Secretaries of Mining Companies, Attention!

SAVE TIME AND LABOR!

Crocker's

STOCK & ASSESSMENT LEDGER

IS THE SIMPLEST, MOST ECONOMICAL AND USEFUL WORK EVER PUBLISHED.

Price, $10. Copyright Secured.

☞ Read the following testimonials to its excellence: ☜

We, the undersigned, hereby certify that we have used CROCKER'S STOCK AND ASSESSMENT LEDGER, and find it one of the most useful books ever published for the purpose designed. It is a great saving of labor, and by it Secretaries can keep the accounts of Mining Corporations in a neat and compact manner, and avoid many errors that inexperienced persons might make in stock and assessment accounts. We cheerfully recommend it to the Secretaries of Mining Corporations as a great improvement on the old system.

D. W. PARKHURST, Secretary of 11 Companies, Aurora.
J. R. McFARLAN, Secretary Pyramid Company, Sierra county.
J. G. LIBBEY, Secretary Companies, Virginia, N. T.
WM. BREMMER, Secretary of three Companies, Virginia, N. T.
C. C. WARNER, Secretary Lassell Company, Virginia, N. T.
JOSEPH PETTIGREW, Secretary six Companies, Aurora.
JAMES SWEENEY, Secretary Kough & Ready Co.; Mich. Bluff.
F. A. HORNBLOWER, Secretary Mountain Quartz Company.
CEO. J. NEWMAN, Secretary four Companies, Monitor.
R. F. BARTON, Secretary two Companies, Virginia, N. T.
WM. E. HALE, Secretary eleven Companies, Gold Hill, N. T.
R. G. TERRY, Secretary three Companies Saeramento.
JULIUS JACOBS, Secretary two Companies, San Francisco.
C. M. ROALS, Secretary Bonesteel Company, Woodbridge.
HENRY HOEBER, Secretary two Companies, Woodbridge.
CHAS. GREIVES, Secretary Tule Co., Woodbridge.
DANIEL KELLY, Secretary Hutchens Co., Woodbridge.
E. C. LOTHROP, Secretary two companies, Marysville.
CHAS. M. GORHAM, Secretary Washington Company Marysville.
A. R. MESERVE, Secretary Garden Company, Viola.
AUG. WEIHE, Secretary nine Companies, Stockton.
ORLANDO JENNINGS, Secretary three Companies, Austin, N. T.
A. T. ARROWSMITH, Secretary Hank's Ravine Co., Folsom.
S. M. SEELY, Secretary three Companies, Folsom.
J. R. CLAYES, Sec. Hank's Ravine Company, (No. 2) Folsom.
ED. BURROWS, Secretary German Ridge Company, Murphys.
JAS. STOBIE, Secretary Murphys Company, Murphys.

It is the BOOK OF BOOKS for Mining Companies. In fact I pronounce it without equal.

W. A. TWILL, Sec'y Wild Rose Co., Spenceville.

Having examined your "Stock and Assessment Ledger," I take pleasure in recommending it to all Secretaries of Mining Corporations. J. HEACOCK, Sec'y Well Copper Co., Spenceville.

It is one of the most concise, appropriate and desirable books for Mining Corporations ever published.

GEO. C. BURNETT, Sec'y sixteen Co's, Gold Hill, N. T.

The Ledger can be adapted to Companies DECLARING DIVIDENDS, with a very slight change, and such will be got up for those who desire them. Copies of the work sent by mail, postage paid, on receipt of $10.

SEND FOR SPECIMEN SHEETS.

The Book is bound in Three Styles: Half Morocco, muslin sides, $16; Full bound, sheep, $14; Full bound, Russian bands, $17 50.

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IMITATION LITHOGRAPH CERTIFICATES, AND COMPLETE SETS OF CORPORATION BOOKS

Got up in Superior Style, together with EVERY DESCRIPTION OF PRINTING, at the shortest notice and VERY LOW RATES. Specimens sent if desired. Address H. S. CROCKER & CO.,
Book and Job Printers, 107 J street, Saeramento. 8v8-tf

Secretaries' MINING DIRECTORY.

The Publishers of the MINING AND SCIENTIFIC PRESS will soon issue a new Edition of the MINING DIRECTORY, containing the names, as far as possible, of all Mining Companies, the location of their lodes, Secretaries' names and the Offices of such as have their principal place of business in San Francisco.

☞ Secretaries of newly incorporated companies, or others who have not their names on our old list, will please hand in a written statement of the names of their companies, location of claims, place of business, etc., immediately.

DEWEY & CO., Publishers and Patent Solicitors, 56 & 57 Government House, Corner of Sansome & Washington streets, San Francisco. 9v8-tf

"CHIPPINGS."

The citizens of Grass Valley, Nevada county, are erecting a new building for assemblies and theatrical purposes. It is to cost $25,000. When completed it will form the most costly and best theatrical structure in the mountains.

The tooth of a harrow, in a field near Detroit, caused a bright mark; the fortunate driver stopped, looked, and found a piece of copper weighing 357 pounds, and nearly pure.

Ice has been taken from a lake near Washoe City this winter two feet thick. A thousand tons of it have been put up for the supply of Virginia City next summer.

West Point is full again. It now contains 560 cadets, under the instruction of 25 commissioned officers.

The church property in San Francisco is set down as follows: The valuation of the Protestant churches at $282,415; the Roman Catholic churches at $380,000; the Jewish at $35,000.

Not a single steamer under the American flag now sails between the United States and Europe. There are about fifty under foreign flags. English "neutrality" has done its perfect work.

A sand fort of great strength is believed to have been erected within the ruins of Sumter.

A marine fire department is suggested in New York, to sink in the stream any vessel that may be in danger of conflagration.

The costume of the Spanish ladies has not changed for two hundred years.

The masts of a new French ironclad, lately launched near Tuolon, are of a single piece each. The timber was obtained from California.

"Courage" is the name of a mining company whose office is at Marysville. It is a good name for such a company. That and money is about all they need.

Mayor Gunther, of New York city, says in his message that Central Park has cost the city, up to January 1st, 1864, $7,372,426, but it has increased the taxable valuation of three wards adjoining $27,000,000 from 1856 to 1863.

It was recently stated in the House of Representatives that the Post Office Department is now self-sustaining, for the first time in fifteen years.

Italy don't allow her army officers to get married. Twelve hundred of them have transgressed, and are to be court-martialed.

"What is Eternity?"—The following beautiful answer by a pupil at the deaf and dumb school at Paris is a conception scarcely to be equaled: "The lifetime of the Almighty!"

The light of my torch is none the less for lighting my neighbors' torch by it.

There is no truth in the statement that the wife of Stephen A. Douglas is engaged as a clerk in the Treasury Department. Mrs. Douglas is living with her mother, in Washington, in close retirement.

The accumulation of guns in the Springfield (Mass.) arsenal, now amounts to 133,000. The total is increased daily by about 900 pieces.

A Sorgo Sugar Convention was reeently held at Columbus, Ohio, at which the opinion prevailed that sorgo culture would soon rank among the important interests of the country; that its permanency will not depend upon the question of peace or war with the South, but that the growth of sorgo would soon prove a most active competitor for supremacy with the northern cane.

Germans of this State are organizing to assist the Schleswig-Holsteiners; Polanders are organizing to assist Polaud; Irishmen are organizing to assist Ireland; Italians have organized to assist Italy; and Southerners organize to assist the South.

A dispatch has been received from Mr. Couuess saying that the bill relating to United States Courts in California has passed both houses of Congress. It reorganizes the Courts here.

A charter election takes place at Virginia City on Monday, March 7th. Two tickets are in the field, and lively times are expected.

A miner was killed by a "cave" in the Sugar Loaf drift diggings, near Rough and Ready, on Friday of last week.

Greathouse, the liberated pirate, has gone to the north part of the State, where he formerly resided.

Remarkable Collision.—The large English steamship Scotia recently ran into a stone pier, on the English coast, completely destroying the pier, while the vessel escaped without injury!

Miscellaneous Advertisements.

MINERS' FOUNDRY
—AND—
MACHINE WORKS,
First street, between Howard and Folsom streets,
SAN FRANCISCO.

EVERY DESCRIPTION OF IRON AND BRASS MACHINERY, the **Best** and **Most Economical**, manufactured in the State of California, will be furnished with dispatch at the Miners' Foundry and Machine Works, as:

Steam Engines and Boilers, Flour, Saw and Quartz mill machinery, Mining Pumps, Amalgamators, Retorts, Etc., Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections, designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities will be afforded ample facilities, free of cost.

All parties desiring accurate and highly finished drawings and Superior Machinery, at most reasonable rates are cordially invited to call before contracting elsewhere.

HOWLAND, ANGEL & KINO.
San Francisco, February 23, 1863. tf.

PALMER, HANSCOM & CO.,
GOLDEN STATE IRON WORKS,
No. 19, First Street, San Francisco,
Furnish Castings and Machinery of all kinds,
Also Genuine White Iron Shoes and Dies.
PALMER, HANSCOM & CO.

To Quartz Miners.

KNOX'S IMPROVED AMALGAMATING PAN
WITH PALMER'S PATENT STEAM CHEST.

THE ABOVE COMBINATION SECURES THE MOST COMPLETE amalgamation of the precious metals of any process now known. By it steam is introduced in the most effective and economical manner, while it is peculiarly adapted to the catching of floating gold and silver, known to be otherwise lost. Made exclusively by
PALMER, HANSCOM & CO.,
Golden State Iron Works,
Nos. 19 and 21 First Street, San Francisco.

The public are informed that Letters Patent have been granted the undersigned upon Steam Chest False Bottoms for the inside of Amalgamating Pans or Tubs, and are cautioned against making, buying, using or selling the same without his consent.
tf W. A. PALMER.

Sacramento Iron Works.

I STREET, BETWEEN FIRST AND SECOND STREETS, SACRAMENTO.

GOSS & LOMBARD.....Proprietors.

MANUFACTURERS OF STEAM ENGINES, MACHINERY FOR Saw, Flour and Quartz Mills, Horse Powers, Windmills, Car Wheels, Suction and Force Pumps, Cast Iron Rifles and all kinds of House Castings, at reduced prices. Gas pipe of all sizes, and all kinds of Brass and Iron Steam Fittings, with Hemp and Rubber Packing, constantly on hand. Wrought Iron Work and all kinds of Brass Castings done to order.

We are the Sole Agents in this State for the celebrated Worthington Pump, an assortment of which we keep constantly on hand. We have just received from the East a fine assortment of Cast Iron Fence Patterns, suitable for yards, balconies, cemetery lots or graves. We shall continue to do our work in the best manner and at the LOWEST CASH PRICES, hoping thereby to receive a just share of public patronage. 1-3m

JOHN P. GALLAGHER.....JOSEPH B. WEED.
GALLAGHER & WEED,
BRASS AND BELL FOUNDRY
And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING, DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, MADE to order. Engineers' Gouges made and hung in the best manner. Bank, Vault, Store and Prison Locks, also brass Padlocks and Shop Locks of various patterns, on hand and made to order.
☞ Particular attention given to casting Rudder Braces and Ship Work in general.
☞ All Jobs promptly attended to.—Prices moderate. ☜
No. 125 First Street, opposite Minna, next door to Pacific Foundry.
[Removed from Oregon street, between Front and Davis.]
j21f

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LEWIS COFFEY & RISDON,
Steam Boiler & Sheet Iron Works.

THE ONLY EXCLUSIVELY BOILER MAKING ESTABLISHment on the Pacific Coast, owned and conducted by Practical Boiler Makers. All orders for New Work, the repairing of Old Work, executed as ordered, and warranted as to quality.

Old Stand, corner Bush and Market Streets. Opposite Oriental Hotel, San Francisco, Cal.

Vulcan Iron Works Company.
P. Torquet,.....Manager.
Steam Engine Builders and Boiler Makers,
Iron Founders and General Engineers,

PUMPING, HOISTING, MINING AND QUARTZ-CRUSHING Machinery. Shoes and Dies of the hardest iron. Russia Iron Punched Screens, Steamboat Machinery, Saw, Flour and Sugar Mills. High and Low Pressure Boilers of all styles. Jonval and other Turbine Water Wheels with latest improvements.
tf No. 187 & 139 First Street San Francisco.

PORTLAND BOILER WORKS.
MOYNIHAN & AITKEN,
BOILER MAKERS AND SHEET IRON WORKERS,

N. B. All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission, between Beal and Fremont Sts., San Francisco.
fy29-tf

WANTED,
Gold Quartz suitable for Cutting Jewelry.
By **FRONTIER & DEVIERCY.**
437 Pine Street, San Francisco.
au3ltf.

Must be seen to be Appreciated!

THE FLORENCE!
A GREAT IMPROVEMENT!
This Celebrated
NEW SEWING MACHINE
IS ACKNOWLEDGED TO BE
THE BEST IN THE WORLD!

IT MAKES FOUR DISTINCT STITCHES!
IT FEEDS THE WORK EITHER WAY!
WILL SEW OVER THE HEAVIEST SEAMS,
WITHOUT CHANGE OF TENSION!
IT SELDOM, IF EVER, DROPS A STITCH!
IT SEWS WITH SILK OR COTTON THREAD EQUALLY WELL!
IT RUNS LIGHTLY, SEWS RAPIDLY AND IS ALMOST NOISELESS!
IT DOES THE HEAVIEST OR FINEST WORK WITH EQUAL FACILITY!
IT MAKES A STICH ALIKE ON BOTH SIDES OF THE FABRIC, USING ONLY HALF THE QUANTITY OF THREAD NECESSARY FOR THE OLD FASHIONED CHAIN-STICH MACHINES!

WHILE IT POSSESSES ALL THE GOOD QUALITIES OF others, and has many advantages over any and all of them, the FLORENCE is sold at corresponding prices with other first-class Machines. We
WARRANT EVERY MACHINE
To be all that we claim for it, and will give a WRITTEN WARRANTY if required.

AGENTS WANTED in all the principal cities and towns on the Pacific coast.
Send for Circulars and samples of sewing.

DON'T BUY A SEWING MACHINE UNTIL
YOU HAVE
SEEN "THE FLORENCE!"

SAMUEL HILL, General Agent.
111 Montgomery street, between Bush and Sutter, San Francisco, California. j2-3m

A. S. HALLIDIE & CO.,
WIRE ROPE MANUFACTURERS.
Established 1857.
Office, No. 412 Clay street—Works, North Beach,
SAN FRANCISCO.

After seven years' use throughout the State of California and the Pacific Coast generally, we can confidently recommend Wire Rope for
HOISTING FROM DEEP MINES,
GUY ROPES FOR DERRICKS, &c.,
STANDING RIGGING FOR SHIPS,
FERRY ROPES FOR FERRIES,
SASH CORD FOR WINDOW SASHES,
ETC., ETC., ETC., ETC., ETC., ETC., ETC.
It being Cheaper, Stronger, Lighter and More Durable than any other kind of Rope, and not stretching or shrinking by atmospheric changes.

MINING COMPANIES, by using it for Hoisting Purposes, save 66 per cent. on their outlay for other ropes.

Wire Fencing Strand,
For fencing large parcels of land—permanently, economically and expeditiously. Manufactured in any length desired.
Pamphlets containing weight, strength and price, forwarded free application to the Manufacturers.

WIRE SUSPENSION BRIDGES AND AQUEDUCTS
We are prepared to erect, of any span and capacity, and take pleasure in referring those interested to the many structures of this kind built by us in California, Oregon and British Columbia, of span from 200 to 400 feet. 3-3m

WHEELER'S
Amalgamating and Separating Pans

IT IS ACKNOWLEDGED BY ALL WHO HAVE EXAMINED THE principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.

The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metal arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the triturating, this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.

Where these Pans have been introduced and operated by the side of others on sands from the same vat, the Wheeler Pans have uniformly gained a large percentage of metals, over its competitors, as well as a still larger percentage in the amount of work performed.

***These Pans may be seen in daily operation at the Miners' Foundry, on First street, San Francisco, where all interested are invited to call and examine for themselves.
no16-tf ZENAS WHEELER.

To Quartz Miners.

ALL PERSONS INTERESTED IN MINING MACHINERY ARE invited to call at Donahue's Foundry and examine my improved Amalgamator. It is unquestionably superior to anything now known for amalgamating Silver and Gold. It works 1000 pounds at a time, and will amalgamate over three tons a day. By the motion of the revolving muller, the pulp is drawn through its centre and passes under it, between the grinding surfaces, to the circumference; from whence it passes again over the muller to the centre, through the holes and between the grinding surface to the circumference as before. Thus a constant circulation of the pulp is kept up, bringing the particles of ore again and again under the muller, and reducing the whole mass to an impalpable powder.

No quicksilver lies between the surfaces to be ground, but at the circumference and centre of the pan where the metal must pass through it as the pulp circulates.

A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S. Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.
sep21

To Druggists and all Prescribing for Neuralgic and Nervous Cases—Your attention is called particularly to the efficacy of WATTS' NERVOUS ANTIDOTE for the above. Feelings of humanity, independent of pecuniary considerations, would prompt you to recommend it in all cases of Neuralgic Pains, Face Ache, from defective teeth, and the General Wasting Away and Debility of the Nervous System. If you could have the assurance that this was what it is purported to be—THE GREAT RELIABLE TRANQUILIZER AND RESTORER OF THE SYSTEM. It has been repeatedly prescribed in cases of excessive drinking, on the verge of Delirium Tremens, and even while laboring under its distressing influence, with astonishing results. It contains no preparation of Opium or Valerian, and is never accompanied with the unpleasant sensation always experienced after taking successive doses of them. It is also the best Soothing Syrup in use. Patients have taken Watts' Nervous Antidote many months in succession, and experienced no unpleasant effect whatever—while the same continued use of many other popular remedies has completely shattered the system.

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N. B.—This line has been running stages for the last six years, and has never had an accident. Passengers can depend on their safety and comfort, as there are no persons in the employ of this line who are not stagemen. [6v8-1m] J. S. McCUE, Proprietor.

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These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machines now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

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Mining Notices.

Carson Silver Mining Company, (Monitor District, Office 622 Washington St., San Francisco.—Notice is hereby given, that in accordance with the laws of the State of California and an order made by the board of Trustees of the Carson Silver Mining Company, there will be sold at public auction at the Office of the company (by Jerome Rice & Co., Auctioneers) on Friday, March 11th, 1864, at 12 o'clock, (noon) of that day, so many shares of the the Capital Stock of said company, standing in the nnme of the following named Stock-holders as shall be sufficient to pay the following described assessments: No. 1, Twenty (20) cents per share, levied April 30th, 1863. No. 2, Fifty (50) cents per share, levied Nov., 30th, 1863; together with expenses of advertising and sale, unless said assessments are previously paid with accruing charges. To wit:

NAMES	SHARES	AMOUNT.
C. M. Gregory, No. 1, 200 ft; No. 2, 163 ft...		$121 50
H. K. Clapp,.....	125	87 50
J. L. Waite,.....	145	101 50
W. Brackett,.....	60	42
E. W. Brackett,.....	25	17 50
W. H. Knight,.....	25	12 50
L. Dessoworth.....	12	8
Wm. Davison,.....	20	10

7v8-4w' C. STEVENS, Sec'y.

Bankers Gold and Silver Mining Company, Gold Hill, Virginia District, N. T.—The Annnal Meeting of the Stockholders of the Bankers G. & S. M. Co., will be held at their office. No. 620 Washington street, San Francisco, on Tuesday, March 1st, 1864, for the purpose of electing Trustees for the ensning year and the transaction of such other business as may be necessary.

7v8-3t W. AUC'S. KNAPP, Sec'y.

El Dorado Consolidated Gold & Silver Mining Company, Devil's Oate District, Nevada Territory.—Office 113 California Street.—San Francisco, February 3d, 1864.—At a meeting of the Board of Trnstees, of the El Dorado Consolidated Gold & Silver Mining Company, held this day, an assessment of one dollar ($1) per share was levied upon each and every share of the Capital stock of said Company, payable Immediately, in United States Gold Coin, at the Office of the Company in San Francisco, or to H. F. Rica, at Carson City, Nevnda Territory. By order of the Board of Trustees.

February 4th, 1864. [7v8-4t] JNO. F. POPE, Sec'y.

Emmett Copper Mining Company, Office No. 645 Clay Street, San Francisco, February 6th, 1864.—Notice is hereby given to the Stockholders of the Emmett Copper Mining Company that an assessment, No. 3, of 25 cents per share was this day levied on each and every share of the Capital Stock of said Company, payable Immediately in United States Gold Coin, to the Secretary, or to L. Hoh IGSBERGER, Copperopolis.

7v8-4t M. G. ELMORE, Sec'y.

Cœsus Gold and Silver Mining Company, Turnback District, Tuolumne county, Cal.—At a meeting of the Board of Trustees of the Cœsus Gold and Silver Mining Company, held the 4th day of February, A.D. 1864, an assessment of ten cents per share on each and every share of the capital stock of said Company, was duly levied, payable immediately, in U. S gold coin, to the Secretary, at the office of the Company, south-east corner Howard and Second streets, San Francisco. By order of the Board of Trustees.

San Francisco, Feb. 5, 1864. [6v8-5t] J. F. HARRIS, Sec'y.

Bay State Gold and Silver Mining Company, Turnback District, Tuolumne county, Cal.—Notice is hereby given, that the annual meeting of the stock-holders of the Bay State Gold and Silver Mining Company, for the election of officers for the ensuing year, will be held on the first Monday in March, at the office of the Company, south-east corner Second and Howard streets, San Francisco. By order of the Board of Trustees.

San Francisco, Feb. 5, 1864. [6v8-5t] J. F. HARRIS, Sec'y.

Crockett Copper Mining Company, Copperopolis, Cal.—Notice is hereby given, that at a meeting of the Trustees of the Crockett Copper Mining Company, held January 2d, 1864, an assessment of one ($1) dollar upon each and every share of the capital Stock of the Company was levied, payable immediately, in gold coin, to the undersigned, or to J. M. Pike, at Copperopolis; being assessment No. 2. On the 1st inst. the Trustees als o levied another assessment, being No. 3, of one ($1) dollar per share upon each and every share of the capital stock of the Crockett Copper Mining Co., payable the same as assessment No. 2. Persons having interests in the Company are requested to come forward, prove title, and receive their certificates of stock. ISAAC HECHT, Sec'y,

No. 417 and 419 Sacramento street.

San Francisco, February 5th, 1864. 6v8-5t

Office of the Montezuma Gold and Silver Mining Company, No. 62 Government House, corner of Washington and Sansome streets, San Francisco. Feb. 5th, 1864.—Notice is hereby given, that a sufficient number of shares of the capital stock of the Montezuma Gold and Silver Mining Company, standing in the nnme of the following person, will be sold at public auction, at the sales room of Jerome Rice & Co., No. 327 Montgomery street, on WEDNESDAY, March 9th, 1864, at 11 o'clock A. M., to pay an assessment of 12½ cents per share, levied April 27th, 1863, together with expenses of advertising and sale, unless said assessment is previously paid with accruing charges—viz: Hugh McCormick; 247 shares; amount due; $30.87½. By order of the Board of Trustees.

6v8-5t O. A. CRANE, Secretary.

Triunfo Gold and Silver Mining Company.—At a Meeting of the Trustees of the Triunfo Gold & Silver Mining Co. held January 23d 1864, an assessment of One ($1) dollar per share was levied on each and every share of the assessable stock of the Company, payable immediately to the Secretary, at the Office of the Company, No. 1 Government House, in United States Gold Coin.

5v8-5t HENRY S. BROOKS, Sec'y.

Black Swan Gold and Silver Mining Company, Reese River District, Lander county, N. T.—Notice is hereby given, that the regular annual meeting of the stockholders of the Black Swan Gold and Silver Mining Company will be held on the first day of March next, at 4 o'clock P. M., at the Company's office, No. 305 Montgomery street, San Francisco. By order of the Trustees. J. S. LUTY, Secretary.

San Francisco, Jan. 27, 1864. 5v8-5t

It is Impossible for editors to know all the merits and demerits of their correspondence, consequently the reader must not receive the opinions of our contributors as our own. Intelligent discussion is invited upon all sides, and the evidence of any error upon our part will be received in friendship, and treated with respect.

MINING AND SCIENTIFIC PRESS.

List of Contents for January.

No. 1 of Volume VIII.—January 2, 1864.—Masteden Thigh Bone—illustrated; Mining Review for 1863; Practical Education; Legislative Aid; Taxing the Mines; Gold Mines of New Zealand; Mining and Metallurgical Journals; A Trip to the Mines-Mariposa county; Silver Mountain District; The Lady Brynn Mine; Miscellaneous Items; Knight's Ferry—by our Traveling Correspondent; Hints to Prospectors; Letter from Lower California; Stock Remarks; Summary of Mining News—Gleaned from Various Sources; The Mining Interest; Mining Associations; Keystone Concentrating Works; Report of Stock Sales for the Week—Prices Bid and Asked; List of New Incorporations; Recent Patents; California Inventions; Mining Companies, Assayers', Stock Dealers', Machinists', Foundrymen's, and other advertisements.

No. 2—Jan. 9.—Hunter's Grain Separator—a new Invention, Illustrated; "A little Learning" not "A Dangerous Thing;" Grimes House—Copper Mines, by Our Traveling Correspondent; Reese River Correspondence; Summary of Mining News—California, Washoe, Humboldt, Reese and Owen's River Items; Annual Report of the Gould & Curry Mining Company; Owen's River Letters; Copper Mining in Canada; Short Paragraphs; Industrial Facts; Annual Treasury Shipments; Encourage Home Industry; Beginning of the New Year; Home vs. Distant Mines; California Copper Smelting Works; California Academy of Natural Sciences; Mining Share Market; Our Enlargement; Record of Mining Incorporations; Patent Department; The State Library; About Marvelously Rich Mines; Copper, Its Price and Demand; Editorial Items; Stock Reports; etc.

No. 3—Jan. 16.—A Patent Stone-Breaker—with Illustrations; Extraordinary Mental Developments; Reese River Letters—Smoky Valley, White, Mucus Sanitary Remarks; Hints to Prospectors; Mining Summary—Placer county, Sierra, Yuba, Reese River, Humboldt, Washoe, Esmernida, Lower California and Colorado Items; Statistical Articles; New Patents; Lost Arts; Editorial Paragraphs; Mining Share Market; Ophir Co. vs Burning Moscow; Our Harbor Defences; New Incorporations; Stock Reports; Branch Mint Report; Petroleum as Fuel; Varieties; New Mining Notices and Industrial Advertisements.

No. 4—Jan. 23.—Indian Bar Copper Mines—Illustration of the Washington Mine; Correspondence—Chinese Camp and Jamestown; Reese River Letters; Summary of Mining News; Washoe Mining Stocks; A Durable Ink; The Metal Market; Roll of New Incorporations; The Opinions of Our Neighbors; Miscellaneous Information—Mechanical and Industrial Facts; Patent Department; A Mining School for California; The Mechanics' Institute and Fair; From Lower California; Magnificent Specimens; The Beauty of the Season; Silver Bricks; Mining Share Market; A Mining Advertiser, Editorial Paragraphs; Important Success; Mining Laws—a good suggestion; Stock Reports; Total Stock and Mining Transactions for the week; Chippings; New Mining Notices, etc.

No. 5—Jan. 30.—Rock Drilling Machine—with Illustrations; Human Fossils in California; Mechanism—Ancient and Modern; Coal Oil—"A Warranty that is Safe to Bet On;" Correspondence—Sonora, Tuolumne county; A Trip to the Mines—Mariposa county; Letter from Arizona; Mining Gossip—Edited by Frank Warddell; Letter from Humboldt; Importance to the California Miner of a Knowledge of Mineralogy; The Miners' Laboratory, containing a valuable article on Assaying Copper Ores; A Reese River Mansion; The "New Chemical Agent in Warfare; Copper Coating Boiler and other Iron Plates; Navigation of the Colorado; Mining Incorporations; Short Editorials; San Francisco Stock Sales; San Francisco Mining Share Market; Washoe Stock and Exchange Board; Mining Incorporations of 1863; etc.

The Mining and Scientific Press contains 16 pages in each No., and 417 in each volume; two volumes a year. Terms, in advance, 1 year $5; 6 mos. $3; 5 copies, 1 year, $20. For sale by all newsdealers. Liberal commisions allowed all who act as agents.

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Correspondence from competent writers is respectfully solicited upon all topics of interest to the general readers of the Press. Persons possessing a knowledge of new discoveries, curiosities, important improvements or developments, who have not the time or experience to write their observations elaborately, can send us the substance in a few words, and we will care for the rest. The real name of the author must be received, which will be kept confidential.

We have received No 1 of the enlarged Mining and Scientific Press—published by Dewey & Co., San Francisco. It is greatly improved, and gives promise of an excellent, able and reliable journal.—*Marysville Daily Appeal.*

Mr. A. T. Dewey, a journalist of experience, has become associated with Messrs. Ewer and Smith in the proprietorship and conduct of this paper. It inaugurated the new year by doubling its size and other improvements, and is now a first class journal for miners and mechanics, as well as for the general reader.—*Sacramento Daily Bee*

This journal comes to us this week with a new head and enlarged to the full size of the *Scientific American* published in New York—sixteen pages. Those who take an interest in mining, industry and art, should not fail to read the prospectus of the Press, which may be found in our advertising columns, and those who may desire to see copies, intending to subscribe, will have specimens sent free on application by letter to the office of publication.—*Mountain Messenger, La Porte.*

We have received the first number of the eighth volume of this interesting paper. It is now under the control of friend Dewey, and has been enlarged to sixteen pages. We commend it to miners, stock dealers, and others taking an interest in the development of the mineral lands of this State. It can be had for $5 a year, and if preserved will make two volumes of interesting matter, containing 416 pages each.—*Red Bluff Independent*

We find its pages filled with mining news and articles of interest to miners and scientific men. Persons interested in mines in this State, Nevada Territory, Arizona or Mexico, should certainly subscribe for the Press.—*Napa Reporter.*

It has been enlarged from eight to sixteen pages, and promises to be a valuable publication.—*Sierra Democrat.*

Is is full of the most valuable reading matter. Those at all interested in mining affairs should subscribe for it at once.—*Alameda Gazette.*

It is devoted to news, art, science and progress, and should receive a liberal support.—*Solano Press,*

The Mining and Scientific Press comes to us enlarged to double its old dimensions, and otherwise improved. The Press is the only journal on this coast devoted exclusively to mining and scientific matters, and should be read by miners everywhere. It is published weekly, at $5 per year.—*Oroville Union.*

CAUTION.

Notice is hereby given that the following mentioned Certificates of the stock of the Prima Denna Gold & Silver Mining Company were, on the 5th day of February 1864, sold at public Auction, according to Law, for non-payment of assessments due thereon, and will not be transfered on the books of the Company, viz:

NAMES.	No. CERT.	SHARES.
Olef Broner,.....	193	5
E. H. Coe,.....	135	25
Jas. Flanagan,.....	169	5
Henry J. Hyland,.....	158	5
Jas. G. Lambert,.....	39	5
H. McKinaly,.....	164	10
H. McKinaly,.....	165	10
H. McKinaly,.....	166	5
E. R. Potter,.....	35	5
A. S. Rogers,.....	116	10
W. L. Sparrow,.....	95	15
Frank Tolan,.....	132	10
O. F. Von Rhein,.....	157	5

7v8-2t H. B. CONGDON, sec'y.

Silver Butte Consolidated Silver Mining Company.— Office 528 Montgomery street, San Francisco. Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Silver Butte Consolidated Silver Mining Company, there will be sold at public auction, at the office of the Company, San Francisco, on SATURDAY, February 27th, at 11 o'clock A. M. of that day, to the highest bidder, for cash, in United States Gold coin, so many shares of the capital Stock of said Company, standing in the names of the following shareholders, as will be necessary to pay assessment Nos. 2 and 3, duly levied thereon, and now being due and unpaid, together with the expense of advertising and sale—to wit:

Name.	No. cert.	No. Ass't	Shares.	Amt.
Browning, John.....	137, 138, 139	3	25	$12 50
Benchamp, J. W.....	100, 239	2 and 3	20	20
Butman, H.....	152	3	2	1
Cross, J.....	191	3	25	12 50
Ebeling, P.....	131	3	1	50
Erskine, Geo. B.....	301	3	3	1 50
Fallon, M. M.....	111	3	1	50
French, B. F.....	178	3	5	2 50
Johnson, B. R.....	163	3	1	50
Johnson, O. H.....	54, 144, 146	2 and 3	26	26
Johnson, G. H.....	25, 56, 286, 240, 257, 258, 259	3	35	17 50
Keck, H.....	192 to 199 in., 201	2 and 3	125	125
Loomis, Riley.....	135, 354, 355, 356	3	26	13
Lord, T. B.....	371	3	64	32
Littlefield, J. D 84, 85, 88, 89, 214, 215		3	81	40 50
Mains, J. R.....	41, 42, 48, 49, 304	3	27	13 50
Merlam, E. D.....	404, 266	2 and 3	21	21
Manchester, A.....	100	2 and 3	6	6
Norcross, J. K.....		3	2	1
Osborn, W. F.....	349 350 361	3	23	11 50
Percival R.....	66, 91, 95, 98, 282	3	12	6
Sproul, J. B.....	211	3	5	2 50
Stratton, S.....	212, 339	3	20	10
Wood, Sarah.....	243, 352	3	6	3

By order of the Board of Trustees. M. G. ELMORE, Sec.

Mammoth Consolidated Gold & Silver Mining Co., Excelsior District, N. T.—Office 528 Montgomery St., San Francisco, Nov. 28, 1863, Notice is hereby given that there will be sold at Public Auction, at the office of the Company, in San Francisco, on Saturday January 9th., 1864 at 12 o'clock, M., of that day, to the highest bidder, for cash in U. S. gold coin, so many Shares of the Capital Stock of said Company standing in the names of the following shareholders as will be necessary to pay assessment No. 1., of ten (10) cents per share, duly levied thereon by the Board of Trustees on the 9th. of May, 1863; also assessment No. 2., of thirty (30) cents per share, duly levied thereon by the Board of Trustees on the 27th of June, 1863, together with all the expenses of advertising and sale, unless said assessments are previously paid to M. G. Elmore, Sec., San Francisco, or to W. H. Dalrymple, Financial Sec., Aurora.

Names	No. Cer't.,	No. Ass't.,	Shares,	Am't.
J B Best.....	74 343	1 2	300	115 00
G W Baily.....	344	1 2	200	80 00
J J Coddlagton....	358	1 2	56¼	22 50
D C Crooker.....	334	1 2	250	100 00
T A Cutter..	25 303 to 403 incl'	2	125	37 50
J R Dudleston..	27 28	1 2	50	20 00
WD Garland	437 442 / 450 451 / 508	2	275	82 50
D H Haskell...	65 to 69 incl'	1 2	50	20 00
James Jaques....	333	1 2	250	100 00
R P Johnson.....	443	2	100	30 00
J H Latcham	283 284 283 / to 291 incl'	2	60	16 93
E J Mathews.....	4	2	200	60 00
W Mason.....	92 462	2	13	3 90
John Patten	416 417	2	15	4 50
Geo Raymand.	126 to 131 incl' / 136 to 142 incl'	2	125	37 50
G H Rogers	143 to 151 incl'	2	200	60 00
J S Shultz.....	361 487	1 2	95	38 00
G D Myers.....	360	1 2	5	2 00
A J Severe....	170 to 189 incl'	2	200	60 00
N Steiner.....	118 to 124 incl'	1 2	100	40 00
H S Van Dine....	218 338	1 2	175	68 75
H Watson.....	263 to 267 incl'	2	25	7 50
J C Darragh....	268 to 274 incl,	2	50	15 00
J M Meredith...	77, 446, 447	2	100	25 00
J Hawkins...	73, 452, 450, / 455, 454	1 2	175	70 00
C E H Wheaton	570	1 2	25	10 00

By order of Board of Trustees.

M. G. ELMORE, Secretary.

The above sale is postponed until Saturday, January 30th, 1864 at the same place and hour. By order of the Board of Trustees

2 M. G. ELMORE, Secretary.

The above sale is postponed until Saturday, February 27th, 1864.

6v8-3t M. G. ELMORE, Secretary.

Brown's Bronchial Troches for Coughs and Colds.— A neglected Cough, Cold, an Irritated or Sore Throat if allowed to progress, results in serious Pulmonary Bronchial and Asthmatic Diseases oftentimes incurable. Brown's Bronchial Troches reach *directly* the affected parts, and give almost immediate relief. For Bronchitis, Asthma, Catarrh, and Consumptive Coughs the Troches are useful. Public Speakers and Singers should have the Troches to clear and strengthen the Voice. Military Officers and Soldiers who overtax the voice, and are exposed to sudden changes should use them. Obtain only the *genuine.* "Brown's Bronchial Troches" having proved their efficacy by a test of many years, are highly recommended and prescribed by Physicians and Surgeons in the Army, and have received testimonials from many eminent men. Sold by all Druggists and dealers in Medicine in the United States and most Foreign countries at 25 cts. per box.

Agents for California, Redington & Co., San Francisco. 5-1m

Back Numbers.—We have a limited number of past volumes of the Press on hand, which will be sold, neatly bound, at reasonable rates. A portion of the back numbers of the paper can be had by the single copy.

Mining and Scientific Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

VOLUME VIII. SAN FRANCISCO, SATURDAY, MARCH 5, 1864. NUMBER 10.

Contents:

No. 10—March 5.—Communication—"Pocket Veins;" Hints to Prospectors; Sierra District, Humboldt county—Description of a Representative Mine; Slang of the Stock Exchange; On the Loss of Gold Attending the Process of Amalgamation; Product of Petroleum; Wide West Mining Company; The Term Reese River; Mining Gossip; Washoe Stock Market; Mining News and Items; Our Mechanical Interests; Unwise Recommendation; Coal Creek Coal Company; Patent Department—McCauley's Steam Condenser, M. D. Garrard's Amalgamator, A California Invention, Etc.; A Mining School for San Francisco; A Formation of Black Oxide with a Supposed Decomposition of Nitre; The Drought and Gold Crop; San Diego Copper; Decidedly Arbitrary; Mining Share Market; New Incorporations; The Northern Gold Fields; Stock Market Reports; "Chippings;" Etc.

Communications.

[Written for the Mining and Scientific Press.]

POCKET VEINS.

Mr. Editor.—There have been so many conflicting opinions entertained by the public in relation to the character of the mines of Esmeralda District, and I have been so often asked for my opinion of them, that I have concluded to give it (for what it is worth) through your excellent "Press."

The system of veins in the Esmeralda District is so unlike any other on this coast that it has been quite a puzzle to the most expert miners and engineers of this country, and many eminent scientific men have been equally at fault when attempting to give the true character of the veins of this singular District.

The first conclusion arrived at by many experts, whose opinions were respectfully listened to by the public, was that the veins were mere surface formations, and that most of the mineral wealth of the District was contained in the boulders that covered the hills in abundance, asserting in fact there was little there *but boulders*.

But it was soon proven that these wiseacres were wide of the mark; for the miners began to dig into the veins and find rich ores—richer in many instances than any boulders found on the surface.

The public then begnn to have confidence in the mines—First one and then another would invest, until soon all caution was laid aside, and recklessness beeame the *rule*, instead of the exception to the mining enterprises of the District.

Gold, silver and copper is deposited in veins in a great variety of forms, and in combination with a great variety of mineral substances. These minerals are also found to have accumulated, in some parts of veins, in greater abundance than in other portions. Such accumulations of ore are sometimes called pockets, chimneys, and chambers. As those terms are often indiscriminately and improperly used, I will attempt to explain the difference between the different classes of veins.

When the metal or mineral occurs in small branches, here and there, through the mass of the vein, it is called a pocket vein; first, because there is only a "pocket full" of the rich ore, and second, because the rich branches of ore are in most cases deposited in cavities of various shapes and sizes, in the gangue rock. In such cases the value of the vein will depend upon the number and richness of the pockets. The fact of finding rich pockets near the surface is strong *presumtive evidence* that pockets of like character may be found at greater depth, showing that a *line of pockets* may be expected to occur in the "*line of projection*" of the vein. Pocket veins generally have ore in small quantities distributed through the mass of the vein; when veins of this character contain ore enough, independent of the pockets, to pay current expenses, they may be considered safe mines to work. But if the pockets are small, and no ore is mixed with the mass of the vein, it will not do to risk much money or labor upon them.

CHAMBER MINES.

When the ore occurs in large masses, taking up the entire space between the walls of the vein, and continuing in depth and length sufficient to leave a large space when the ore is removed, it is called a "chamber mine." Such a chamber has been worked out in the Wide West claim, on Last Chance Hill, and another of like character is now being worked by the "Real Del Monte" Co., on the same hill. The peculiarity of chamber mines consists in the fact that the ore is accumulated in large masses, with radiating or branching veins from the chamber, as a center, all of which will contain more or less ore of like character with that in the chamber. It is rarely the case however that the spurs, or radinting veins from a chamber, are as rich as the chamber itself. And as they are followed out into the surrounding rock they gradually diminish in thickness until they become mere threads, and are lost.

Chambers of this character are as various in depth, as they are in length and width; they sometimes continue to great depths and are then called "chimneys." Such mines are common in the greenstone and porphyry formations of Mexico, and are sometimes of vast extent and richness. Those conversant with some of the best mining districts of Mexico, will be at once struck with the similarity of the geological formation of the Esmeralda Mining District, to those Districts in Mexico, where chamber mines most frequently occur.

The public have fallen into another error in regard to the mines in the Esmeralda Mining District They seem to think that when the chamber is exhausted, that the mine is then worthless, and must be abandoned. This is a very great error, for the fact that one chamber is formed in a vein, is very strong evidence that there are other chambers of like character in the course of the vein; and I should expect to find them at intervals more or less frequent so long as the vein could be followed in the depth—where they lie between the walls, like a strand of beads burried in the earth; and if the miner is skillful, he will follow the thread, and pull them off one by one, until the depth becomes too great for him to penetrate.

I will here observe that the rich sections of veins, *always stand endwise to the surface*. And the rule is as uniform almost, in that respect, as that observable in the vegetable kingdom. The trees stand up in the direction of their growth; *so do the dikes and veins of ore*. If it be a pocket vein, then you may expect to find a *chain of pockets* in its line of *projection* or growth. If it is a chamber mine, then you may reasonably expect to find a succession of chambers. by the same rule. If the ore occurs in a section of a vein, and is regularly distributed through the rich section, then you may be sure that the rich section will be found to stand endwise to the surface, and will always be found to continue as a section of the vein only—No matter to what depth you may follow it.

The observations above made are applicable only in geological structures of uniform character. It is a well known fact that veins change their character as they pass from one formation into another. They not only change their mineral character from quartz to spar, or from spar to quartz, as it passes from one class of "bed rock" to another, but they also change their ores, in part or in whole, where the changes in the surrounding rocks become clearly defined. These changes are as likely to occur in a *vertical* line, as in a *horizontal* and, if the vein, in its vertical line penetrates through more than one formation.

From these facts I draw the conclusion that the Wide West and Del Monte people should not be discouraged to the point of abandonment, merely because the first chamber in their veins has been worked out; for they may expect to find a succession of chambers in the vertical line of their veins, until they penetrate into a different geological structure, which I think is not likely to occur in Esmeralda Dist. We have an illustration of the truth of my theory in the opening of the Antelope vein on Silver Hill, which is about half a mile south-west from the Wide West claim. Here too they struck into a large chamber of rich ore near the surface. The company wisely concluded to sink a shaft to a greater depth, to see how far the rich ore extended. They soon cut through the chamber into barren rock, and continued to the depth of one hundred feet or more before they struck the west chamber of rich ore.

This case alone should satisfy the public that the theory claimed is true, for even in Esmeralda District we have an illustration of it that cannot be doubted.

Many of my friends will remember that from the first discovery of the District, I predicted that the best mines in Esmeralda belonged to that class called "chamber mines," and that if they were not careful they would get their fingers burnt with them; not because they were not valuable, but because they would either *over* or *under* estimate their value.

The Wide West and Del Monte claims were both, at one time, largely over rated. They are now both rated much below their true value. And why? *Because a system of favoritism has kept ignorant men employed, where skill and experience was most needed, in properly opening the mines and determining their character.*

The folly of such management has been fully illustrated in the management of the mines above referred to, as some of our best citizens have occasion to know; and the same system of reckless folly is continually being repeated in every part of the Pacific States and Territories.

Will our people never learn wisdom in mining business, as well as in other branches of productive labor? I answer yes; when our mining engineers learn their business *practically*, as well as *theoretically*; when they are able to tell in what *class* of rock the vein will contain the most metal, and at what depth the enclosing rocks may be expected to change to a barren formation, and whether the ore will occur in pockets, chambers, chimneys, or in sections of more regularity; and when they learn how to estimate for machinery, in proportion to the amount of the ore the mine will yield, and will make their reports upon the facts examined, without regard to the *opinions* or *wishes* of others. Then, and not till then, can our capitalists invest their money in mining operations, with anything like safety, or with an expectation—even of getting fair returns for the investment made. Many will point to the magnificent returns from the great Comstock vein, with its tier of rich paying claims, and seem to expect each new discovery should prove another Comstock. But such expectations are to be realized, in but few instances. What other mine on this coast could stand the enormous expenditures of capital that has been lavished upon those at Virginia City? Have these mines paid dividends *because* of such expenditures? I think not. *They have paid dividends in spite of the lavish and reckless expenditure of money* in machinery and other improvements. The Comstock and Gold Hill mines are the exceptions, not the rule by which other mines are to be judged. The reputation, alone, of the Comstock

vein, has ruined, financially, thousands, and will ruin more before the public will recognize the difference between the rule and the exception, in mining enterprises.

There are thousands of veins in the country that will pay handsome returns upon the proper amount of capital and labor being expended upon them. But if the proper bounds are not regarded, ruin must be the inevitable result. This is as certain as the fact that no vessel can carry more freight than its tonage measurement, without the risk of going to the bottom.

I have written this article for the purpose of pointing out a road of safety for those who are capable of measuring the future by the experiences of the present and past history of mining.

J. E. Clayton, M. E.

[Written for the Mining and Scientific Press.]

HINTS TO PROSPECTORS.

BY J. H. CHURCHILL, A. M.

(CONTINUED FROM PAGE ONE HUNDRED AND THIRTEEN.)

V. Prospecting must be undertaken, more or less, as scientific experimenting—a definite question must be put to mother earth, at every opening made into her bowels, and a definite answer obtained from every rap of the pick. It is not only, "Shall I find mineral?" It should be much more exact—"Shall I find gold, silver or other ores?" according to the indications from the surface and bedrock in its geological order. Sinking further, "Shall I find the minerals from which the croppings were decomposed?"—e.gr., pyrites where carbonate of copper has been abundant. "Shall I find it rich?" where at the croppings a cross-course has run into the lead. "How shall I find the dip?"—"how shall I find the direction of the heave of my lead?" in case of a fault. "How shall I identify my bed of coal?" where the dip and strike and casing are the only guide. Answers to such questions must be insisted upon. If such questions are systematically put with proper judgment, work to determine them will not be abandoned before the object to be sought is known to be there or not. Vast labor has been thrown away in idle guessing.

VI. It remains to show how to learn the value of your ore. Exact Sampling is the essential preliminary to Exact Assaying. For the first, any method of mixing materials of different sizes, which admits of rolling of the large particles over the smaller, will be fallacious. Sieves or rakes are necessary to sort the sizes; but they cannot do this completely. Rolling must be provided against by laying out the material, after sifting into different coarsenesses, in layers on a level smooth surface, of a thickness say twice that of the mesh of the sieve last used, then divided into portions, and then cleaned up. The exactness of the work must then be verified by determining whether the specific gravity of the different portions is the same in that equal measures are of the same weight. This is to be done readily by weighing equal-sized boxes or measures one against the other. This mode of sampling should leave no doubt, and is simple in practice. One error must be guarded against. As nearly perfect as this system of sampling is, through one operation, it secures no similarity between equal measures of ore of the same weight obtained at different samplings. The ore which does not pass through each sieve should be sampled, after sifting, and the sample reduced in size till it will pass through the sieve, and then mixed and resampled with the smaller ore.

[THE END OF SERIES I.]

Erratum.—In the Table, page 35, for "South Wales" read North Wales.

Burning, Roasting and Smelting Ores.—J. D. Whelply, of Boston, Mass., has patented a process and arrangement for roasting and smelting ores. In the process of roasting, water is made to perform a conspicuous part. The description, in the Official Patent office Report is merely technical, with reference by letters to drawings, etc., which cannot be understood in the absence of the drawings referred to. If the invention is valuable anywhere, it must be especially so on the Pacific coast. We should be pleased to hear from the inventor.

[Written for the Mining and Scientific Press.]

Sierra District—Humboldt County, N. T.

We have been furnished with a recent communication to the Tallulah Mining Company, written by Hon. James A. Banks, Superintendent of the mine, which is situated near the town of Dunglen, in the mineral district of Sierra, Humboldt county, N. T., and which was briefly alluded to in the columns of this paper some weeks ago. The well-known ability and integrity of Mr. Banks, warrants us in asking for the portions of this communication, which we subjoin, the careful attention of our readers. The Tallulah is a representative mine, and is owned principally by wealthy merchants and lawyers in San Francisco, who will not part with their interests and care very little for the fluctuations of the market. This mine has been opened to a great depth, and the value of the facts and opinions stated by Mr. Banks, after the most exhaustive and careful investigation, lies principally in their vindication of the importance of Sierra District and of the permanence of its mines. We append extracts as follows:

Dunglen, January 26th, 1864.

We are gradually, and I think certainly, getting clear of the burnt quartz, to which I alluded in previous letters, although the fissure is still to be seen in part of the ledge. Having just struck a kind of ore different from any I have sent you, I forward some of it by express. The kind I allude to is that which somewhat resembles black lead in appearance. Some of the other ore in the package is, in slight particulars, different from any I have previously sent. I consider these specimens rich, but, in estimating their value, an assay will be worth much more than my opinion. The ledge shows more silver ore than it has done at any other point in our progress in the incline, which is thirty feet deep. [This incline was commenced twenty-five feet to the south of where the vein was first tapped by the tunnel, at a depth of two hundred and fifty feet from the surface.] The ledge is upwards of three feet in thickness. In the place where the quartz was most burnt, it narrowed down to about eighteen inches; but that was only for a short distance. At that point, the wall rock, as is usual in such cases, was quite hard. Throughout all that portion of the ledge exposed to view, it is admirably defined, uniform in its position and in its course, running north and south, and pitching west. The walls are perfect, and the seams of clay separating them from the ledge are never wanting. The wall rock is porphyry. The shale formations in the vicinity generally pitch to the east; and, so far as it has any stratification, the graywack pitches in the same direction. Of course in the porphyry we find nothing that can properly be called a stratification.

I need not say to the members of the Board that these facts indicate clearly that this is one of those much valued depositories of the precious metals, called "fissure veins"—the non-existence of which in this section profound blockheads (whose arrogance and pretension are equalled only by their misconception and ignorance of the *local* geology of the district) have made such a mystifying display of learning to prove.

In addition to the fact I have stated, there are numerous other evidences in favor of the belief that this is a regular fissure vein, while there is not even a solitary fact that appears to be incompatible with this view. Nor need I call the attention of the gentlemen, whose reading has been recent, to the consideration that the geological formation within and about the Tallulah claim is the same as that of the richest and most *reliable* silver mines in the world.

* * * * * * * * * *

I wish it distinctly understood that I make no pretension to that kind of knowledge which enables some men to express the most positive opinion upon every subject relating to mines and mining; but depending mainly upon that science which lingers closely around the point of a pick, and having just completed a careful review of the claim and of matters connected with it, I feel fully warranted in stating as true the following propositions—some of which, it will be observed, are matters of fact, and some of inference:

1. Neptune Hill has, on every side of it, an immense quantity of quartz boulders of great size, from which valuable specimens of various kinds of silver ore have been, and can be, obtained, although they are not nearly so rich as the quartz recently struck in the tunnel.

2. These boulders can, in many instances, be traced to ledges that project above the surface, while in other cases the debris covers the croppings.

3. The lode we are now working, and from which I have sent you a considerable number of specimens, which will enable you to judge of its character, contains a large quantity of ore, which can be profitably worked; and, as we sink upon it, we will doubtless find it larger and richer, especially after reaching the water line.

4. The lodes we have not yet reached will prove to be both large and rich.

5. The veins we passed through in the tunnel before striking the last, show sufficient mineral, and are of sufficient size, to warrant the opinion that they will prove valuable, when followed to a considerable depth; and the Mattie Wayne ledge, below the mouth of the tunnel, is also a lead of considerable promise, being regular and affording some tolerable specimens. It is worthy of remark that these veins all run and pitch in the same direction.

6. The vein on which we are now working, while undoubtedly valuable in itself, is still more important as being indicative of the character of the other veins in Neptune Hill.

7. The topography of the hill is admirably adapted to the thorough and convenient working of the mine to a great depth.

8. The supply of wood within a range of three miles, is sufficient to render fuel reasonably cheap during the next five years, and the river affords an ample power at a distance not exceeding six miles over a good road.

9. The climate is much superior to that of Virginia, Aurora, Silver Mountain or Reese River, and fresh water springs are very numerous and easy of access; while much of the sickness that prevails here is clearly attributable to excess and to carelessness.

10. The development, thus far, of the Tallulah mine shows it to be exceedingly valuable; and it is highly probable, further developments will prove it to be capable of enriching generations. * * *

When the company determines to erect a mill, there will be no difficulty in procuring a site, at a small cost—merely a nominal one, I think. Water privileges and town sites are too numerous to warrant the spending of much time in considering such propositions as have frequently been presented to me since my arrival here. * * The company can ereect a mill here almost as cheaply as in Virginia City. With a small expenditure, certainly not exceeding one hundred and twenty-five dollars, I can construct a machine that will enable me to use timber found here for nearly everything about a quartz mill, and being practically, as well as theoretically familiar with the constructing and erecting of machinery, including of course, the making of all necessary drawings and calculations, no expensive mechanics will be required. The sending of such mechanics to distant points to "boss" the various departments in the erection of such works, generally involves a heavy expenditure, and their presence is often the means of uselessly spending large sums of money.

* * * * * * * *

The best plan is to more thoroughly develop the the mine, and erect a small mill, say of ten stamps, which will not cost a large sum, and with the proceeds of that, additional works can be constructed without burthening the members of the company.

In a postscript added on January 27th Mr. Banks says:—

"Last night we found in the vein a very fine deposit of silver ore, of which I send you a large sample. This piece is part of a chunk that weighs about seventy-five pounds. * * Either this is the richest kind of silver ore, or the books are most outrageously at fault. It seems to be very abundant, although as yet we have had but one blast in it."

The ore last mentioned by Mr. Banks, and tested here by George W. Bell, gave $2,940.60 to the ton; the ore he compared to black lead, yielded $2,058.40 and the refuse, after the best specimens were selected, $1,131.00. In each instance the vein rock and mineral were crushed together. Two hundred grains of the black metal, unmixed with quartz, yielded twenty-eight grains and a fraction of silver: this is at the rate of $6,005.63 per ton. Tests have been made in Virginia City, with similar results, and mill tests made in Unionville, were almost equally favorable. The mineral is a double sulphuret of copper and silver, containing no gold. Since the letter quoted from was written, the incline has been sunk to a depth of sixty-one ft. below the level of the tunnel, or three hundred and eleven feet from the surface of the ground. The ledge has gradually increased in size until it is now four feet and a half thick, with the black metal so abundantly distributed throughout it,

that often, amidst the stuff thrown out by a blast, scarcely any quartz is visible. In the meantime the tunnel is being pushed steadily ahead towards the other ledges, which crop out on the top of the hill, and by the time these lines are published, Fall's mill at Unionville, and the Auld Lang Syne mill near Dunglen, will probably be employed in producing bars to gladden the eyes of the holders of Tallulah stock.

After perusing the above, our readers will scarcely be surprised to learn that the Tallulah claim has been thus far developed at a cost of about eight dollars per foot, in addition to the original sum paid for a controlling interest in it. Its development is a perfect marvel of successful and economical management, and presents a significant contrast to the waste and extravagance that have distinguished the working of other mines, which, notwithstanding a large production of gold and silver, are now so burthened with debts as to be almost valueless.

The works of the company would not discredit Gold Hill or Virginia, and it owns a very large quantity of standing timber. Such precautions, too, have been taken as to render any conflict of title impossible.

Finally, we imagine the public will agree with us, that it is scarcely possible that Providence has placed only one mine, with all the conveniences for working it, including water, wood, salt, saltpetre and nitre, in Sierra district or in Humboldt county.

Slang of the Stock Exchange.—We publish the following from an exchange for the benefit of the uninformed:

"A Bull" is one who buys stocks on speculation, thinking they will rise, so that he can sell at a profit. It is to his interest to have stocks rise, and he will resort to every means to bring about the desired result.

"A Bear" is one who buys stocks on speculation, thinking they will fall, so that he can buy in for less money to fill his contracts. It is to his interest to break down the market, and he will resort to the most desperate means to accomplish his object.

"A Coroner" is when the bears cannot buy or borrow the stock to deliver in fulfillment of their contracts.

"A Deposit" is earnest money, lodged in the hands of a third party as a guarantee. "5 up," "10 up," etc., is the language expressive of a deposit."

"Overloaded" is when the bulls cannot take and pay for the stocks they have purchased.

"Short" is when a person or party sells stocks when they have none, and expects to buy or borrow them in time to deliver.

"Long" is when a person or party has a plentiful supply of stock.

"A Flyer" is to buy some stock with a view to selling it in a few days, and either make or lose, as luck will have it.

"A Wash" is a pretended sale, by special agreement between the seller and buyer, for the purpose of getting a quotation reported.

The quantity of oil produced annually from the Pennsylvania oil wells, is estimated at from 1,000,000 to 1,800,000 barrels. The wells have been producing at this rate for about three years. The oil wells average from 450 to 500 feet in depth. The capacity of the wells may be judged from the fact that from the Maple Shade well has flowed for some time past 1,000 barrels of oil per day. Nearly half a million dollars' worth of oil has been taken from the wells on one farm alone. The present population of Oil Creek and the contiguous villages is estimated at 10,000 souls. The number of oil refineries in Oil City is 40, and many more are being constructed.—*Oil City Register.*

Downieville Burned.—The principal business portion of this town was destroyed by fire on the evening of the 27th ult. It is the third or fourth time the place has met with a similar fate. The Court House, and that part of the town containing family residences, escaped injury, being situated across the river, upon Durgan and Jersey Flats. The offices of the Sierra *Democrat* and the *Standard* were destroyed. Remembering the kind offer which came from the former office when we were suffering from a similar calamity, we cannot but extend its proprietor our heartiest sympathy.

On the Loss of Gold Attending the Process of Amalgamation.

However theories may differ as to the metallurgy of gold, no one pretends to deny that, for some reason or other, the ordinary process of amalgamation is attended with serious losses. It is a matter of great importance to discover whether these losses can be prevented by greater care in the use of amalgamating apparatus, or whether they are inherent and inevitable in the process itself.

There is no doubt that the rudeness of machinery, and the ignorance and carelessness of workmen are responsible for much of the evil; but the following discussion will show that amalgamation, under most favorable circumstances, fails to extract all the gold from any ore.

It is necessary first to mention what are the most favorable conditions for the action of quicksilver upon gold.

1. The ore should be finely pulverized, in order that no particle of gold may remain inclosed in pyrites, or other mineral, and shielded from the effects of the mercury.

2 The quicksilver should be present in sufficient quantity to leave no gold untouched.

3. The quicksilver should be thoroughly and carefully mixed with the ore, and rubbed into it, *forcing*, as it were, a union of the two.

4. If the gold be abundant, and in visible particles, the operation will be so much the easier and surer.

It is evident that the above conditions can never be so well realized as in the laboratory, and in the treatment of small quantities of rich ore. In accordance with this rule, a specimen of "Josephine" Mariposa ore was selected, in which native gold could be abundantly seen. A small quantity of this ore was pulverized until the diameter of the coarsest particles was less than one sixteenth of an inch, then carefully washed and amalgamated, being strained at last through new wash-leather. The amalgam finally obtained was undoubtedly all that could be produced by such a process, and twice as much as the ordinary results of operations on a large scale. The "tailings" were now subjected to a metallurgical process, and their contents in gold extracted. The gold having been also extracted from the amalgam, the experiment was complete. The results speak for themselves.

	Oz.	Dwt.	
I. Quantity of ore taken.....	7.	7.5	
II. Quantity of amalgam formed	0.	10.5	
III. Quantity of gold in amalgam..	0.	2.28@$17 per oz.,	$1.94
IV. Quantity of gold in tailings...	0.	1.61@$19 per oz.,	1.53
V Quantity of ore.....	0.	3.89	
			$3.47

The gold obtained by amalgamation being less pure than that which comes from metallurgical treatment, is worth $2 less per ounce. Hence it was afterward submitted to a refining process, with the following result:

	Dwt.
III. Gold in amalgam.....	2.28
VI. Gold from amalgam, after refining.....	1.97
Loss of impurities.....	0.31
This being substracted from the gross result V., leaves us	
VII. Amount of refined gold in the ore, 3.58 dwt., of which the	
VII. Proportion from amalgamation was 55 per cent.	
VIII. Proportion lost by amalgamation was 45 per cent.	
	100

The 7⅜ ounce of ore originally taken had been previously concentrated by washing, which accounts for the richness of the result. But the richest ore must offer the best opportunity for amalgamation; therefore, the foregoing discussion demonstrates that amalgamation can not reach more than fifty-five per cent. of the gold *in a rich ore*, while the proportional yield under less favorable circumstances would be greatly diminished.

Experiments of this nature give strong if not conclusive evidence that much of the gold contained in sulphurets is itself a sulphuret, and not, as some chemists assert, merely in mechanical mixture, and native. Without entering into a full discussion of this point, it is sufficient to say that no adequate explanation of the loss by amalgamation, so inevitable and constant, can be given, save this, that the gold is partially in chemical combinations, which quicksilver cannot disturb.

If this be true, no merely mechanical treatment will suffice for the extraction of gold; and gold mining will only attain its best development and highest success, when it falls back upon the resources of scientific metallurgy.—*N. Y. Stockholder.*

Precious Stones for the Sanitary Fair.—Mr. Leland, of the Occidental Hotel, forwarded by the last steamer a choice selection of mineral specimens from this coast, to be exhibited at the Great Sanitary Fund Fair in New York. After exhibition, they are to be sold for the benefit of the sick and wounded soldiers and sailors in our national hospitals.

WIDE WEST MINING COMPANY.

We have received a copy of the "Report of a Committee of Investigation Appointed by the Stockholders of the Wide West Mining Company, January 25, 1854," neatly issued in a pamphlet form of 16 pages from the office of the Mining and Scientific Press. The work is well written, plain and comprehensive. The report is divided into two parts: part 1st comprises a brief history of the mining and milling operations of the company, as collated from the correspondence of the officers from may 1st, 1863, to the 1st of Feb. 1864. Part 2d relates to the executive and financial management of the company, covering the period of time between May 14, and Dec. 31, 1863.

From the letter we learn that during the period referred to, two assessments have been levied from which an aggregate of $184,165.89 has been realized; while the present value of assets over the liabilities of the company, estimating the mill to be worth $100,000, amount to only $111,932.18; thus showing an actual amount of $82,233.71 as sunk or expended during the eight and a half months alluded to in working the mill and developing the mine.

The amount of bullion received from the mine during the time was 12,026.56 ounces, yielding a value of $47,708.02, or an aggregate value per ounce of $3.96⅔. To this is added a balance of $1,275.21 received from the proceeds of ore crushed from the the Western Summit Co. As to the future of the mine the report adds:—

The mill is in a good condition, and with a good supply of ore could be made to pay a handsome profit. As to the prospect of this supply being obtained, we must confess that we see no immediate hope of it, but are confident that all which can be done to secure this, will be done by your Superintendent.

That the mine has disappointed the wishes and expectations of all interested, needs no assurance from your Committee, and we feel reluctant to state what may be our views as to the prospective results to be obtained. That the course already adopted by the Superintendent, of sinking a shaft on the ledge in the tunnel, should be approved of, we have no doubt; but the management of the Company's affairs being already entrusted to a new Board, we deem any further suggestions from us uncalled for.

The term Reese River, says a correspondent of the *Alta*, is applied indiscriminately to a very large scope of country. The river itself is an insignificant stream, rising about fifty miles south of Austin, and running nearly due north for a distance of about ninety miles. It empties into a lake, and sinks, in its course passing about eight miles west of this place. On either side of this river, and running parallel to each other and to it, are two ranges of mountains: the one on the west is said to have been called by the Indians the Shosbone Mountains, and the one on the east the Toiabe. This latter range seems to contain by far the most extensive and richest mineral deposits. In it are located most of the rock districts of the country—such as the Amador, Reese River, Big Creek, Summit, Bunker Hill, Smoky Valley, and others. That this mineral belt is very rich, there is not a particle of doubt; that it is the most extensive and richest yet discovered in Nevada Territory, I positively believe.

The Rush to the "Next Place."—Who is going to remain in Oroville? If all or any considerable portion of those who talk of leaving this place carry their designs into effect, a few months from now will find the population to consist only of county officials. Everybody is going somewhere this spring to make a fortune, and there is no use of talking or trying to reason the case with them—they all know that it only requires an effort to "make a pile," and are all determined to make a rush for some "sage brush region" as soon as spring comes.—*Oroville Record.*

It is so all over the country, and next fall we shall see them coming back poor as rats.—*Marysville Appeal.*

The miners of this State still need a little more tuition in the schools of humbuggery, so we will have to let them slide. Adventurers, like water, naturally find their "level."

MINING GOSSIP.

EDITED BY FRANK WARDDELL.

[In this department of the MINING AND SCIENTIFIC PRESS we propose to give various and brief accounts of mining companies, and shall, under all circumstances, write *plainly* respecting their merits and de-merits; furthermore, we shall bring to light such transactions as may come within our knowledge regarding the "Bulling and Bearing" system and the "underground" actions of both Trustees and Brokers. We are vain enough to suppose, at all events, that we have the "inside track," and shall, without *hesitancy or fear*, give to the public, from time to time, a peep behind the scenes whenever the occasion justifies. If, in doing so, at any time we have fallen in error as to our report, and it can be so proven, nothing will afford us more pleasure than to make the "*amende honorable*" by correcting the same. We shall feel under obligations to those who are interested in stock if they will communicate to us such items as may come under their observations, and which will prove interesting to our readers. This department is open for free discussion to "one and all." Our object is to render justice to every one. Communications, in all cases, must contain the author's name and address to insure publication, which will be kept *strictly confidential*—otherwise no notice will be taken of them.]

BOUND FOR BOISE.—Thousands, so it is said, are bound for this new mining region, and if we were to credit one half the astonishing and wonderful reports concerning this location, it is richer than any other spot ever yet discovered, and, as for Gould and Curry claims, why they are discovered every day in the week and in one word the only trouble you have to go through with before you become rich, is the disagreeable trip to the place. Now this talk may set some people excited and crazy, upon the subject of becoming wealthy in a day, and thus they are leaving good situations, disposing of their property and doing many other foolish things; but, gentleman, take our advice; don't rush wildly off; think matters over quietly; consider what you are risking for an uncertainty; the hardships you will have to undergo—and then take into serious consideration how many of your friends have heretofore returned home wealthy after going off in one of those wild stampedes.

ROMANCE OF THE WIDE WEST CONTINUED.—During the past week W. R. Garrison has commenced a suit against John W. Tucker, in the Fourth District Court, for the recovery of $48,600, being the amount paid for one hundred and twenty shares of the Wide West stock. Mr. Tucker was arrested upon four charges, in all—that of Messrs. W. R. Garrison and C. F. Smith, H. P. Wakelee, Donahue, Ralston & Co., and A. Gamble. These gentlemen allege that they have been swindled in consequence of different telegraphic dispatches having been sent to them from the mine, purporting to come from intimate friends of theirs, the true character of which they did not find out until after having acted upon them, and losing heavily thereby, that the dispatches were sent through the instructions of John W. Tucker, from parties of similar names, working in the mines, with the idea of deluding and taking advantage of them. The charges preferred against him are very serious, and place Mr. Tucker, we should think, in a very uncomfortable predicament. Time will be the only means of telling how this unpleasant matter will terminate.

ANOTHER PIONEER GONE.—It is with feelings of deep regret that we announce the demise of the well known old San Franciscan, Mr. Joseph R. Rassette, who, according to a dispatch received in this city, was instantly killed by falling in the shaft of the Chollar mine. The deceased was a very enterprising man and much respected. It will be remembered he was the owner of the once famous Rassette House. At that period he was considered one of our wealthiest citizens, but since then, like many others, he has experienced severe hardships and from what we learn died poor.

GREENBACKS.—If our readers at any time desire to purchase or sell Legal Tenders, they will do well by giving our jovial friends, Messrs. Rennie & Morrison, corner Washington and Montgomery streets, a call.

NORTH AMERICAN.—We are not prepared to give public what we know concerning the mysterious fall this stock experienced on Monday morning.

BURNING MOSCOW has improved in prices; nothing to warrant the rise, however.

NEW STOCK EXCHANGE.—We understand that the room in the Montgomery Block building, corner of Montgomery and Merchant streets, will soon be transferred into a Stock Exchange.—*Morning Call, March 3d.*

We are under the impression that there are already quite a sufficient number of stock boards and brokers in this city, without any further incorporations. The very fact of the disorganization of the S. F. Board of Brokers, within the past week, and the small amount of business done in the New Open Board, should be evidence enough that another board could not exist.

AMUSING.—We were quite amused, the other day, while partaking of dinner at one of our principal hotels, in listening to two very pretty young misses, who were seated directly opposite to us, among other subjects conversing upon that of the respective merits and demerits of the different mining claims, but more particularly the Potosi and Chollar mines. One of the ladies, we afterwards learned, was the lucky possessor of many shares in Potosi, and the other was interested in the unfortunate Chollar stock. Taking into consideration the fact that the two companies are now testing their rights in a siege of litigation, our reader can well imagine that the arguments, *pro* and *con*, were of a lively nature. We left the table silently, thinking to ourselves what a treat it was to hear ladies occasionally taking an interest in and discussing business topics.

S. F. BOARD OF BROKERS.—This once prosperous board of brokers have, we are sorry to say, (speaking in the miners' modern parlance) "gone up the flume;" or in plain words they have disorganized and now offer to the public their effects to the highest bidder for cash. It is rumored however that a new body of brokers intend re-organizing it. If such are their ideas, we would recommend to their serious consideration the importance of adhering more closely to parliamentary rules than the old board did.

BEAUTIFUL SPECIMENS.—The specimens collected from the various leading mines upon this coast to be exhibited at the great Metropolitan Fair in New York, were forwarded by Mr. Leland, proprietor of the Occidental hotel, on the steamer Golden City, March 3d. We never remember seeing a finer collection of specimens, and doubt not but they will attract much attention among the Gothamites.

NEVER TRADE ON SUNDAYS.—Parties who do not believe that it is unlucky to trade on Sundays, can gain a little information on that subject by consulting a number of victimized brokers who bought North American stock at $140 to $155 on last Sunday morning, from some of the sharper operators who are always on the "wing" for "points," at all hours of the night and day.

OFF FOR OWEN'S RIVER.—Such is now the cry, and the rush for this prosperous and healthy mining locality has commenced in real good earnest. Hundreds of old and new prospectors have taken their departure during the past week, and the accounts continue very encouraging indeed. Success attend them, say we.

ELECTION.—Mr. G. W. Gibb has been elected President of the Tallulah and Great Basin Mining Companies, in place of Mr. G. W. Johnson, who resigned the position on account of his contemplated departure for Europe. Mr. Thomas Hill has received the appointment of Secretary.

EAST LYNNE G. & S. M. Co.—This stock continues to be quite a favorite upon the market, and large quantities have changed hands lately, at prices ranging from $15 to $20 per share.

NEW SUPERINTENDENT.—Mr. R. H. Evans, formerly Superintendent of the Wide West mine, has been appointed to superintend the Real del Monte. We hope that better success will attend him in his new position than he experienced in his previous one.

REAL DEL MONTE MEETING.—We were in hopes of being able to lay before our readers, in the present issue, a full report of the investigating committee, which was appointed by the stockholders at their informal meeting to thoroughly investigate the affairs of this company. The meeting was advertised to take place on the evening of the 4th inst, but owing, as Secretary Willard says "to the unusual demand for transfers, it has been found impossible to prepare the stock list in time for the meeting," and it was therefore postponed until Saturday evening, March 5th, (for further particulars we refer to their card in another column,) which, unfortunately, makes it just one day too late for us to give the details to our numerous readers. However, it is a consolation to know we will have further time to look into matters and things, thus more carefully examining the said report. We will then use our best endeavors to ascertain "where the screw is loose," granting the committee have not succeeded in so doing. If we do, our readers can rest assured that we shall not tamely submit to underhand games, but come boldly out, as we have heretofore done, and make our suggestions. The daily press will no doubt publish the report; if so, we advise those interested, especially if the report is not so "high colored" as expected, and rather "luke warm" in its bearing, not to recklessly dispose of their stock at once but calmly to think the matter over in their mind for a few days, at all events.

ANOTHER DIVIDEND.—The Jefferson company yesterday, declared another dividend of $20 to the foot. This dividend pays two of our citizens very fair sums—one $4,400, and another, $3,200. The receipts for the crushing during the month of February were $30,599.—*Marysville Appeal*, March 1st.

NEW PETROLEUM COMPANY.—A company to be known as the Point Arenas Petroleum company was organized, in this city, the past week, with a capital stock of $700,000, divided into 7,000 shares of $100 each. The officers elected are as follows:—R. J. Tobin, President; D. S. Cutter, Secretary; S. B. Campbell, David Beebe, T. S. Bennett, R. J. Tobin and A. R. Briggs, Trustees. There are over 1,000 acres in the company's claim, which is situated on the west side of the Coast Range, and directly opposite the Coal Creek coal location, elsewhere noticed. This petroleum deposit is quite similar to that at Santa Cruz, occurring as a mass of saturated sand, but is richer in petroleum.

TECUMSEH MINING COMPANY, COPPEROPOLIS.—The accounts from this copper mine are very encouraging. Their principal shaft is now sunk to a depth of one hundred and fifty feet; the indications are good, and they daily expect to strike the lead. The mine is beginning to attract much attention, and the ore already taken out is of a superior quality. The stock of the company is mostly held by a few persons, and none can be sold outside without first giving them the privilege of purchasing.

BUCKEYE.—This stock has commenced, at last, to move, and is gradually going up in the market. The company, we learn, have made some fine and important improvements, and have now set to work "with a will," and a firm determination of thoroughly developing this mine. (About time, we should say.) They are now out of debt (an important item—also a great blessing), with prospects flattering.

THE MINING AND SCIENTIFIC PRESS.—This excellent journal comes to us greatly enlarged both in size and extended information. It is the most useful, instructive and necessary paper published in San Francisco for the benefit of miners and scientific men. It should be patronized by every man who has an interest in our mines; for there is no paper in San Francisco that takes such an interest in making favorable mention of the mines in this section and so willing to do them justice as this. It is published by Messrs. Dewey & Co., who are men of ability and understand thoroughly the subjects which they write about. It is a paper of more advantage to the Pacific coast, than is the *Scientific American* to the Atlantic States. It gives full and regular statements of the metal market—of Iron, Copper, Steel, Zinc, Lead and Tin—new incorporations and the price of stocks as they are held in the Stock Broker's Market, together with the daily transactions of the different Boards. Besides this it publishes all the new improvements being made in machinery and the methods of reducing, and treatment of ores. In fact it is the greatest necessity of this coast for Miners and Scientific men, for in it they may learn nearly everything they may want to know. It is ever a welcome visitor to our table, and we trust to receive it as regular in the future as we have in the past.—*Esmeralda Star.*

DECIDEDLY ARBITRARY.

The Bill of Mr. Shafter, for a crooked, rigid and narrow law for the publication of assessments and sales of mining stocks, has been amended by striking out *one* of its various foolish and abominable features, viz, the provision for the redemption, within ninety days, of the stock sold, in which condition the bill has passed to engrossment in the Senate. Possibly the means and influence of sharpers and selfish and "gobbling" publishers may carry the bill through; but in the honest intelligence of our legislators, and the exceedingly arbitrary provisions of the bill, we in fancy discern the spontaneous seeds of its certain death.

By this act no assessments of over 5 per cent. of the capital stock can be levied at any one time, and a second assessment cannot be made until all the requisitions of the law have been gone through with exactness to collect the former to the last cent. This is at least a piece of presumptuous guardianship over the assumed ignorance and incapacity of stockholders, who make their own by-laws and the trustees chosen to execute the same. In most instances, 5 per cent. assessments are all sufficient, but in others they are not. The capital stock of many companies in the State has been fixed, by the unassuming holders, at a modest figure, nearer the comparative value of their mine than "wild cats" are apt to place theirs, and it is as injurious as it is unjust to disregard their common sense rights and interests, as this bill certainly does. A large number of companies, whose stockholders' means are limited, are in the habit of making monthly assesments of twenty-five cents per share, but the restrictions of Mr. Shafter precludes this, and if an initial letter of the name of one of the shareholders should be published wrong, the works of the company must stop until the full process of the law has again been through with, and the publisher furnished an extra advertisement or two.

The order levying an assessment must specify the time of advertising the sale of delinquent stock, which shall not be less than thirty nor more than thirty-five days. Will Mr. Shafter, or any other advocate of this "important bill," inform us of any *good* reason why the time of advertising should be limited to between just *thirty and thirty-five* days? What harm would accrue if the trustees should be allowed to give stockholders in San Francisco, Washoe, or New York, thirty-six days' notice, in some instances at least, before obliging them to pay their assessments or be taxed for a notice of sale?

Again, the sale can take place within *ten* days of the time fixed for its first advertisement, but it shall not be made *after* a notice of over *twenty* days. If ten days notice suits Mr. Shafter's arbitrary feelings, why outbar the more liberal notions of equally honest men, in the management of their own affairs, and the privilege of giving twenty-five or a hundred days' notice if they see fit? What harm would come of it.

If the publication is in a daily paper it may be either ten or twenty days; but if in any other, it must be just two weeks—no more or less. Being a little interested in the matter ourselves, and having a few friends among the mining fraternity of the State, we respectfully ask Mr. Shafter to explain to us all (when his bill again comes up) why he did not bestow this, the most liberal feature of the bill, upon those whose wisdom and economy leads them to patronize weekly publications—allowing them also to extend the period of insertion.

The closing section of the bill is in keeping with the illiberality of the balance, and requires that it should take effect immediately after its passage, without allowing time for its imperative provisions to be properly circulated and understood.

We know of but one essential amendment necessary to our present laws for selling delinquent stock, namely, a simple provision requiring secretaries in their notices to state the location of the claims of the company. The present laws have been tried, are well known, and with the above exception are pronounced "very good" by a larger class of honest and intelligent men than will ever be found to sup- Mr. Shafter's "Bill for the Arbitrary Distinction of the Acts and Literature of Mining Associations."

WASHOE STOCK MARKET.

Collated from the Regular Reports of the Virginia Daily Union to Latest Dates.

Stocks during the week covered by our report have not been as active as for the two weeks previous. Sales are still chiefly confined to American Flat. Dealers are more cautious in making investments, and many are waiting for further developments. Our list of "asked" and "bid" contains the latest figure of each company reported, and is confined exclusively to transactions within the week.

LATEST ASKED AND BID.

Gold Hill District.—Arizona, $14 bid, $20 asked. Argo, 6b, 18a. Astor, 17b, 20a. Branch Mint, 19h, 30a. Bullion, 78b, 90a. Baltic, 170h, 190a. Baltimore American, 45b, 50a. Bell Vernon, 3b, 9a. Challenge, 7a. Claremont, 7a. Combined Effort, 12b. Consolidated Company, 29h, 35a. Caledonia Tunnel, 20b, 28a. Crœsus, 50b, 60a. Crœsus Original, 2b, 15a. Crown Point Ravine, 20a. Empress, 5b, 15a. Frankel, 6b, 7.50a. Golden Swan, 15b, 50a. Globe, 15b, 29a. Harold, 10h. Jim McClellan, 1.25h, 4a. John A. Logan, 15a. Kentucky, 3h, 5a. Keystone, 30b, 45a. Keystone No. 2, 11b, 24a. Knickerbocker, 42.50b, 42.50a; do., 55b, 55a–buyer 10 days. Lafayette, 25a. Leon, 11b, 20a. Louisville, 4h, 15a. Mary Ann, 36b, 55a. McMeans & Williams, 3h, 6a. Miantonomah, 7b, 13a. North American, 120b, 140a. New Oregon, 13b, 19a. Napoleon, 7b, 9a. Northern Light, 8a. Nevada, 8b, 14a. Occidental Consolidated, 3b. Overman, 500a—seller 3 days. Oneota, 11b, 16a, Pontiac, 8a. Rock Island, 15b, 23a. South Bullion. 6a. Stevenson Kehoe, 60b, 12a. Sweezy, 6a. S Francisco, 3b. Texas, 20a. Tontine, 16b, 22a. Vesuvius, 12b, 22a. Golden State, 5a. Abell & Keys, 12a. Champion, 5a. Cresceut, 5b. Cincinnati, 10a. Carson, 7a. Colorado, 7b, 10a. Coppers, 10b, 25a. Contraband. 5a. Dardanelle, 2.50h, 3.50a. Diligent, 7a. Effingham, 5a. Excelsior, 25a. Golden Horn, 5.50b, 6a. Hawkeye (Original), 80a. Jewett & Shepard, 7h, 7a. Jacksnn, 25a. Massillon, 9a. Narragansett, 1b, 4.50a. Pride of America, 1b, 5a. Pilot, 5a. Republic, 25a. Sandy Bowers, 3b, 3a. Yellow Jacket, 900h, 975a. Yolo, 10b, 14a. Hartford, 13b, 20a. King Solomon, 10b, 15a. Utah, 8b. Uncle Sam, Sr., 9b. Silver Vale, 4h. Mother Lumpkins, 2b, 15a. Alamance Consolidated, 2b, 5a. Burke & McClellan, 5b, 15a. Schuylkill, 5b, 25a. West Point, 8a. Clinton & Hubbs, 20b. Golden Eagle No. 1, 15a. G. H. Q. M. & M. Co, 285b, 285a. Justice, 250a. Jenny Lind, 1b. Midas, 1,500. Victor Hugo, 5b. Dowd, 3a. La Plato Oro, 10a. Muy Rico, 16b, 35a. Ormus, 2a. Michigan, 60a. Central Park, 15a. De Soto, 31b. Golden City, 1a. Belcher, 1,400a. Cherokee, 4a. Alpha, 1,-100a. Gold Hill & Virginia Divide, 7b, 15a. Mountain Spring M. & W. Co., 3a. Palo Alto, 2h. Richmond, 15a. Senior, 10h.

Virginia District.—Allen $20 bid, $50 asked. Burning Moscow, 90b, 100a—buyer 30 days. Birdsall, 4b, 12a. Grass Valley, 40b. 60a. Milton, 50a. North Potosi, 65a—b 30. Sutro, 8a. Bajazette and Golden Era, 45h, 80a. Honduras, 9b, 11u. Iowa, 150a. Kenosha, 6a. Mount Davidson, 5a. New Orleans, 10a. Osceola, 12a. Pioneer, 5a. St. George, 15a. Moss, 22.50b, 55a. Sierra Nevada, 110a. Santa Rosa, 1.50. Wm. Penn, 5h. Keystone No. 2, 20a. Beach & Paxton, 85a. El Dorado, 70. Seneca, 6h. Spanish No. 2, 40a. Utah, 110a.

Flowery District.—Atwill, $1 bid, $3 asked. Lady Bryan, 50b, 60a. Lady Bryan No. 2, 1b, 8a. Uncle Sam, 5b, 6.50a. Wealth Company, 4a. Weal Chance, 10a. Yaukee Blade, 5a. Cherokee, 3a. Harrison, 2b. Desert, 40a.

Indian Springs District.—Randolph, 35a. Orion, 15a. Lyon, 10a. Winona, 10a. Jackson, 18a.

Devil's Gate District.—Daney, $125 bid, $200 asked. Sebastopol, 10a.

Palmyra District.—Randolph, $30 bid, $44 asked. Rappahanuock, 20b, 45a. Rock Point, 5h.

SALES SINCE OUR LAST ISSUE.

Ten feet Knickerbocker at $42.50; 5 feet ditto at 42.50; 5 feet ditto at 42.50; 5 feet dito at 42.50; 20 feet ditto at 55 (buyer 30 days.) 10 feet Frankel at 6; 10 ft ditto at 6. 5 ft Astor at 14; 5 ft ditto at 15. 10 feet Uncle Sam (Flowery) at 5. 10 ft Honduras at 11. 35 ft McMeans & Williams at 4.50. 50 ft Richelieu at 6. 10 ft Argo at 9. 10 ft Branch Mint at 23. 5 ft Jewett & Shepard at 8. 50 ft Sandy Bowers at 3. 10 ft Consolidated Company at 30. 10 ft Mary Ann at 55; 10 ft ditto at 60. 10 ft Jewett & Shepard at 7. 10 ft Jenny Lind at 6; 70 ft ditto at 5. 20 ft Argo at 10. 10 ft Rock Island at 16. 10 ft Grass Valley & Napoleon at 3. 10 ft Harold B. S. S. at 2. 15 ft Milton at 46. 10 ft Rock Island at 16. 50 ft Jenny Lind at 5; 20 ft ditto at 4. 5 ft Harold at 41. 10 ft Dr. Perry at 25c. 10 ft Silver Vale at 8.50; 10 ft ditto at 8.50. 5 ft Cincinnati at 2. 20 ft Globo at 14; 20 ft ditto at 14. 2½ ft Hawkeye (Original) at 60; 5 ft ditto at 60. 10 ft Napoleon at 7. G. H. Q. M. & M. Co. at 285. 10 ft Pony Express at 5. 10 ft Arizona at 14.50; 10 ft ditto at 15. 10 ft Milton at 40. 10 ft ditto at 3.50; 10 ft ditto at 3.50; 10 ft ditto at 4; 10 ft ditto at 4. 200 ft Yankee Jim at 1.50. 20 ft Weal Chance at 7. 5 ft Uncle Sam (Flowery) at 5.50; 50 ft ditto at 5. 10 ft North Ophir at 2. 50 ft Sandy Bowers at 1. 5 ft Consolidated Company at 30. 10 ft Argo at 6; 10 ft ditto at 8. 25 ft Harold at 10. 10 ft Keystone No. 2 at 10. 10 ft Jenny Lind at 4.50. 20 ft Arizona at 16. 5 ft Caledonia Tunnel at 24. 10 ft Dr. Perry at 25 cents. 5 ft Irving at 11. 20 ft Grass Valley & Napoleon at 1.75. 1 ft Milton at 50. 12½ ft Knickerbocker at 43.50. 5 ft Harold at 10. 25 ft Gentry at 5. 5 ft Muy Rico at 20. 10 ft Abell & Keys at 1. 4 1-6 ft Crown Point Ravine at 11. 35 ft Belle Vernon at 3.50. 5 ft Grass Valley & Napoleon at 1.75. 20 ft Gentry at 5. 20 ft Silver Vale at 6.50; 25 ft dito at 7; 25 ft ditto at 7; 10 ft ditto at 7. 15 ft Honduras at 8; 25 ft ditto at 8.50; 10 ft ditto at 10; 10 ft ditto at 9.50; 10 ft ditto at 10. 5 ft Justice at 225. 55 ft Knickerhocker at 35; 10 ft ditto at 40; 10 ft ditto at 42.50; 10 ft ditto at 45. 20 ft Arizona at 8.50. 5 ft Frankel at 5.50; 5 ft ditto at 6. 25 ft Silver Vale at 6.50. 10 ft Northern Light at 6. 5 ft Uncle Sam at 5; 10 ft ditto at 5.50. 10 ft Crown Point Ravine at 13. 10 ft Lady Bryan No. 2 at 3.75; 10 ft ditto at 3.75; 5 ft ditto at 3.50. 10 ft Navigation at 8. 20 ft Lady Bryan No 2 at 3.75. Ten feet Lady Bryan No. 2 sold at 4.50. 25 ft Arizoua at 9. 10 ft Branch Mint at 20; 5 ft Knickerbocker at 32.50; 10 ft ditto at 35; 10 ft ditto at 37; 10 ft dittto at 37.50. 10 ft Napoleon at 6; 10 ditto at 6.50; 10 ft ditto at 7. 10 feet Rock Island at 20 (buyer 30 days.) 5 ft Randolph at 30; 5 ft ditto at 35.50. 5 ft Honduras at 9. 5 ft Shamrock at 3. 10 ft White Dove Consolidated at 3. 25 ft Frnukel at 26.50. 20 ft Mantonomah at 9. 15 ft Dardanelle at 3. 10 ft Northern Light at 5. 3 ft Lady Bryan No. 2 at 4. 25 ft Silver Vale at 5. 10 ft Gentry at 2.75; 5 ft ditto at 2.75. 50 ft Grenada at 1. 20 Northern Light at 6. 10 shares Rock Island at 18. 15 shares Kentucky at 4.50. 25 shares Gentry at 2.25.

Reese River.—The followiug items are from the *Reveille:*

We were lately shown a letter received by gentlemau in Clifton, from the secretary of a mining company whose claims are located here, but who resides at Folsom, Cal. He, with others of the company, object to the working of their claim in which they were gratuitously located by the prospectors, now residing here, and anxious to go on with the development of the mine. This seems to be a case of generosity misbestowed. Men at a distance selfishly accept of "feet" in ledges for the sole purpose of putting the stock in the market, and never a thought or an effort to make it productive. If such do not wish to work, or assist with means the miner in the development of his discovery, it would be more manly and honorable to return the stock to the original locators, and not be the dead weight that would starve one, and retard the general prosperity of the country.

Several gentlemen of this place (Austin) have been granted a franchise to build a toll road from here to the Colorado river. They will send out a party on the first of next month, and they expect to commence operations as soon thereafter as possible. As this road will pass through Summit, Bunker Hill, Smoky Valley, Washington and San Antonio districts, it will do much towards developing the resources of those rich sections and thereby benefit the whole country.

Three tons of ore from the Gen. Sigel ledge were lately crushed at Hildreth's mill, with not extravagant but favorable result, yielding 318.25 ounces, valued at $399.94. It was melted and assayed at the office of Veatch & Co. This yield is at the rate of $133 per ton.

California Raisins.—The *Scientific American* says that California raisins are a great novelty at the East. They are said to be equal to the best imported, and can be sold at a lower figure. Very few have appeared in the Atlantic States, but in the course of time they will drive the foreign fruit from the market.

Mechanical Department.

OUR MECHANICAL INTERESTS.

Never has a greater activity in building been witnessed in San Francisco than at the present moment. Dwelling houses and stores are going up in every part of the city, and still the demand for "more" is constantly felt. Many of the structures in progress are of a very superior order, and for durability, size and architectural beauty, will compare favorably with any city in the Union. Our foundries, though constantly increasing their area and general facilities for work, still find it almost impossible to answer the orders that are constantly crowding in upon them. A larger amount of substantial sewerage and other street improvements, is now in progress than has been witnessed at any former period. According to present appearances, our streets will soon be placed in excellent condition, always excepting the slovenly manner in which the street *cleaning* department is managed. Brick sewers, good pavements and clean streets are important adjuncts to the general prosperity of a city, and indispensable requisites to its health and comfort. In street railroad facilities, we believe there is no city in the Union better supplied than our own. Every branch of mechanical industry in our midst is prosperous beyond all former precedent. Go where we may, the busy hum of industry meets us on every hand, and the very air is resonant with the evidences of our prosperity. There is scarce a branch in all the various departments of industry that is not represented in this city.

It seems but right, in this connection, that we should take a brief retrospect of the past. It is but a few years since our market was constantly glutted with the refuse fabrications of eastern mechanics and manufacturers, in return for which our hard earned gold was shipped in such quantities that but little was left, in the way of capital, with which to build up home manufactures to avert the evil. The few who were then struggling, almost against hope, in this apparently vain effort, met with but poor encouragement, even from those equally interested with themselves in their success.

Our pioneer mechanics and manufacturers, in the meantime, however, kept up a stout heart. That noble institution in our midst, the Mechanics' Institute, proved itself a most useful and important instrument in bringing about the change which was so soon witnessed in this particular. It is to this institution that we are mainly indebted for that combination of effort which has resulted in freeing California from the thraldom of distant dependence. The yoke of eastern monopolists no longer galls our necks. Instead of sending to the Atlantic States for nearly everything which we need in the mechanical line, and drawing on our mineral resources for the necessity, we are now not only meeting our own demands, but actually supplying immense quantities of machinery for our Mexican neighbors and for the far interior of the continent, hundreds of miles beyond the eastern boundary of our State. The gold which once flowed East for this supply now circulates among our own mechanics, and serves to sustain and build up an interest which promises, ere long, to become one of the most important, as it is even now the proudest, of our growing State. It is to this new turn in the tide of our domestic industry, that we are to attribute the wonderful improvements which we briefly passed in review at the outset of this article, and which we now witness in our city's progress. The mechanics of San Francisco may justly look with pride upon what they have accomplished within the past four or five years. They have, in that time, made a record unequaled in the history of any other city in the world. Our people have not only accomplished all this in mechanical advance, but we have even reversed the history of the past with our commerce—we have been shipping "coals to Newcastle" in supplying South America, our early granary, with cereals of our own raising. The products of our soil have even found their way "around the Horn" and across the ocean to seek a market in English ports. Our unequaled energy has, in short, created for itself a repute which is world wide, and as permanent as our very mountains; while our honest industry grows healthier day by day, and more independent. Our field of labor is ample, and with a demand which knows no limit, and talent and enterprise unequaled, we see no obstacle to the early approach of our city to a position which destiny seems to foreshadow, as the leading commercial and mechanical metropolis of the globe.

Expansion of Wrought Iron.—Wrought iron, in being heated from 32 to 250 degrees. expands at the rate of one inch in every 450 of its length. A steam boiler 16 feet long, in the process of getting up steam, expands seven-sixteenths of an inch. This fact has been verified by careful measurement. Railroad tracks, tubular iron bridges, and all similar structures are constructed with open joints, to meet the alternate contraction and expansion which is constantly going on in consequence of the daily variation in the temperature of the atmosphere. It is stated on the authority of Mr. Stephenson, the eminent engineer, that a track of three or four miles of road was once laid near Peterborough, in England, without a proper regard to this simple fact, and the consequence was that on the first warm day the sun caused such an expansion of the iron that the rails and sleepers were raised in one place to a height of three feet in the air, arching over an extent of fully fifty feet of ground.

American and Foreign Patents—The opinion is generally prevalent, we believe, that a larger number of patents are annually issued from the American Patent Office than from any similar foreign office. Such, however, is not the fact, as will be seen by the following comparative statement of the number of patents issued for the ten years prior to 1856, from the Patent offices of the United States, England and France, respectively:

England,	United States,	France,
5,244.	10,695.	22,917.

It will be seen, on comparison, that the patents taken out in the United States exceeded those issued in England by a little over twice the number; while those issued in France exceeded the issues in the United States in almost precisely the same ratio.

Locomotives.—At the breaking out of the present war, the Baltimore and Ohio Railroad owned 235 locomotives, all in running order—the greatest number owned by any single road in the world. The Illinois Central Railroad, at the same date, was furnished with 17 miles of cars, and the road was even then, and still is, entirely inadequate to accommodate all the business that seeks to pass over it. The number of locomotives in Great Britain in 1863 was 6,398. The ordinary wear or life of a locomotive is about 20 years.

An Improved Saw Mill Carriage, has been patented by Mr. Dennis Lance, of Springfield, Vt., which relates first, to a clog so constructed and connected with a lever or handle, that by a very simple adjustment the log may be set to the saw, and the log supports gigged back, when necessary, to receive a fresh log to be sawed. A convenient arrangement is also attached by which the log may be sawed in taper form, when required.

Packing for Journal Boxes.—Jonathan Cork, of Red Banks, N. J., has obtained a patent for an invention whereby he employs grass wrack, sea-eel grass, or other sea grass, dried, cured and saturated with a suitable lubricating substance, as a substitute for cotton waste and other fibrous material, generally used as a packing for the journal boxes of railroad car axles, the shafting of machinery, etc.

The Harmon Gold and Silver Mining Company, of El Dorado county, have declared a second dividend; three dollars a share being the amount coming to the stockholders this time.

A Most Unwise Recommendation.—We observe in our Carson correspondent's letter of yesterday that his Excellency, Governor Nye, has sent a special message to each branch of the Territorial Legislature, recommending these bodies to subscribe for from $500 to $1,000 dollars' worth of a certain book to be published by one Silversmith. As we happen to know something about the book on the "Metallurgical and Mineral Wealth of the Pacific Coast," and of Mr. Silversmith, who professes to be competent to compile such a work so as to make it "interesting to the people of this Territory," and knowing that the Governor's recommendation, should it be adopted, will entail several thousand dollars of expense on the people of the Territory, we feel it incumbent on us to expose the humbug. Mr. Silversmith will never publish such a book; he is altogether incompetent to accomplish such an object; destitute of even a rudimentary knowledge of the sciences he in his prospectus refers to; without either talent or means—save impudence; how will he be able to accomplish a work that requires talents of the highest order and large means to render "interesting to the people of this Territory?" Mr. Silversmith was at one time the reputed editor of the *Scientific Press*, published at San Francisco. Any person desirous of being informed on that gentleman's accomplishments will be posted by inquiring at the office of that paper. We very much regret to say that we fear Governor Nye has permitted himself to be imposed upon. If he wishes to retain his reputation for common sense, we trust he will immediately recind his recommendation to encourage the vilest of humbugs. —*Virginia Bulletin, N. T.*

We are without the least authority for *contradicting* the above. Neither of the present proprietors of the *Press* have ever been associated with the above named individual, and our friends will do us a great favor by refraining from associating his name in connection with our journal.

Coal Creek Coal Mining Company.—This coal mine is located about six miles east of Cloverdale, Sonoma county, Cal., and three miles north of Russian river, on what is known as Coal creek, a tributary of Sulphur creek. The location covers 320 acres. This coal was first discovered by Peter T. Archambou about two years ago, and a company was organized and incorporated for working it, on the 7th of November, 1863, with a capital stock of $120,000, divided into 600 shares of $200 each, with R. B. Marklee, A. P. McCarty and D. S. Cutter as Trustees. The coal, which is a cannel of a very superior quality, has been discovered in eighty different places on the ground, located in beds of from one to five feet in thickness. Subsequent to this location, a party known as "Alley & Co." went upon this mine, and did considerable work. Suit was brought against them in the District Court of Santa Rosa, and on the 19th instant the jumpers were dispossessed by order of the Court, and the Coal Creek Co. again placed in possession. This company is now actively engaged in opening their mine. We are informed that many coal miners of much experience have visited this mine, and pronounce it one of the most promising in the State. Specimens of the coal have been left at this office. This mine is located within three miles of a projected railroad communication with San Francisco Bay.

The Stock of Lumber in this city is being rapidly decreased, owing, in part, to the low water in the streams, and in part to the stoppage of the supply usually derived from the Mendocino mills, recently destroyed by fire. Prices are advancing in face of an unusually active local demand, which promises to consume all our old stocks before the new Mendocino mills can be rebuilt and placed in good running order. Two very fine engines, each 20-inch cylinders, with 4-foot stroke, are now in progress of construction at the Miner's Foundry, in this city, and designed for the mills above alluded to as having been destroyed by fire.

Argentiferous Sulphide of Copper.—A sample of argentiferous sulphide of copper, taken from the tunnel in the Great Central mine, in Weaver District, Arizona, at a distance of fifty feet from the mouth of the tunnel, carefully assayed by Messrs. Wm. P. & Theodore A. Blake, of this city, yielded as follows: Copper, 63.18 per cent.; silver, $186, and of gold a few dollars per ton of 2,000 pounds.

Patent Department.

Steam Condenser.—Mr. Thos. McCauly, of this city, has made application through the Mining and Scientific Press Patent Agency, for letters patent for a steam condenser, in which the condensing agent employed is air instead of water. This invention is designed for application for stationary engines, in localities where there is a scant supply of water, and also for enabling engines to keep up a continuous feed from a single supply, to be increased only by the percentage of leakage which may arise from working. By the employment of this condenser, an engine may keep up a continual supply of pure water, which obviates all possible danger from deposit of mud, or scale. From it, an engine may derive all the material benefit obtainable from a low pressure engine, and will furthermore avoid all possible danger from low water in the boiler.

Our Washoe friends will also find in its use an entire immunity from "scale" in their boilers, which is now a most important difficulty to be overcome by engineers in that region.

The condenser requires no power whatever, for its operation, while the condensers in ordinary use, in marine engines, lose nearly one-fifth of their power from the necessity of their employment The invention of Mr. McCauly is inapplicable to marine engines from the fact that it requires more room than could be ordinarily allowed for such an apparatus on ship board. The inventor will take immediate steps to bring the principles of this invention to the notice of engineers in Washoe.

A New Amaloamator and Separator.—Mr. W. D. Farrard, of this city, has recently produced something of a novelty in the way of an amalgamator, which has been at work during the past week, on Market street, nearly opposite the head of Sansome. This machine differs entirely from any other in use, its operation being more like that of a common clothes washing machine than anything else we have met with. The body of the machine is trough shaped and may be of wood or iron, with dies to fit upon its inner surface. The mullers are attached to a rocking shaft and are moved backwards and forwards. instead of in a circular direction. The dies are parallelogram in shape, with groves or recesses for the quicksilver, in which it is gently agitated with stirrers. We have seen the machine in operation, and it appears to work well. Very important results are claimed for it. It possesses the advantage of compactness and simplicity inferior to no amalgamator in use, and is well worth the attention of miners. Applications for letters patent have been made through the Mining ann Scientific Press Patent Aoency.

Clothes Washing Machine—*A California Invention.*—W. M. Blood, San Francisco, Cal. This invention consists in the employment of a stationary concave of rollers, fitted with a proper suds-box, and used in connection with an oscillating, yielding or elastic rubber, the same being attached to a rock-shaft, the bearings of which are fitted on springs, and the rock-shaft, with a treadle attachment, all so arranged as to enable clothes to be washed in an expeditious and perfect manner, and without injuring the same by excessive or undue friction. A patent has been received for the above.

A New Journal Box.—G. C. Hunt, of Bridgeport, Mass., has secured a patent for a new method of constructing journal boxes. This invention consists in the employment of a box with hollow sinks and bottom, whereby an oil fountain is produced, from whence the oil is taken up to the axle, by means of one or more wicks, the same being so acted upon by weights or springs so as to be always held in close contact with the axle; they thus carrying up the requisite supply of oil, without allowing any waste.

Labor is the parent of all the lasting wonders of the world, whether in verse or stone.

The Mining and Scientific Press Patent Agency,

OFFICE, 57, GOVERNMENT HOUSE, SAN FRANCISCO.

Information About Obtaining Patents.

The Patent Law Amendment Act, of March 4th 1861, and March 3d 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be witheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent? A positive answer to this question is only to be had by presenting a formal application for patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the Mining and Scientific Press. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Preliminary Examinations.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search, made at the U. S. Patent Office, Washington, through the medium of our associate in that city, to ascertain whether among all the patents and models there stored, any invention can be found which is similar in character to that of the applicant. On the completion of this special search we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollars. This search, though it involves the expense just named, will usually prove satisfactory. If the same device has been before patented, the time and expense of constructing models, preparing documents, etc., will in most cases be saved; if the invention has been in part patented, the applicant will be enable to modify his claims and expectations accordingly. Many other obvious advantages attending the Preliminary Examination; although the strictest search does not always enable the applicant to know positively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publication; or some other person has been previously rejected on an analogous device; or some other invention for a similar purpose, but partially resembles the applicant's in its construction; or the Government makes an unjust or uncommon decision. Against none of these contingencies does the Preliminary Examination provide; it will, however, generally inform the applicant whether an improvement similar to his and used for the same purpose has ever been patented or not in this country.

Persons desiring the Preliminary examination are requested to remit the fee ($10), and furnish us with a sketch and description of the invention.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian, Spanish, and Inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens The only discrimination made is against subjects of governments that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues.—If the application is rejected we cause a thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have excess to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client. For this service we make no charge. If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The laws requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimensions; it should be neatly made, of hard wood or metal, or both varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: Dewey & Co., Mining and Scientific Press, rooms 56 and 57, Government House, corner of Sansome and Washington Streets, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail.—The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due, and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued, the applicant will be notified to remit the last installment of the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Return of Models.

Under the new law, if the applicants case has been rejected he is entitled to withdraw his model from the Patent Office.

This law applies to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expense

Application for Patents, Designs, Trade-Marks, Labells, etc.

Under the new law patents may be taken ont for any new form of any article, also for tools, patterns, castings, machine-frames, stove-plates, borders, fringes, all new designs for printing, weaving or stamping upon silks, calicoes, carpets, oil-cloth, prints, paper-hangings, and other articles. Trade-marks, labels, envelopes, boxes and bottles for goods, may also be patented; likewise all works of art, including prints, paintings, busts, statues, bas-relief, or compositions in alto, or basso relievo, new dies, impressions, ornaments to be placed upon any article of manufacture, architectural work, etc.

Our facilities for the prompt preparation and securing of patents are of the most extensive character and our charges are very moderate.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the tariff of fees established by law:

On every application for a design, for 3 years and six months...	$10
On every application for a design, for seven years.....	15
On every application for a design, for fourteen years.....	30
On every caveat.....	10
On every application for a patent.....	15
On issuing each original patent.....	20
On filing a disclaimer.....	10
On every application for a re-issue.....	30
On every additional patent granted on a re-issue.....	30
On every application for an extension.....	50
On the grant of every extension.....	50
On appeal to the Commissioner from Examiners-in-chief.....	20
On every appeal to the Judges of Circuit Court, D. C.....	25

Infringements.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunction from the Court, to an arrest of or prohibition from the employment of his machinery, shop, works, factory and men in production of the article.

In addition to injunction the infringer is liable to be mulched in treble the amount of damages awarded by the jury. The maker, the workman, the seller, and the purchaser, if a user, are all liable either collectively or individually.

Having access to all the patents, models, public records, drawings and other documents pertaining to the Patent Office, we are prepared to make examinations and give opinions upon all infringement questions, advise as to the scope and ground covered by patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Appeals.

In rejected and other cases, the new law provides for an appeal from the Examiner-in-chief to the Commissioner in person, on the payment of a fee of twenty dollars. A further appeal may be taken from the decision of the Commissioner to the U. S. Court, of the District of Columbia. These appeals are heard by any of the Judges before whom the applicant elects to bring the case. No Jury. All the papers, models, etc., are sent by the Commissioner to the Judge, who then reviews the case, and either sustains or reverses the Commissioner's decision.

The party taking the appeal pays an additional fee of twenty-five dollars. The Judge appoints a day of hearing. The applicant can appear in person or by counsel to state his case and file a written argument. Five days are allowed the opponent to put in an answer, and a similar period to the appelant for a closing reply.

Many important cases are brought before the Judges on appeal and the decisions of the Commissioner are not unfrequently reversed

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San Francisco:
Saturday Morning, March 5, 1864.

A MINING SCHOOL FOR SAN FRANCISCO.

In our last issue we promised a syllabus for a course of lectures such as might be appropriately adapted to a mining class, such as we would desire to see established in this city.

SYLLABUS.

I. Facts connected with the deposits of the useful minerals—such as would be valuable to the prospector — viz :—beds, strata or seams, stream works, lodes or mineral veins, flats, pipe veins, stock works, irregular masses, dislocation, and the rules for searching for the dislocated and best portion of a lead or deposit.

2. Preliminary research, shoading, trenching, costeaning.

3. Boring, as practical with different apparatus, with rods or rope, with various cutting and clearing implements.

4. Tools employed in mining, in hard and soft ground—blasting by various methods.

5. Principles of employment of mining labor.

6. Modes of gaining access to, and lighting subterranean cavities.

7. Levels and shafts, or the main openings to underground works ; driving and sinking.

8. Means of securing excavations, by timbering, masonry, tapping, and construction of dams.

9. Exploitation or the working away of veins and of strata.

10. Carriage, or transport of minerals through the underground roads.

11. Winding or raising in the shafts with the machinery and apparatus required.

12 Pumps and pumping machines.

13. Ventilation, its principles and practice ; natural ventilation, artificial introduction of moving power, distribution of air through workings.

14. Dressing of ores.

From the above syllabus it will be apparent that miners will be able to derive much practical information from the proposed lectures, upon points with regard to which the greater portion of our mining superintendents, we apprehend, are as yet but little informed. How very often do we hear stockholders complaining of the inability of their superintendents. Suppose a Board of Examiners should be formed, before whom all candidates seeking the positions of mining superintendents, might present themselves for examination ; and when found capable, be entitled to a certificate to that effect. Would not many directors be very likely to look for their superintendents and engineers from among those holding such certificates? and would not the consequence be a more skillful working of our mines, and more satisfactory reports with regard to their condition? Most certainly so. Skillful mining operations, except in rare instances, can never be hoped for in this country until our people or the government put their shoulders to the wheel and afford our miners facilities for acquiring that information so indispensable to a proper management of the hazardous and intricate calling in which they are engaged.

Most of our readers doubtless recollect the parallel drawn by the state geologist in his late address before the Mechanics Institute of this city, and published in this paper, with regard to the relative progress which has been made in legitimate mining in California and Australia. Who doubts the correctness of the assumption which was then made? Certainly no one who is conversant with the facts in both localities. Where else are we to look for the cause of difference. We have as rich and richer mines here than can be found in Australia. So long as mining in both countries was confined to the placers, we kept more than even pace with our distant rival ; but as soon as we came down to legitimate mining, where science and skill could be brought to bear, Australia immediately outdistanced , and is now ahead of us, although we have decidedly the advantage both in the average richness, extent and variety of our mines. The experience and knowledge of the English and German schools was early introduced into Australia and no man is placed in charge of a mine there who is not fully competent to fill his position. How is it with our mines ?

We wish to test this question, and will do so by putting the following query, which every capable mining superintendent should be able to answer, and would have to do so, to secure a position in any regular English mine. We state the question :—

"The workings on a copper lode, striking E. N. E., and dipping 80° N. N. W., are stopped by a cross vein, striking N. 15° E., and dipping 50° E. by S. In which direction and on what principle would you drive to find the other position of the lode?"

We should be pleased to receive answers to the above query from mining superintendents, since science can readily determine the question, before a blow is struck or a dollar expended. Of course we expect to find many who can give us a proper answer ; yet we apprehend but few, if any, can do so who have no other mining education than that which they have obtained at the mine, unaided by lectures and schools. We apprehend the most ready answer from a large majority of our miners, and one which may be found deeply graved in many of our mines, where they "have lost the lead," will be about as follows :—

"If the vein is lost, drift in one direction so many feet ; if you do not strike it there, drift the same number of feet in the other direction." "If you do not find it in the second drift, *levy another assessment*, and drift somewhere else !"

This is precisely the manner in which a large proportion of our mining operations have heretofore been carried on, and will continue to be conducted, until we raise a class of men educated to the business of mining. We can easily make a lawyer out of an unread shoemaker, or a first class machinist out of a farmer who has never seen a steam engine, than an officer, capable of taking charge of an important mining enterprise, out of either. Every man in life, who undertakes to direct the efforts of others, should first be educated for the position to which he aspires.

IRREPARABLE LOSS.—As we go to press the city is draped in mourning for the loss of one of the most distinguished and beloved of its citizens STARR KING IS DEAD ! A more unwelcome or melancholly announcement could scarcely be made. He will be followed to the grave to-morrow, by the great body of our citizens, who will present a concourse of as sincere mourners as ever attended one beloved and honored, to his final resting place.

A Formation of Black Oxide of Copper, with a Supposed Decomposition of Nitre.

We have been shown this week, in the laboratory of Mr. J. H. Churchill, of this city, some black oxide of copper, formed in the cold, by contact of that metal with nitre. Mr. Churchill thinks that a similar reaction must be met with in powder factories ; but it does not appear to have been observed. The contact of the materials had been maintained in a dry atmosphere, at a temperature varying from 55° to 65° F., for several weeks. The action of the air was probably effectually excluded. The nitre was mixed with sulphur ; and it will be curious to observe whether this is a case of the decomposition of a nitrate, forming almost the converse of the experiments of M. Millon and other French chemists, in which a nitrite is formed by "*simultaneous oxidation.*" Mr. Churchill proposes to repeat the experiment under conditions which will determine whether there is any formation of sulphuric acid. The oxide instantly colored ammonia a deep blue. The nitrate of potash employed was crushed from crystals and pure.

Since the above was in type the mixture after removal from the copper has been washed with distilled water and the filtered washings, tested with chloride of barium, yielded an immediate insoluble deposit of sulphate of baryta.

THE DROUGHT AND GOLD CROP.—Should the weather continue until past the period of the spring rains, more serious disaster will befall the State than is probably imagined. The loss of cattle and failure of the ordinary crops will not be the only damage which the State will sustain. There is another crop the probable loss of which is already beginning to be seriously considered. Unless we have a large quantity of additional rain, there is every probability that our hydraulic diggings will have to be entirely suspended during the coming summer. When it is considered that the yield of this class of mines reaches fully $25,000,000, per annum, the depreciation which their almost total failure would produce in our monthly shipments of treasure, may be approximately realized. We have no desire to be classed among the chronic croakers, but we hold it to be good policy to look the future squarely in the face, and shape our policy in accordance with what it may reasonably promise.

BREAKAGE OF THE DEL MONTE STEAM ENGINE.—On Friday afternoon of last week, while the Del Monte engine was doing its regular work at an average pressure of steam, the walking beam suddenly broke at the center, a portion of it still holding to the piston rod. As a consequence, the strain was instantly released from the cylinder, the motion of the piston rod suddenly increased, and the entire engine reduced to a complete wreck. The damage will be fully $10,000 and the delay cannot be less than two months. Various theories are asserted as the cause. It may have occurred from a variety of causes induced accidentally, through carelessness or by design. Foul play is more than hinted at. No one was present in the engine room at the time the accident occurred.

REESE RIVER BULLION. — Some idea of the amount of bullion now being taken out in Reese River, may be formed from the fact that 13,918 ounces of bullion passed through three assay offices, in that locality, during the month of January. Since that time the weekly yield of bullion in that region has largely increased, as will be noticed from the fact that 6,600 ounces were received at two of those offices only, during the first three days in February—a very encouraging increase.

THE CALIFORNIA TEACHER, for March, has also come to hand. This is a very valuable publication, and furnishes a most useful and important medium of communication between teachers and school officers, throughout the state. We trust it may become, as it should, a permanent institution.

MINING SHARE MARKET.

Stocks in the Mining Sharn Market still continue, ns a general thing, to decline, nnd transnctious nre confined chiefly to speculative shnres. A noticeable featnre of the present week will he the increase in the nnmber of dividend paying mines. The total amount of transactions for the week foot up at $1,268,389.65.

Ophir shares havn been in some request at nn improvement over last week. We notice sales of 147 shares at from $1,610@1,650 hnyer three days, closing at yesterday's board at $1,640. The receipts of bullion from this mine during the past month have been large.

Gould & Curry hns still further declined, with hut little business. Sellers were firm on Thursday nt $4,650@4,660. Bidders yesterday at 4,725, hut we hear of no transactions at that figure. A dividend of $125 per foot has been declared, paynhle to-dny.

Chollar has been somewhat moro in demand. It tonched $401 on Wednesday, but closed yesterday nt $375, with hut few sellers. It is reported thnt hetter ore has been struck in their third gallery.

Dauey has still further improved in business, nt fluctnating rates. Under the influence of favorahle reports from the mines it went up to $125 on Saturdny lnst, but opened on Monday at $175, reached $220 on Tuesday, from which figure it gradually declined to $180@190 at yesterdny's board. This company have made a shipment of $15,000 in bullion the past week.

North American has formed the chief feature of the week, upwards of 2,000 shares having changed hands since our lnst issne, at largely fluctuating rates. Closing on Saturdny nt ahout $145, it suddenly dropped to $85@90, at the opening of the hoard on Monday, hut suhsequently recovered to $120 and closed at $110, which continued nhout its average figure to the close of husiness, yesterday. The present affairs of this company appenr to he enveloped in much mystery. Various rumors are afloat, with regard to pending negotintions and uncertainties of title. In the absence of anything reliahle we would recommend operators to "go slow."

Lady Bryan. Business in these shares har largely increased the past week, with a quiet market. We notice sales of 2.308 shares nt from $40@50, with a marked improvement toward the close of the week. The work of development is steadily progressing at this mine.

Burning Moscow has materially improved, with an increased demand. Opening on Monday at $90, it rapidly ndvnnced to 112½ Wednesday, and closed yesterday at $108, hnyer 30 days.

Nevada, Justice Ground, still cintinues to attract considerable attention, and has met with another important advance fully equal to that noted last week. Opening on Monday at $175 @ 185 it gradually advanced, improving each day and closed yesterday firm at $225.

Lafayette has been more in demand, remaining firm at ahout last week's figures from $19 @ 22. We note sales of 415 shares.

Uncle Sam has still further advanced, and found hnyers on Wednesday at $825, an advance of $75 over last week. Having been much troubled of late at the mine, with water, the superintendent is now putting in a 10-inch pump; 450 feet of suitahle pipe are now at the mine.

Independent, G. H., has heen inactive the past week. It was offered at $45 without finding buyers.

Overman opened on Saturday last at $430@450, from which figure it gradually decliued to $400 on Wednesday, since which it has heen innctive.

We quote Yellow Jackett at $950@975, seller 60; Potosi has found hnyers at $1,225; Baltic at $160@175; Bullion at $75.

Empire Mill and Mining Co., is held firmly nnd has no sellers. This company has deelared a dividend of $40 per foot, payahle on Monday.

Segregated Crown Point is nlso held firmly. We notice a single transaction of 12 shnres nt $900 pnr foot, buycr 12 days.

Bujazet hns fonnd huyers the past week nt $50. A three day's crnshing from this mine, last week, yicldcd about $400, in bullion. This was from nverage rock. Choice rock has goun up to a high figure.

Harmon, El Dorado county, has not sustained its figures of last week. It closed on Wednesday at $29@32. The directors have declared nnother dividend, payahle on the 12th.

Pride of the West has still further ndvnnced, from $85 to 95, nnd is held firmly at the lntter figure. Five dollars per share will he dishursed to stockholders to-day, nnd regular monthly dividends are promised herenfter. The yield of bullion for February has heen $22,000.

Buckeye has heen much in request, nt nn important advnnce. It has gone up since our last quotations from $16½ to 25, nt which figure it is firmly held. This mine is out of debt and presents much encouragement to the adventurers.

North Potosi has heen in active demand, manifestiug a decided improvement towards the close of yesterday's husiness; 28 shares changed hauds yesterday afternoon at $70.

We quote Sierra Nevada at $85; Charles Cany, nt $15; Burnside nt about $15; Gov. Nye, nt $6½; Knickerbocker $39@40; Desert, $10; Blue Ledge, $16½; Adriatic, $9; Crockett, con. $9; Mt. Davidsou, $2; Sacramento & Meredith, $50; Baltimore American, $41; Michignn, $25; Imperial, $162½; Crocket $18; Garibaldi, $10; Victor Hugo, $20; Grey Eagle $27½; Central America, $5; Meloncs, $42; Eureka, $29; Caledonia Tunnel, $24; Belmont, $11½; San Carlos, $13; Santa Rosa, $8; Kohler Bros, $9¼; Hawkeye, $24.

Real del Monte, still continues an important feature in the market; 1778 shares having changed hands at from $35@47½, buyer 30 days, closing nt the latter figure at lnst evening's board, with a decided upward tendency.

We quote other Esmeralda stocks as follows: Antelope, $205; Corhet, $12; Wide West, $22; Coso, $5½.

We quote Humboldt stocks:—Sheba firm at $115; De Soto, $33; Ben Franklin, $6½; Ethan Allen, $3;

Reese River:—Ruby, $17½; Eclipse $20; Dacotah, $3; Grey Eagle, $22½.

Owens River:—East Lynn, $19; Golden City, $10.

Lady Franklin.—We have received some very fine specimens of ore from the Lndy Franklin Copper Co.'s vein, near the Zinc House, Nevada county. This company has recently heen incorporated. They are uow down 60 feet on their veiu, and still pushing downwards with an improving lode. There is every prospect of their developing a valuable mine. Success to their efforts.

The American Exchange and Review, a magazine miscellany of useful knowledge aud general literature, puhlished hy Whiting & Co., at 521, Chestnut street, Philadelphia. The January numher has just come to hand, and is well filled with iuteresting aud useful miscellany.

The Pacific Monthly for March, has been laid upon our tahle. This number opens with "California Pictures—around San Francisco," containiug illustrated descriptions of noted localities. It is a new and interesting featurc in this magazine. "Shimah" is nlso continued, as well the "California Wife." We understand that Miss Lester, the Editress, leaves this city on Monday, on a tour through Souora, San Andreas, Murphy's, Jackson, Ione City, and neighboring locnlities, where she will give "readings," nnd receive subscribers for the "Pacific Monthly."

Contents for February.

No. 6—Feb. 6.—Lecture on Mining and its Relations to Civilization and Progress—by Professor J. D. Whitney, delivered before the Mechanics' Institute; A Heavy Casting; Coal vs. Anthracite; Mining Gossip—Ophir Dividends, Liberality vs. Litigation, Sharp Transactions and other Items; Miners' Laboratory; Owensville Mines; Esmeralda Correspondence; Patent Department; Ho for the Mines! The Country Business of San Francisco; Mining Share Market; Washoe Stock Market—Sales, and prices bid and asked in Virginia and Gold Hill; Record of New Incorporations; To Prevent Dampness in Brick Buildings; Sales by the San Francisco Stock and Exchange Board, San Francisco Board of Brokers, and the Pacific Board of Brokers; Prices Bid and Asked; Chippings, and Miscellaneous Items.

No. 7—Feb. 13.—Ventilation of Mines—with Illustrations; Correspondence—Murphys, Calaveras county; The Great Desert and its Mines; Esmeralda Correspondence; California Coal, Iron and Copper; Mining Gossip—by Frank Wardell; Summary of Mining News—from various counties; An Extraordinary Winter; Mechanical Department—Saw Mill, Copper Coating, and other articles; Exposure of Fraud upon Science; Patents and New Inventions; State Polytechnic School; Late E. B. Goddard; Mining Share Market; Washoe Stock Market; The Antilla and her Cargo; Is there silver this side of the Mountains; Questions Answered; Chippings; Stock Sales; Incorporations, etc.

No. 8—Feb. 20.—Hints to Prospectors; Ventilation of Mines—continued with illustration; Correspondence—Calaveras Mines; Humboldt county, N. T.; From the Humboldt Mines; Santa Fe District, Reese River; From Austin, Reese River; More About Reese River; Mining Gossip; Real del Monte Meeting; Mining Paragraphs; The American Mechanic; Government Experiments in Using Hydro-Carbon Oils for Generating Steam; Patent Department: A Mining School Within Our Reach; A Significant Mining Advertising Bill; Signs of the Times; Gas Explosion in a California Mine; Stock Reports; etc.

No. 9—Feb. 27.—Ventilation of Mines—Editorial; A Gas Cooking Stove—illustrated; Traveling Correspondence—San Andreas, Calaveras county; A Trip to Surprise Valley; From the Humboldt Mines; Mechanical Department—A New Engine for the Gould & Curry Mill, A New Electro-Magnetic Engine; Insect Power; Professor Whitney's Address Before the Legislature; A Mining School for the Day; Summary of Mining News—From Yuba county, Sierra, Plumas, Tuolumne, Esmeralda, Humboldt, Reese River, Virginia; Mining Gossip—Real del Monte, Such is Life, After Them, Cannot Agree; Virginia City; Machinists' Tools; Ingenious Piece of Mechanism; Patent Department—Improvement in Generating Steam, A New Crushing Battery, Nail Machine, Improved Saddle; "Chippings;" Washoo Stock Boards; Mining Share Market; Washoe Stock Reports; Record of New Incorporations in San Francisco and Nevada Territory; Stock Sales in San Francisco, for the week, by the Stock and Exchange Board, the Pacific Board of Brokers, and the Stock Exchange; Report of Prices Bid and Asked; A Correct Idea; New Use for Alcoholic Drinks.

Copper Ore from San Diego.—We have received a box of copper ore from Louis Rose, San Diego, and taken from the "Enciuetos Copper Mine," near that place. These specimens were taken from a shaft only twelve feet deep. The gaugue rock is a soft micaceous slate, quite freely impregnated with copper sulphurets of a very rich character. It is very possible, nnd indeed probahle, that our correspondent may find the sulphurets better concentrated at a depth of, say 80 or 100 feet. The ore as it is, can be made vnluahle only hy running it through concentrating machinery. The nature of the ore is such as to reuder its concentration very easy. Thn mine will probahly prove a valuahle one when fairly opened. Our correspondent writes that several other veins have heen located in the neighhorhood. Tho country has heen hut very little explored. A gold placer was discovered a few months ago, where some 40 or 50 miners are now at work, nnd doing well. Machinery was expected soon to he put up on a quartz vein, which appears to he very rich.

Scale in Steam Boilers.—We have received a sample of "scale" tnken from a steam hoiler near Virginia City, with a request that we would nnalyze it, and suggest some remedy ns a prevcutive to its formation. But little benefit would he derived from its analyzation; while the cost would range from $25 to $100. With regard to its formntion, the only sure preventive is in the use of pure wnter, which may always be obtained by condensing the steam and using it over. A new condenser, designed to remedy the evil complained of, has recently heen invented in this city, and will be found noticed in our present issue under the "Patent Department" heading. Mr. G. Venard, of this city, also ndvertises in our columns a "Patent Steam Boiler Cleanser," which, it is claimed, operates as an "nntidote for scales and incrustation formed in boilers," which is highly spoken of, and which is extensively used in Europe, hy French and English engineers.

New Map.—Mr. Arthur W. Keddie has in process of prepnration a new map of California and Nevadn Territory, compiled from Government maps of the State and from the various county maps, which latter are prepared hy the severnl county surveyors nnd their assistants. The map will be on a scale of twelve miles to the inch. It will he published by Warren Holt, Montgomery street.

The Mining and Smelting Magazine for Jannary. This is an English publication devoted to mining, quarrying and metallurgy, with their associated arts and sciences. William Gibbs, puhlisher, London.

THE NORTHERN GOLD FIELDS.

Our Northern gold fields are rapidly assuming a position of great importance. These mines are located mainly upon the upper waters of Snake River, one of the branches of the Columbia, and mostly upon a branch of the Snake known as Boise River, equal in volume to the Yuba, and some 200 miles in length. Upon this river are located Fort Boise, Boise City, and Bannock City, each growing mining centers. The Malheur, which is also coming into considerable notice, is another affluent of the Snake emptying into that river nearly opposite the Boise. The Owyhee is also another important mining stream, emptying just south of the Boise and on the opposite side. Just to the east of the Owyhee, and running nearly parallel with it, is Jordan Creek, about the head waters of which is a comparatively new mining region just coming into notice. This creek is erroneously laid down on all the maps of this region, yet published. It is sometimes represented as emptying into the Owyhee and sometimes into the Snake river. Neither is correct. It *sinks* near the margin of a lake, which has not yet been represented on any map, but which has been named by its discoverer Lake Jordan, who was also the discover of Jordan Creek. These mines are spread over a region of country about 250 miles square, which last year sent to this city about $7,000,000 in gold dust. These mines have been worked under great disadvantages, and there is good reason to believe that their yield for the coming year will be nearly or quite doubled.

The mines are located about 250 miles north east of the Humboldt mines. They may be approached by trail from Yreka, or by the Honey Lake and Humboldt road, continuing from the latter by trail. A good wagon road will soon be opened to this region from California, direct, by way of Yreka. The Dalles *Mountaineer*, of Feb. 12, says that W. Lord, Esq., who had just arrived at Cañon City, reports that there is a great excitement there about silver mines, several rich leads having been struck in the immediate neighborhood of the town. Everybody was going in on "feet," and all were thoroughly persuaded that they had a second Washoe at their door. Cañon City is located on a small stream running westward, and about one hundred miles west of Fort Boise.

About 100 miles south of Cañon City is Pueblo Valley, on the western border of which, and covering an area of 15 or 20 square miles, great numbers of gold and silver bearing quartz leads have been discovered, which have already been prospected to an extent sufficient to give them a decided value. They crop out boldly and carry a heavy body of mineral. A few working tests have been made which compare favorably with anything heretofore found in the Territory. The character of these ores is very similar to those of Reese River. They are very easily worked, and selected lots have reached as high as $1,000 to the ton.

All of the mining region above described appears to abound with veins of quartz, as well as placers, which are being rapidly taken up and developed. The machinery for a first-class quartz mill, designed for the Owyhee country, is now on the way from San Francisco. This mill belongs to a company in which Mr. Jordan, the original discover of the Owyhee mines, is the principal stockholder.

According to the Dalles *Messenger*, Mr. William Spurr, a gentleman who has spent several months in prospecting the Malheur country, arrived at the Dalles recently, bringing with him numerous specimens of silver and copper ore, taken from newly discovered leads on the Malheur and John Day Rivers. Quartz rock taken from the Jackson lead, on the Malheur, has assayed at Cañon City, from $1,000 to $2,000 per ton. From the Brunswick lead, also on the Malheur, rock has been taken that proved fabulously rich in gold. From the Humboldt lead, on the John Day, Mr. S. has with him specimens of copper ore, which appear to be rich in that metal. Mr. Taylor, an old Washoe miner, who accompanied Mr. S. in his prospecting tour, pronounces the rock taken from the Jackson lead to be vastly richer than that taken from the famous Ophir, in the Washoe country. A company has already been formed for the purpose of working the Jackson lead, and Mr. S. will bring with him the necessary milling machinery to work the claim to advantage.

MOUNT DIABLO COPPER MINES.—Good results are being received from these mines. We have seen some very good ore taken from the Keokuk at a depth of seventy feet. As the work upon this vein progresses, it seems to be rapidly conecntratiug. We also learn that work upon the Mechanics, and other mines in the neighborhood, is being rapidly pushed, with encouraging results.

RETURN OF A COMET—A supplement to the January number of the *American Journal of Science* gives a letter from Mr. Watson, of the observatory at Ann Arbor, Michigan, in which that gentleman states that he discovered on the 9th of January, a comet which he believes to be a return of the celebrated comet of 1810, which so astonished Europe during the wars of Napoleon.

LATE accounts from Australia state that the Otago gold fields, are still yielding largely. Bushranging in New South Wales was unabated.

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HAS REMOVED HIS OFFICE TO

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NOTICE.

The Office of the Wide West Mining Company

Is Removed to No. 113 California street, San Francisco,

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San Francisco, January 1st, 1864. 1-1f

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PUBLIC EXCHANGE,

Conducted on the same fair business principles that characterize similar institutions in Europe and America, an urgent necessity in this city.

The public are therefore informed that a suitable building has been erected, at 612 and 614 Montgomery St., in which will be held Daily Sessions for the sale of Stocks, Bonds, Securities, Specie, etc., under the following Board of Directors, and subject to the following Rules and Regulations:

Board of Directors.

GEORGE W. DART, President.

WALTER SPARROW,	E. H. WILSON,
JOSEPH CLOUGH,	R. O. STURTEVANT,
HENRY WILLIAMS,	D. J. CULLAHAN,
E. PAVALLIER,	EDWARD FLANAGAN,
THOMAS WALLACE,	J. DE STA. MARINA,
M. G. ELMORE,	E. W. LINSLEY.

Rules and Regulations.

1. The business of the Exchange shall be managed by a Board of Thirteen Directors, to be elected annually, and to whom application for membership shall be made. Any question or issue raised touching contracts, made at the Board, their validity or meaning, shall be referred to a committee of five, for investigation and final decision.

2. The Sessions of the Board shall be from 12 to 1 P. M., and from 3 to 4 P. M., each day, Sundays excepted.

3. Only members of the Exchange shall offer Stocks, etc., for sale.

4. The public may bid upon and purchase any Stocks, Bonds, Securities, Specie, etc., that may be offered for sale.

5. Buyers of Stock who are not members must either make a deposit of Ten (10) per cent. of the purchase money at the time of sale, or have their contracts endorsed by a member.

6. Should any member or party refuse to fulfill a contract entered into by him at a Session of the Board, he shall thereafter be debarred from all privileges of the Exchange, at least until he shall have specially performed such contract.

Commissions on Sales

Of United States, State, County and City Bonds; Railroad, Steamboat, Telegraph, Gas, and Water Stocks; Certificates, Bills of Exchange, Treasury Notes, Specie, etc., one-half of one per cent.

Commission on Mining Shares:

Sale at $1 up to $10	$0 25 per foot
Sale at $10 up to $25	50 per foot
Sale at $25 up to $50	1 00 per foot
Sale at $50 up to $100	1 50 per foot
Sale at $100 up to $200	2 50 per foot
Sale at $200 up to $400	5 00 per foot
Sale at $400 up to $600	6 00 per foot
Sale at $600 up to $800	7 50 per foot

From $800 to $3,000 per foot, one per cent. Anything above $3,000 per foot, three-quarters of one per cent. 7v8-1f

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Stock Reports.

SAN FRANCISCO STOCK BOARDS.

Sales by the San Francisco Stock and Exchange Board, the Stock Exchange, and the Pacific Board of Brokers.

[Revised for the Mining and Scientific Press.]

Saturday, February 27, 1864.

S. F. STOCK AND EXCHANGE BOARD.

20 shares Coso at $5½.
43 do Charles Cany at $18.
50 do Adriatic at $8½.
5 do Pride of the West at $85, seller 30 days.
10 do Pride of the West at 85.
111 do Mount Davidson at $2.
1 do Wide West at $22.
10 do Real del Monte at $40.
7 do Real del Monte at 41¼.
5 do Real del Monte at 42.
20 do Real del Monte at 40, s 30.
90 do Real del Monte at 45
25 do Real del Monte at 45, regular way.
20 do Real del Monte at 42½, s 30.
15 do Real del Monte at 43, buyer 30 days.
70 do Real del Monte at 41.
10 do Real del Monte at 41¼.
20 do Real del Monte at 42, b 30.
20 do Real del Monte at 40, s 30.
30 do Real del Monte at 43, b 30.
25 do Real del Monte at 42½, b 30.
5 do Real del Monte at 40.
20 do Real del Monte at 42½, b 30.
10 do Real del Monte at 40½.
10 do Real del Monte at 40, s 5.
60 do Lady Bryan at $50.
50 do Lady Bryan at 50, b 30.
20 do Lady Bryan at 48, b 30.
10 do Lady Bryan at 47½.
190 do Lafayette, G. H., at $20.
3 do Uncle Sam, at $750.
3 do North American at $140.
5 do North American at 145.
20 do North American at 147½.
55 do North American at 150.
10 do North American at 155, b 30.
10 do North American at 152½, b 5.
10 do North American at 150, s 30.
10 do North American at 150, r w.
65 do North American at 150, b 30.
10 do North American at 147, s 30.
3 do North American at 145.
20 do North American at 146, s 30.
10 do North American at 146½.
20 do North American at 147.
63 do North American at 145.
30 do North American at 145.
20 do Rnckeye at $18.
50 do Buckeye at 21, b 30.
8 do Buckeye at 19.
130 do Buckeye at 20, b 30.
10 do Michigan at $25.
5 do Overman at $430.
8 do Overman at 470.
16 do Imperial, G. H., at 162½.
20 do Crockett Consolidated at $18.
5 do Bullion, G. H., at $75.
10 do Bullion, at at 74.
10 do Gov. Nye at $7.
20 do Daney at $230 per foot.
20 do Daney at 235 per foot, b 30.
20 do Daney at 230 per foot.
40 do Daney at 235 per foot, b 30.

AFTERNOON SESSION.

12 do Gould & Curry at $4700 per foot.
20 do Daney at $200.
20 do Real del Monte at $44, b 30.
9 do Real del Monte at 40.
40 do Real del Monte at 43, b 30.
20 do Real del Monte at 42.
20 do Real del Monte at 41.
10 do Real del Monte at 43¼, b 30.
10 do Real del Monte at 40, s 30.
45 do Real del Monte at 41½.
10 do Victor Hugo at $20.
10 do Central America at $6¼.
20 do Lady Bryan at $45.
25 do Lady Bryan at $46, b 30.
75 do Lady Bryan at 42.
25 do Lady Bryan at 43.
60 do Lady Bryan at 42½.
15 do Lady Bryan at 43.
10 do Lady Bryan at 43¾.
20 do Lady Bryan at 44.
5 do Baltic at $172½, b 30.
10 do North American at $145.
20 do North American at 147½, b 30.
10 do North American at 140, s 30.
10 do North American at 149, b 30.
20 do North American at 144.
5 do Buckeye at $17¼.
20 do Lafayette at $21.
20 do Lafayette at 21½.

PACIFIC BOARD OF BROKERS.

5 do Real del Monte at $49¼.
20 do Real del Monte at 49.
5 do Real del Monte at 53, b 30, n d.
5 do Real del Monte at 48½.
15 do Real del Monte at 49.
40 do Real del Monte at 48.
5 do Real del Monte at 52¼, b 30, n d.
15 do Real del Monte at 47½.
25 do Real del Monte at 47.
27 do Real del Monte at 40.
30 do Real del Monte at 41.
10 do Real del Monte at 40, s 30.
10 do Burnside at $16½.
10 do Harmon at $42½.
13 do Charles Cany at $18.
50 do Lady Bryan at $50, b 30.
70 do Lady Bryan at 50, b 30, n d.
15 do Lady Bryan at 47.
8 do Caledonia Tunnel at $25.
5 do Caledonia Tunnel at 26.
40 do Central America at $5.
30 do Gov. Nye at $8.
10 do Belmont at $11¼.
650 feet Rubicon at 18cts.

STOCK EXCHANGE.

5 do Real del Monte at $45.
15 do Real del Monte at 44½.
5 do Real del Monte at 44.
15 do Real del Monte at 43¼.
5 do Real del Monte at 43.
30 do Real del Monte at 41.
5 do Real del Monte at 41¼.
5 do Real del Monte at 40.
10 do East Lynn, O. R., at $18¾.
40 do East Lynn, O. R., at 19.
2 do Burnside at $16.
50 do Golden City (unmss.) at $10.
10 do Grey Eagle, R. R., at $22½.
10 do Harmon at 52, b 30.
10 do Charles Cany at $17½.

S. F. Stock and Exchange Bd. sales....$355,626 00
Pacific Board of Brokers' sales..... 17,542 40
Stock Exchange sales..... 6,012 00

Total sales of the day by all Boards,.. 379,180 40

Monday, February 29.

S. F. STOCK AND EXCHANGE BOARD.

12 shares Ophir at $1620 per foot.
12 do Ophir at 1610 per foot.
4 do Gould & Curry, at $4700 per foot.
20 shares Chollar at $310 per foot, s 30.
20 do Chollar at 320 per foot, s 30.
75 do Daney at $175.
12 do Daney at 185 per foot, b 30.
40 do Daney at 195 per foot.
2 do Overman at $415.
1 do Yellow Jacket at $910.
2 do Potosi at $1225 per foot.
5 do Sierra Nevada at $87.
20 do Burning Moscow at $90.
30 do Burning Moscow at 95, b 30.
10 do Burning Moscow at 95, r w.
10 do Charles Cany at $17.
15 do Burnside at $15.
10 do Pride of the West at $95, b 30.
50 do Real del Monte at $40.
50 do North American at $90, s 30.
140 do North American at 85, s 30.
20 do North American at 85.
20 do North American at 90.
10 do North American at 95, b 30.
15 do North American at 100, b 30.
30 do North American at 105, b 30.
40 do North American at 100.
5 do North American at 102.
10 do Baltic at $200, b 30.
80 do Rnckeye at $19.
5 do Nevada, Justice Gronnd, at $185.
10 do Nevada, Justice Ground at 180.
10 do Nevada, Justice Gronnd at 175, s 10.
20 do GoV. Nye at $6.
5 do Gov. Nye at 6½.
10 do Knickerbocker at $40.
20 do Lafayette, G. H., at $24.
10 do Lafayette, G. H., at 25, b 30.
40 do North Potosi at $50, r w.
10 do North Potosi at 50, r w.
32 do Lady Bryan, at $42½.
20 do Desert at $10.

AFTERNOON SESSION.

40 do Daney, at $220 per foot, s 30.
40 do North American, at $115.
30 do North American, at 118.
20 do North American, at 120.
10 do North American, at 119.
10 do North American, at 110, s 30.
10 do North American, at 117½.
40 do North American, at 105, s 30.
20 do North American, at 112.
10 do North American, at 107, s 30.
10 do North American, at 110, s 30.
10 do Lady Bryan, at $43.
25 do Lady Bryan, at 41.
15 do Lady Bryan, at 42.
12 do Lady Bryan, at 42½.
10 do Lady Bryan, at 41¼.
10 do Buckeye at $15¼.
30 do Buckeye at 21.
10 do Burning Moscow at $100.
10 do Burning Moscow, at 105, b 30.
20 do Real del Monte, at $41.
30 do Pride of the West, at $90.
10 do Pride of the West at 92½, b 30.
20 do Eclipse, R. R., at $7.
7 do Michigan at $85.
50 do Lafayette, G. H., at $25, b 30.
10 do Lafayette, G. H., at $28.
3 do North Potosi at $50.
18 do Blue Ledge at $12.

STOCK EXCHANGE.

5 do Real del Monte at $41.
5 do Blue Ledge at $11.
15 do Caledonia Tunnel at $26.
5 do North American at $95.
5 do North American, at 100.
5 do Knickerbocker, G. H., at $39.
5 do Knickerbocker, G. H., at 40.
5 do Antelope at $26.
50 do Corbett, Es. at $12.
3 do Burning Moscow at $95.
10 do Adriatic at $8.

PACIFIC BOARD OF BROKERS.

10 do Burnside at $15.
10 do Burnside at 17, b 30.
20 do North American at $85.
25 do North American, at 80, s 30.
5 do North American, at 90, b 30.
30 do North American, at 100, s 30.
55 do Burnside at $15.
10 do Real del Monte at $38, s 30.
35 do Real del Monte at 40½.
5 do Real del Monte at 38¼, s 10.
10 do Real del Monte at 41.
10 do Real del Monte at 40.
10 do Caledonia Tunnel at 27½, b 20, n d.
10 do Caledonia Tunnel at $26½.
5 do Lady Bryan, at $41½.
10 do Lady Bryan, at 42½, b 3.
16 do Crockett at $15.
16 do Crockett at at 17½, b 30.

S. F. Stock and Exchange Bd. sales.....$347,042 25
Stock Exchange sales..... 4,010 00
Pacific Board of Brokers' sales..... 9,785 25

Total sales of the day, by both Bds,... 350,837 50

Tuesday, March 1.

S.F. STOCK AND EXCHANGE BOARD.

50 shares Daney at $215 per foot.
20 do Daney at 225 per foot, b 30.
12 do Chollar at $400 per fool, r w.
40 do Burning Moscow at $110.
15 do Burning Moscow, at 108.
10 do Burning Moscow, at 112, b 30.
10 do Burning Moscow, at 110, b 30.
20 do Mt. Davidson Tunnel at $2.
10 do Sacramento and Meredith at $50.
10 do North Potosi, at $55.
10 do North Potosi, at 57½.
10 do North Potosi at 60.
5 do North Potosi at 62½.
10 do North Potosi at 62½, r w.
10 da North American at $114.
80 do North American at 113.
20 do North American at 111.
30 do North American at 110.
20 do North American at 112½, b 30.
20 do North American at 105, s 30.
10 do North American at 108.
41 do North American at 107.
10 do North American, at 105, s 20.
25 do North American, at 105, s 30.
10 do North American, at 105, r w.
10 do North American, at 107½, s 30.
31 do Charles Cany at $15.
50 do Nevada, Justice Ground, at $150, s 30.
10 do Nevada, J. G., at 170.
15 do Pride of the West at $95, b 30.
5 do Pride of the West at 97, b 30.
10 do Pride of the West at 96, b 30.
10 do Pride of the West at 92¼.
10 do Pride of the West at 92¼, r w.
10 do Pride of the West at 90, s 30.
10 do Pride of the West at 93, b 30.
70 do Lady Bryan at $44.
25 do Lady Bryan, at 40½, r w.
65 do Lady Bryan, at 40½.
20 do Lady Bryan, at 42, b 30.
20 do Lady Bryan at 42½, b 30.
30 do Lady Bryan, at 41, r w.
10 do Lady Bryan at 39, s 30.
100 do Buckeye at $19.
20 do Buckeye at 21, b 30.
25 do Real del Monte at $40.
10 do Real del Monte, at 39½.
20 do Lafayette, G. H., at $23, b 30.
18 do Lafayette, G. H., at 22½, b 30.

AFTERNOON SESSION.

40 do Daney at $205 per foot, s 30.
20 do Daney at 205 per foot.
5 do Overman at $400.
12½ do Pride of the West at $90.
20 shares Pride of the West at 90, s 30.
40 do North American at $106, r w.
40 do North American at 105, r w.
10 do North American at 106.
10 do North American at 100, s 30.
20 do North American at 87½, s 60.
70 do North Potosi at $65.
20 do North Potosi at 68.
10 do North Potosi at 72½, b 30.
30 do Real del Monte at $40.
30 do Lady Bryan at $39.
5 do Lady Bryan, at 39½.
30 do Lady Bryan at 40.
40 do Lady Bryan at 40½.
20 do Lady Bryan at 41.
10 do Lady Bryan at 41, r w.
25 do Lady Bryan at 42, b 30.
20 do Lady Bryan at 39, s 30.
70 do Lady Bryan at 40, s 30.
30 do Lady Bryan at 40½.
20 do Lady Bryan at 41, s 30.
5 do Burning Moscow, at $102½.
40 do Burning Moscow, at 110, b 30.
5 do Burning Moscow at 105.
30 do Rnckeye at $22, b 30.
8½ do Buckeye at 19½.
15 do Nevada, J. G., at $200, b 30.
10 do Baltimore American at $42.
10 do Baltimore American at $42, r w.
10 do Rullion at $75.
10 do Lafayette, G. H., at $22.
30 do Lafayette, G. H., at 33, b 30.
4 do Wide West at $22.

STOCK EXCHANGE.

5 do Harmon, at $43½.
15 do Harmon at 40.
5 do Harmon at 40½.
5 do Bujazet & Goldra Era at $50.
5 do Gov. Nye at $6½.
1 do Real del Monte, at $40.
10 do Lady Bryan at $39½.

PACIFIC BOARD OF BROKERS.

4 do Gould & Curry at $4700 per foot.
40 do Daney at $220 per foot.
9 do Burning Moscow at $110, b 15, n d.
10 do Garibaldi at $10.
9 do Baltimore American, at $44.
10 do Harmon at $39.
20 do Grey Eagle at $27½.
5 do Grey Eagle at 25, b 30.
15 do Grey Eagle at 27½, b 30.
10 do North American at $100.
10 do Burnside at $14.
10 do Burnside at 13¾.
20 do Kit Carson at $5.
10 do Lady Bryan, at $39.
20 do Lady Bryan, at 40.
10 do Sheba at $110.
10 do Real del Monte, at $40.

S. F. Stock and Exchange Bd. sales....$129,456 00
Stock Exchange sales 1,736 50
Sales by the Pacific Board of Brokers.. 8,538 50

Total sales of the day, by all Boards,. 139,731 00

Wednesday, March 2.

S. F. STOCK AND EXCHANGE BOARD.

8 shares Chollar at $370 per foot.
20 do Chollar at 375 per foot.
60 do Chollar at 380 per foot, b 30.
4 do Overman at $400 per foot.
1 do Yellow Jacket at $875 per foot.
50 do Burning Moscow at $110, b 30.
10 do Burning Moscow at 104.
10 do Burning Moscow at 100, s 30.
10 do Burning Moscow at 105, s 30.
5 do Burning Moscow at 108.
45 do North Potosi at 70.
20 do North Potosi at 68, r w.
10 do North Potosi at 68.
10 do Blue Ledge at $14.
20 do Buckeye at $20¼.
20 do Buckeye at 22, b 30.
55 do Buckeye at 21.
50 do Ruckeye at 25, b 30.
10 do Nevada, J. G. at $200.
20 do Baltic at $165.
10 do Baltic at 160.
20 do Baltic at 165, b 30.
10 do North American at $100.
32 do North American at 102½.
30 do North American at 100, s 30.
20 do North American at 102½, r w.
10 do Burning Moscow at $102½.
10 do North American at 101, s 30.
10 do Real del Monte at $41, b 30.
45 do Real del Monte at 38.
35 do Real del Monte at 40, b 30.
10 do Real del Monte at 38½.
10 do Real del Monte at 37½.
10 do Real del Monte at 37.
20 do Real del Monte at 35, s 30.
5 do Real del Monte at 37½, b 30.
10 do Melones at $42½, b 5.
30 do Lady Bryan at $42.
100 do Emreka at $29.
5 do Lafayette, G. H., at $20.
50 do Mount Hope at $3.

AFTERNOON SESSION.

20 do Chollar at $385 per foot, b 30.
20 do Chollar at 388 per foot, b 30.
40 do Chollar at 400 per foot, b 30.
55 do Buckeye at $24
50 do Burnside at $15, b 30.
10 do Blue Ledge at $16.
10 do Burning Moscow at $112½, b 30.
15 do Baltimore American at 42.
5 do Burning Moscow at 109.
5 do Overman at $401.
15 do Overman at 400.
5 do Uncle Sam at $825.
5 do Baltimore American at $41.
5 do Baltimore American at 41, r w.
5 do Baltimore American at 42.
10 do North Potosi at $67, r w.
10 do North Potosi at 67.
10 do North Potosi at 66.
10 do North Potosi at 65.
120 do Lady Bryan at 45.
30 do Lady Bryan at 44½.
20 do Lady Bryan at 44.
40 do North American at $110, b 30.
10 do North American at 105, s 30.
10 do North American at 104, s 30.
40 do North American at 112½, b 30.
20 do North American at 114, b 30.

STOCK EXCHANGE.

12 do Real del Monte at $40.
10 do Real del Monte at 37½.
100 do Sierra Consolidated at $1½.
10 do San Carlos at $13.
50 do Ruby, R. R., at $17½.
10 do Ruby at 17.
20 do Barinoa at $32.
10 do Caledonia Tunnel at $24.
10 do Coso at $5.

PACIFIC BOARD OF BROKERS.

50 do Ethan Allen, Humboldt, at $3.
10 do Lady Bryan at $41.
10 do Lady Bryan at 42, r w.
20 do Daney at $200.
1 do Imperial, G. H., at $160.
20 do North American at $102, r w.
20 do Santa Rosa at $4½.
50 do Santa Rosa at 5.
50 do Santa Rosa at 5, 1 d.
10 do Real del Monte at $36.
10 do Real del Monte at 36½, r w.
4 do Sheba at $115.
20 do Ben Franklin at $6.
25 do Ben Franklin at 6¼.
9 shares Baltimore American at $45, b 20, n d.

S. F. Stock and Exchange Bd. sales.....$179,107 50
Stock Exchange sales..... 3,098 00
Sales by the Pacific Board of Brokers.. 9,647 50

Total sales of the day, of all Boards,.. 181,853 00

Thursday, March 3.

S. F. STOCK AND EXCHANGE BOARD.

12 shares Gould & Curry at $4650 per foot.
4 do Gould & Curry at 4660 per foot.
120 do Ophir at $1620 per foot.
5 do Yellow Jacket at $975 per foot, s 10,
5 do Yellow Jacket at 950 per foot.
40 do Daney at $200 per foot.
5 do Sierra Nevada at $85.
8 do Burning Moscow at $110.
25 do Burnside at $13½.
20 do Burnside at 14.
20 do Burnside at 15, b 30.
2 do Imperial at $160.
18 do Imperial at 162½.
20 do Real del Monte at $35.
10 do Real del Monte at 36.
20 do Real del Monte at 35, s 30.
10 do Real del Monte at 37.
10 do Real del Monte at 38.
10 do Lady Bryan at $45.
30 do Lady Bryan at 44.
30 do Lady Bryan at 44¼.
20 do Lady Bryan at 45.
10 do Lady Bryan at 47, b 30.
25 do Lady Bryan at 45½.
30 do Lady Bryan at 45, s 30.
10 do Lady Bryan at 48, b 30.
10 do Lady Bryan at 46.
10 do Lady Bryan at 48, b 30.
10 do Lady Bryan at 49, b 30.
5 do Lady Bryan at 47.
5 do North Potosi at $62½.
25 do Blue Ledge at $16.
10 do North American at $109, s 3.
20 do North American at 110, r w.
15 do North American at 110.
20 do North American at 100, s 60.
10 do North American at 110, s 30.
10 do North American at 112.
20 do North American at 115.
25 do Lafayette, G. H., at $19.
20 do Santa Rosa at $6.
10 do Caledonia Tunnel at $22.
20 do Buckeye at $30, b 30.
10 do Nevada, J. G., at $215, s 10.
10 do Nevada, J. G., at 225, r w.
5 do Baltimore American at $12.
19 do Pride of the West at $95.
15 do Bullion, G. H., at $74.

AFTERNOON SESSION.

140 do Daney at $190 per foot.
17 do North Potosi at $60.
5 do Real del Monte at $40.
40 do Real del Monte at 39.
25 do Real del Monte at 40.
5 do De Soto at $33.
10 do Lady Bryan at $49.
20 do Lady Bryan at 48½.
10 do Lady Bryan at 48.
10 do Lady Bryan at 47½.
20 do Lady Bryan at 49½, b 30.
10 do Lady Bryan at 48.
20 do Lady Bryan at 50, b 30.
25 do Caledonia Tunnel at $23½, b 30.
20 do Baltimore American at $41.
5 do North American at $109.
10 do North American at 110, b 4.
5 do North American at 105.
10 do North American at 100, s 30.
10 do North American at 100, s 80.
10 do North American at 105, s 30.
5 do North American at 106.
10 do Adriatic at $8½.
10 do Bullion, G. H., at $75, b 10.
5 do Bullion, G. H., at 76, b 30.

STOCK EXCHANGE.

10 do Lafayette, G. H., at $19.
20 do Lady Bryan at $44.
10 do Seneca at $15.
5 do Kohler Bros. at $9¼.
12 do Real del Monte at $39.
3 do Real del Monte at 39¼.

PACIFIC BOARD OF BROKERS.

6 do Real del Monte at $37.
1 do Real del Monte at 35.
5 do Real del Monte at 36.
10 do Caledonia Tunnel at $27¾, b 30, n d.
10 do Lady Bryan at $44, r w.
10 do Lady Bryan at 47½, r w.
10 do Lady Bryan at 48½, r w.
20 do Blue Ledge at $16½.
10 do Santa Rosa at $7.
10 do Lady Bryan at $47¾.
5 do North American at $110½.
10 do Lady Bryan at $52½, b 30, n d.
30 do Central America at $5.
3 do Burning Moscow at $110.
10 do Lady Bryan at 49, b 30.
10 do Lady Bryan at 39, b 30.
10 do Lady Bryan at 48.
12 do Seg. Crown Point at $900 per foot, b 12.
10 do Sheba at $115 per foot, r w.

S. F. Stock and Exchange Bd. sales $115,005 00
Sales by the Pacific Board of Brokers.. 18,012 00
Sales by the Stock Exchange..... 1,562 00

Total sales of the day, by all Boards 134,579 00

Friday, March 4.

S. F. AND EXCHANGE BOARD.

60 do Daney at $180 per foot.
4 do Chollar at $275 per foot.
30 do North Potosi at $60.
30 do North Potosi at 65, r w.
10 do North Potosi at 64.
25 do Adriatic at $9.
10 do Real del Monte at $40.
35 do Real del Monte at 41.
5 do Real del Monte at 36, s 30.
15 do Real del Monte at 41 50.
10 do Real del Monte at 42 50, b 30.
10 do Real del Monte at 42.
60 do Buckeye at $25.
5 do Burning Moscow at $108, b 30.
45 do Burning Moscow at 106, b 30.
5 do North American at $101.
20 do North American at 102 60.
5 do North American at 101.
30 do North American at 108, b 30.
5 do North American at 105.
10 do Nevada, J. G., at $225.
80 do Lady Bryan at $48.
20 do Lady Bryan at 48 50.
8 do Lady Bryan at 49.
1 do Lady Bryan at 50.
10 do Bullion, G. H., at $77, b 30.
5 do Pride of the West at $95.
15 do Blue Ledge at $16.
10 do Caledonia Tunnel at $21, s 30.
10 do Buraside at $14, b 30.

AFTERNOON SESSION.

50 do Real del Monte at $42 50.
95 do Real del Monte at 45.
10 do Real del Monte at 44.
20 do Real del Monte at 47 50, b 30.
5 do Real del Monte at 44½.
9 do North Potosi at $65.
128 do North Potosi at 70.
10 do North Potosi at 65, s 30.
16 do Lady Bryan at $19.
65 do Lady Bryan at 51, b 30.

20 shares Lady Bryan at 42, b 25
20 do Lady Bryan at 52, b 30.
15 do Lady Bryan at 50.
20 do Lady Bryan at 50, r w.
20 do Lady Bryan at 49 50
30 do Lady Bryan at 49 50, r w.
10 do North American at $103.
15 do North American at 103 50.
20 do North American at 108, b 30, n d.
5 do Daney at $180 per foot.
10 do Daney at 190, b 30.
10 do Bullion at $75, b 30.
10 do Bullion at 72, s 30.
1 do Ophir at $1650, b 3.
2 do Ophir at 1640.

PACIFIC BOARD OF BROKERS.

20 do Real del Monte at $39, s 30.
5 do Real del Monte at 40.
5 do Real del Monte at 44, 3 d.
10 do Real del Monte at 43 50.
10 do Lady Bryan at $48.
5 do Lady Bryan at 47 50.
5 do Lady Bryan at 49.
15 do Lady Bryan at 50, 4 d.
10 do Lady Bryan at 50.
10 do North American at $102 50.
10 do North American at 101 50.
20 do North American at 115, b 30, n d.
10 do North American at 103, s 10.
18 do Charles Cany at $15.
35 do Santa Rosa at $8.
20 do Santa Rosa at 8 50.
10 do Bullion at $76.
10 do Caledonia Tunnel at $22, s 30.
20 do Caledonia Tunnel at 115, b 30, n d.
40 do Central American at $4.
10 do Central American at 3¾.
10 do Recota, R. R., at $3.
20 do Blue Ledge at $16.
5 do Blue Ledge at 1650.
10 do Eclipse, R. R. at $20.

STOCK EXCHBR.

10 do Burning Moscow at $100, s 30.
5 do Real del Monte at $42.
15 do Real del Monte at 43.
5 do Real del Monte at 44.
15 do Real del Monte at 45.
15 do Real del Monte at 39.
13 do Lady Bryan at $50.
10 do Lady Bryan at 44.
10 do Hawkeye at $21.
5 do Blue Ledge at $16.
10 do Coso, at $5.
2 do Kohler Bros. at $91¼.
5 do Lafayette, R. R., at $19.
5 do Seneca, at $15.

S. F. Stock and Exchange Bd. sales.... $65,000 00
Sales by the Pacific Board of Brokers. 12,234 50
Sales by the Stock Exchange 4,974 25

Total sales of the day, by all Boards,. 82,208 75

Total sales of the week, by all Boards $1,268,339 65

Gold in New York.

Monday Feb 29..... 158¼
Tuesday March 1..... 158
Wednesday, March 2..... 160.
Thursday March 3.....160¼@160¾

Legal Tender Notes.

San Francisco, Friday March 4th.....64 per cent.

CREDIT IS WHAT WE ASK.—In our last issue we made some remarks respecting the sale of the "Mexican Mine" which were copied "verbatim" by the *Morning Call* and not the least particle of credit given to us for the same. We trust that our contemporary, in future will not forget to do the right thing by us when clipping from our columns.

THE AMERICAN JOURNAL OF SCIENCE AND ARTS, for January, has been received, and contains a varied and interesting table of contents. This is the only purely scientific journal published on the continent, and is one of which every American should be proud. Published every two months for $5 per year, at New Haven, Connecticut.

BULLION FROM WASHOE.—During the fourteen days ending February 29th, 14,560 lbs of Bullion valued at $421,808 were shipped from Virginia City, by Wells, Fargo, & Co.

AN Italian Professor says that hydroeyanic acid produces urea by its decomposition—at all events, some acid, which he had put away for four months, produced chrystals having all the characteristics of urea.

We have received No 1 of the enlarged MINING AND SCIETIFIC PRESS published by Dewey & Co., San Francisco. It is greatly improved, and gives promise of an excellent, able and reliable journal.—*Marysville Daily Appeal.*

Mr. A. T. Dewey, a Journalist of experience, has become associated with Messrs. Ewer and Smith in the proprietorship and conduct of this paper. It inaugurated the new year by doubling its size and other improvements, and is now a first class journal for miners and mechanics, as well as for the general reader.—*Sacramento Daily Bee*

This journal comes to us this week with a new head and enlarged to the full size of the *Scientific American* published in New York—sixteen pages. Those who take an interest in mining, industry and art should not fail to read the prospectus of the PRESS, which may be found in our advertising columns, and those who may destre to see copies, intending to subscribe, will have specimens sent free on application by letter to the office of publication.—*Mountain Messenger, La Porte.*

We have received the first number of the eighth volume of this interesting paper. It is now under the control of friend Dewey, and has been enlarged to sixteen pages. We commend it to miners, stock dealers, and others taking an interest in the development of the mineral lands of this State. It can be had for $5 a year, and if preserved will make two volumes of interesting matter, containing 416 pages each.—*Red Bluff Independent*

Two Good Canvassing Agents can find profitable employment by calling at this office. None but active and competent men need apply.

San Francisco Stock and Exchange Board.—Prices Bid and Asked.

			Saturday.		Monday.		Tuesday.		Wednesday.		Thursday.		Friday.	
WASHOE STOCKS.	FEET.	SHARES.	VAL.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.
Ophir	1,000	16,800	300	1,620	1,630	1,640	1,624	1,595	1,630	1,595	1,640	1,615	1,650	1,610	1,650
Gould & Curry	1,200	1,800	200	4,600	4,725	4,650	4,700	4,600	4,700	4,625	4,700	4,655	4,690	4,725	4,800
Savage	800	800	2,000	—	3,100	2,800	3,000	—	3,000	—	2,975	—	3,000	—	3,000
Chollar	1,400	5,600	280	295	—	317½	400	375	400	365	375	375	395	360	375
Potosi	1,100	2,800	500	—	1,300	1,000	1,225	1,000	1,300	1,000	1,300	—	—	—	—
Hale & Norcross	800	800	500	675	800	670	—	—	—	—	—	—	—	700	1,000
Sierra Nevada	3,000	3,000	500	88	90	85	87	84	89	75	85	85	87½	83	87½
Daney	2,000	800	50	225	229	195	205	200	215	190	192	195	200	182½	190
Burning Moscow	4,000	4,000	500	81	—	92½	95	103	107	107	108	108	110	101	102½
North Potosi	2,000	2,000	250	54	55	47	50	61	62½	67½	70	61	62½	63	65
Charles Cany	1,800	1,800	30	19	—	12	15	15	18	14	18	—	—	—	—
Iowa	1,200	1,200	1,000	—	—	—	—	—	60	—	50	—	50	—	—
El Dorado	1,000	1,000	500	—	—	20	45	—	58	—	52½	—	62½	25	50
Norton	1,000	1,000	50	—	—	—	6	—	6	1	4	—	3½	—	—
Burnside	2,800	2,800	500	15	16	15	—	—	15	—	11¾	13	14	12¼	14
Adriatic	2,700	2,700	100	—	8¾	5	8	7½	8½	7½	9	8¾	10	9	9½
Pride of the West	1,400	1,400	100	85	87½	80	92½	87½	90	90	94	93	95	93	96
Imperial	184	4,000	500	162½	165	—	170	160	170	—	165	160¾	162½	155	—
Crown Point	600	1,200	100	700	—	—	—	700	—	—	1,400	—	—	—	—
Manhattan	—	—	—	—	—	—	8	—	—	—	7	—	8	—	8
Seneca	—	—	—	10	17	—	—	—	18	—	—	—	—	—	—
Mt. Davidson tun'l.	1,000	1,000	200	2	2¼	1¼	—	2	2	—	—	—	—	—	2
Caledonia Tunnel	—	—	—	24	29	24	—	24	—	—	24½	21¼	23	22	22½
Bajazet & G. Era	4,000	4,000	300	—	—	—	—	37½	62½	—	—	—	—	—	70
Cedar Hill tunnel	—	1,000	100	—	2	—	—	—	—	—	—	—	—	—	—
Gold Hill Qu'tz Mill	—	—	—	—	300	—	—	—	300	—	300	—	—	—	—
ESMERALDA.															
White West	1,400	1,400	2,600	22	23	22	23	20	23	20	24	20	25	20	25
Antelope	1,200	1,200	500	180	—	175	—	200	—	—	260	215	250	—	275
Esmeralda	1,600	1,600	1,000	—	—	—	—	—	—	—	—	—	—	—	—
Real del Monte	4,000	4,000	400	40½	41	40	41	39	39½	36	37½	38½	40	41	42
Utah	1,600	1,600	250	20	25	22	24	20	23	—	25	19	23	20	22½
Silver Hill	3,000	3,000	500	—	—	10	12	—	—	—	10	—	11	—	—
Nevada	600	1,200	250	—	—	—	6	—	—	—	—	—	—	—	—
Falls of Clyde	6,000	6,000	100	—	—	—	—	—	2	—	2	—	—	—	—
Bamboo	600	600	500	—	47½	—	—	—	—	—	45	—	45	—	—
Crockett	—	—	—	17½	18	—	16	—	—	—	—	15	—	—	16
Federal Hope	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—
Jenny Lind	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
COSO.															
Josephine	9,600	4,800	2,500	—	—	50c	1	—	1¾	—	1¾	—	1	—	2
Willow Springs	2,700	2,700	100	—	3	—	3	—	2¾	—	3	—	2¾	—	4¼
Coso	2,600	3,600	600	5	5½	—	7	—	6	—	6	2	6	—	6
COPPER.															
Napoleon	2,700	2,700	600	35	60	45	50	—	50	46	—	45	55	45	70
Josephine	—	—	—	—	—	—	8	—	8	4½	9	4	6	—	6
CALIFORNIA.															
Laurel Hill	—	—	—	—	3	—	—	—	—	—	—	—	—	—	—
Rhodes Diggings	—	—	—	—	—	—	10	—	—	—	—	—	—	—	—
Fellowes	2,500	2,500	100	—	—	—	—	—	—	—	—	—	—	18	—
Maxwell	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rock River	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60
Eureka	—	—	—	—	—	—	32½	—	32	29	30	29	30	29	30
HUMBOLDT STOCKS.															
De Soto	1,980	1,980	100	25	40	—	42½	—	40	32	39	25	38	33¼	39
Great Basin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Record of New Incoporations.

The following is a record of the names of the companies, location of the claims, and the names of the Trustees mentioned in the articles of incorporation, filed in the County Clerk's office, in this city, since our last report:—

Keystone G. & S. M. Co.—Lander county, N. T.; R. Battersby, W. Batisman, J. A. Hamer.

Golden Era G. & S. M. Co.—Lander county, N. T.; J. S. Wall, S. DeWolfe, Wm. F. Dyer, W. T. Stanford.

Coyle G. & S. M. Co.—Amador county, Cal.; Charles Norris, John Finley, M. L. Scammon.

Consolidated Bayard Taylor G. & S. M. Co.—Humboldt co., N. T.; Darius Williams, Jos. W. Wilburn, Isaiah Dixon.

Hidden Copper M. Co.—Butte county, Cal.; W. Hodgden, C. W. Reed, W. H. Bryan, C. E. Smith, H. F. Williams.

Scott and Perigood Tunnel Co.—Humboldt county, N. T.; Caleb T. Fay, J. McHenry, A. J. Gladding, Geo. W. Dam, Victor B. Post.

The Grosch Consolidated M. Co., San Francisco district, A. T., filed its certificate of increase of stock from $5,000,000 to $10,000,000.

Imperial G. & S. M. Co.—San Francisco district, A. T.; Rodney Clark, M. M. Johnson, J. Chapman.

Lady Bryan First Southerly Extension S. M. Co.—Storey county, N. T.; James Smith, James W. Wood, F. Leudenon, J. R. Beard, Jas. Paterson.

NEVADA TERRITORY.

We gather from the Territorial papers the following names of mining companies which have recently filed papers of Incorporation in Nevada Territory:—

Isabella G. & S. M. Co.—Sulphur Springs district; Ed. Crowell, M. W. George, Samuel Stewart.

Grant G. & S. M. Co.—Indian Spring district; S. B. Hunt, J. B. Brown, C. N. Blake, Hartey Fay, M. J. Healey.

McDonald G. & S. M. Co.—Gold Hill district; Caleb Burbank, J. W. Titus, T. C. Smith.

King David M. Co.—Blue Sulphur Springs district; H. F. Bowley, H. Beckwith, Geo. W. Durain, A. C. Chapman, C. E. Cloyes.

Schuylkill M. Co.—Gold Hill district; J. C. Saunderling, O. C. McDonald, Robert Apple, D. Schroder, W. H. Bremer.

American Tar M. Co.—H. J. T. Scheel, Bernhard J. Scheel, E. O. Phelps.

Imperial Coal Co.—Sullivan district; C. L. Ross, W. Moser, F. Chappellet, H. Huguet, J. W. Wilson.

Keystone G. & S. M. Co., No. 2.—Gold Hill district; Wm. Justice, A. Fox, A. Thompson, E. M. Cesna.

Centreville Co.—Gold Hill distrtet; J. H. Latham, O. W. Sawyer, S. D. R. Stewart.

Colossus G. & S. M. Co.—Virginia district; A. J. Smith, Wm. B. Marsh, B. F. Beageley.

Middlesex M. Co.—Gold Hill district; Wm. Arrington, H. B. Summers, S. D. Falls, G. H. Chapman, S. W. Carr.

Kate G. & S. M. Co.—Gold Hill district; J. W. Epley, C. McVicar, J. Sutter, J. Glavery, H. Huguet.

Marshal Ney Consolidated Co.—Devil's Gate district; J. McCarty, F. A. Sawyer, M. Burger.

Western G. & S. M. Co.—Desert district; N. A. Guild, B. E. Green C. C. Green, E. E. Rice, Geo. T. Finn.

Professor Whitney's Lecture.—Extra copies of the MINING AND SCIENTIFIC PRESS of February 6th, 1864, containing the lecture of Prof. J. D. Whitney, (State Geologist,) on "MINING AND ITS RELATIONS TO CIVILIZATION AND PROGRESS," can be obtained by calling at this office.

Correspondence from competent writers is respectfully solicited upon all topics of interest to the general readers of the PRESS. Persons possessing a knowledge of new discoveries, curiosities, important improvements or developments, who have not the time or experience to write their observations elaborately, can send us the substance in a few words, and we will care for the rest. The real name of the author must be received, which will be kept confidential.

REAL DEL MONTE
Consolidated G. & S. M. Company.

The Special Meeting

OF THE STOCKHOLDERS OF THE ABOVE COMPANY, HAS BEEN POSTPONED UNTIL SATURDAY EVENING, MARCH 5th.

By order of the Trustees,
1t W. P. WILLARD, Secretary.

Worth Considering.—Advertising has proved the medium of success to many of the most prominent business men of the world. Merchants, Inventors, Builders, Patentees, Manufacturers, Foundrymen, Machinists, and, in fact, all who wish to call the particular attention of the Mining, Professional, Mechanical and Industrial members of the community to their business, should not fail to advertise in the MINING AND SCIENTIFIC PRESS. The circulation of this paper is extensive, and has a wide range, reaching the most intelligent readers in every mining settlement of importance on the coast. A large number of copies are also sent East. Our terms are reasonable. "Live and help live" we believe to be a sensible motto.

W. O. ANDREWS,
NOTARY PUBLIC,
—AND—
Commissioner of Deeds for Nevada Territory.
Office, Montgomery Block, 630 Montgomery Street,
10v8-2m SAN FRANCISCO.

E. A. HYDE,
Commission & Stock Broker,
AND MEMBER OF
The "Washoe Stock Exchange"
10v8-1m Virginia, Gold Hill, N. T.

H. C. KIBBE,
Mining Secretary,
Commissioner for Nevada Territory,
542 Sacramento Street, cor. Montgomery, (Armory Hall.)
10v8-tf SAN FRANCISCO.

ORE BAGS
Of various Sizes and Qualities
FOR SALE IN BOND OR DUTY PAID, BY
10v8-1m CROSS & CO., 614 Battery St.

McDONALD'S OYSTERS.
AT THE OLD STAND, NEW WORLD MARKET, CORNER CLAY and Leidesdorff Streets. The whole front of the Old Market has been rebuilt and rejuvenated, and fitted up in fine Style, with private rooms for ladies, where they can procure the best of refreshments, at all hours—day or night. Parties of Gentlemen and Ladies can be supplied with the best of everything the market affords.
The best of MUTTON CHOPS and PORTER HOUSE STEAKS always on hand. Hot tea and Coffee at all hours. 9v8-m

STOCK EXCHANGE.
Mining Stocks to be Advertised and
PLACED ON STOCK LIST, MUST BE HANDED INTO OFFICE NO. 2, STOCK EXCHANGE,
Before 5 o'clock P. M. (9v8-tf) M. G. ELMORE, Sec'y.

Pacific Mail Steamship Company.
THE FOLLOWING STEAMSHIPS WILL BE DESPATCHED FROM SAN FRANCISCO IN THE MONTH OF MARCH, 1864.
March, 3—GOLDEN CITY.....R. H. Pearson, Commander.
March, 12—ORIZABA.....E. S. Fransworth, Commander.
March, 23—CONSTITUTION,.....J. T. Watkins, Commander.
From Folsom street Wharf, at nine o'clock A. M., punctually,
FOR PANAMA.
Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company.
A. B. FORBES, Agent P. M. S. Co.,
jl Cor. Sacramento and Leidesdorff Sts., San Francisco

"CHIPPINGS."

Prof. Agassiz prophesies that Cape Cod will in time be entirely washed away by the action of the sea. The work is going on very rapidly.

The Pacific Railroad is in course of construction from Leavenworth, Kansas, at the rate of a mile a day.

Some pathologists claim that diptheria has been occasioned by the introduction and use of kerosene oil.

Death comes to a good man to relieve him; it comes to a bad one to relieve society.

The editor of an eastern paper says that many of his patrons would make good wheel-horses—they hold back so well.

The Beautiful.—Though we travel the world over to find the beautiful, we must carry it with us, or we find it not.

What a wouderful thing is starch, and what a pity it is we cannot dip some weak minds in it.

Curran described a politician as "one who, buoyant by putrefaction, rises as he rots."

A contemporary thinks the Empress Eugenie's insuring her life to the extent of £200,000 the best fashion she ever set.

A new cathedral is about to be erected in Havana, built wholly of iron, the estimated cost of which is $100,000.

The Virginia papers say that travel to Reese River is rapidly on the increase.

The waters of the Sacramento river at Sacramento stand at about 3 feet 6 inches above low water mark, having risen none of any consequence since the rainy season commenced.

The ship Governor Landon cleared last week for Liverpool, with a cargo consisting of 35,092 100-lb. sacks wheat, and 7½ tons copper ore, valued at $56,817.61.

Ground has been broken at St. Paul, Minnesota, for a theater building, of polished stone, to cost $50,000, capable of seating 1,300 people.

The Yreka *Journal*, of the 27th, says that the telegraph line will be in complete working order to Portland in about a week.

The Wide West mill, which recently stopped running for a few days, has resumed operations. It is now employed on Garibaldi rock.

The Central Pacific Railroad Company has received another engine called the "Pacific."

Mount Hood Smoking.—The Portland (Oregon) *Union*, of latest dates received, says: "Yesterday there was a considerable volume of smoke issuing from the summit of Mount Hood. It was distinctly seen by persons in this city, who say that there can be no doubt that it was smoke and not clouds."

Those who complain that our navy has accomplished nothing will do well to make a note of the fact that, since the war broke out, 1,328 blockade-runners have been captured, of which number there were 547 schooners, 479 steamers, 131 sloops, 30 brigs, 26 barks, 15 ships, and about 100 smaller craft.

The city of London, in ten years, has increased in population 441,753; New York, 290,104 souls, or 56.37 per cent., and Philadelphia 222,484 inhabitants, or 65.43 per cent. The average number of houses during ten years built in London was 5,349; in New York, 1,568; and in Philadelphia, 2,805. London has been settled 2,000 years, New York 249 years, and Philadelphia 178 years.

Restoration.—The human body, in so advanced a state of decomposition as to be entirely unrecognizable, can now be so restored, by chemical means, as to present an almost completely natural appearance. This process was lately practiced with success in London.

Great Breakwater.—The greatest artificial harbor in the world is that of Cherbourg, in France. It was a roadstead open to the sweep of the ocean swells until 1783, when DeCessart, an engineer, proposed and commenced the construction of its famous breakwater. This consists of a sea-wall 12,700 feet in length, which also stands 15 feet above the highest tides.

Plant Sun Flowers!—One of the most scientific officers of the United States Survey has recorded his testimony, that the common sun flower planted upon the low bottoms of the Mississippi river, absorbs the miasm of those unhealthy localities, and rids the neighborhood of miasmatic fevers. As the seed can be had at any of our seed stores, costs a mere trifle, is easily planted, makes a somewhat ornamental plant, and produces a crop valuable for fowls, we say, let every one plant a row of sun flowers on the lower side of their garden.

Miscellaneous Advertisements.

MINERS' FOUNDRY
—AND—
MACHINE WORKS,
First street, between Howard and Folsom streets,
SAN FRANCISCO.

EVERY DESCRIPTION OF IRON AND BRASS MACHINERY, the **Best** and **Most Economical**, manufactured in the State of California, will be furnished with dispatch at the Miners' Foundry and Machine Works, as:

Steam Engines and Boilers, Flour, Saw and Quartz mill machinery, Mining Pumps, Amalgamators, Retorts, Etc., Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections, designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities will be afforded ample facilities, free of cost.

All parties desiring accurate and highly finished drawings and Superior Machinery, at most reasonable rates are cordially invited to call before contracting elsewhere.

HOWLAND, ANGEL & KING.
San Francisco, February 23, 1863. tf.

PALMER, HANSCOM & CO.,
GOLDEN STATE IRON WORKS,
No. 19, First Street, San Francisco,
Furnish Castings and Machinery of all kinds,
Also Genuine White Iron Shoes and Dies.
PALMER, HANSCOM & CO.

To Quartz Miners.

KNOX'S IMPROVED AMALGAMATING PAN
WITH PALMER'S PATENT STEAM CHEST.

THE ABOVE COMBINATION SECURES THE MOST COMPLETE amalgamation of the precious metals of any process now known. By it steam is introduced in the most effective and economical manner, while it is peculiarly adapted to the catching of floating gold and silver, known to be otherwise lost. Made exclusively by
PALMER, HANSCOM & CO.,
Golden State Iron Works,
Nos. 19 and 21 First Street, San Francisco.

The public are informed that Letters Patent have been granted the undersigned upon Steam Chest False Bottoms for the inside of Amalgamating Pans or Tubs, and are cautioned against making, buying, using or selling the same without his consent.
tf W. A. PALMER.

Sacramento Iron Works.

I STREET, BETWEEN FIRST AND SECOND STREETS,
SACRAMENTO.

GOSS & LOMBARD.....Proprietors.

MANUFACTURERS OF STEAM ENGINES, MACHINERY FOR Saw, Flour and Quartz Mills, Horse Powers, Windmills, Car Wheels, Suction and Force Pumps, Cast Iron Rights and all kinds of House Castings, at reduced prices. Gas pipe of all sizes, and all kinds of Brass and Iron Steam Fittings, with Hemp and Rubber Packing, constantly on hand. Wrought Iron Work and all kinds of Brass Castings done to order.

We are the Sole Agents in this State for the celebrated Worthington Pump, an assortment of which we keep constantly on hand. We have just received from the East a fine assortment of Cast Iron Fence Patterns, suitable for yards, balconies, cemetery lots or graves. We shall continue to do our work in the best manner and at the LOWEST CASH PRICES, hoping thereby to receive a just share of public patronage. 1-3m

JOHN P. GALLAGHER..... .....JOSEPH H. WEED.

GALLAGHER & WEED,
BRASS AND BELL FOUNDRY
And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING, DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, MADE to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks, also brass Padlocks and Shop Locks of various patterns, on hand and made to order.
☞ Particular attention given to casting Rudder Braces and Ship Work in general.
☞ All Jobs promptly attended to.—Prices moderate. ☜
No. 125 First Street, opposite Minna, next door to Pacific Foundry.
[Removed from Oregon street, between Front and Davis.]
j2tf

LEWIS COFFEY. J. S. RISDON.

LEWIS COFFEY & RISDON,
Steam Boiler & Sheet Iron Works.

THE ONLY EXCLUSIVELY BOILER MAKING ESTABLISHment on the Pacific Coast, owned and conducted by Practical Boiler Makers. All orders for New Work, the repairing of Old Work, executed as ordered, and warranted as to quality.

Old Stand, corner Bush and Market Streets. Opposite Oriental Hotel, San Francisco, Cal.

Vulcan Iron Works Company.
P. Torquet,.....Manager.
Steam Engine Builders and Boiler Makers,
Iron Founders and General Engineers,

PUMPING, HOISTING, MINING AND QUARTZ-CRUSHING Machinery. Shoes and Dies of the hardest iron. Russia Iron Pinched Serpentine Steamboat Machinery, Saw, Flour and Sugar Mills. High and Low Pressure Boilers of all styles. Jonval and other Turbine Water Wheels with latest improvements.
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PORTLAND BOILER WORKS.
MOYNIHAN & AITKEN,
BOILER MAKERS AND SHEET IRON WORKERS,

N. B. All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission, between Beal and Fremont Sts., San Francisco.
fy29-tf

WANTED,
Gold Quartz suitable for Cutting Jewelry.
By **FRONTIER & DEVIERCY.**
437 Pine Street, San Francisco.
au3ltf.

Must be seen to be Appreciated!

THE FLORENCE!

A GREAT IMPROVEMENT!

This Celebrated
NEW SEWING MACHINE
IS ACKNOWLEDGED TO BE
THE BEST IN THE WORLD!

IT MAKES FOUR DISTINCT STITCHES!
IT FEEDS THE WORK EITHER WAY!
WILL SEW OVER THE HEAVIEST SEAMS,
WITHOUT CHANGE OF TENSION!
IT SELDOM, IF EVER, DROPS A STITCH!
IT SEWS WITH SILK OR COTTON THREAD EQUALLY WELL!
IT RUNS LIGHTLY, SEWS RAPIDLY AND IS ALMOST NOISELESS!
IT DOES THE HEAVIEST OR FINEST WORK WITH EQUAL FACILITY!
IT MAKES A STICH ALIKE ON BOTH SIDES OF THE FABRIC, USING ONLY HALF THE QUANTITY OF THREAD NECESSARY FOR THE OLD FASHIONED CHAIN-STICH MACHINES!

WHILE IT POSSESSES ALL THE GOOD QUALITIES OF others, and has many advantages over any and all of them, the FLORENCE is sold at corresponding prices with other first-class Machines. We
WARRANT EVERY MACHINE
To be all that we claim for it, and will give a WRITTEN WARRANTY if required.

AGENTS WANTED in all the principal cities and towns on the Pacific coast.
Send for Circulars and samples of sewing.

DON'T BUY A SEWING MACHINE UNTIL
YOU HAVE
SEEN "THE FLORENCE!"

SAMUEL HILL, General Agent.
111 Montgomery street, between Bush and Sutter, San Francisco, California. j2-3m

A. S. HALLIDIE & CO.,
WIRE ROPE MANUFACTURERS.
Established 1857.
Office, No. 412 Clay street—Works, North Beach,
SAN FRANCISCO.

After seven years' use throughout the State of California and the Pacific Coast generally, we can confidently recommend Wire Rope for
HOISTING FROM DEEP MINES,
GUY ROPES FOR DERRICKS, &c.,
STANDING RIGGING FOR SHIPS,
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SASH CORD FOR WINDOW SASHES,
ETC., ETC., ETC., ETC., ETC., ETC.

It being Cheaper, Stronger, Lighter and More Durable than any other kind of Rope, and not stretching or shrinking by atmospheric changes.

MINING COMPANIES, by using it for Hoisting Purposes, save 66 per cent. on their outlay for other ropes.

Wire Fencing Strand,

For fencing large parcels of land—permanently, economically and expeditiously. Manufactured in any length desired.

Pamphlets containing weight, strength and price, forwarded free application to the Manufacturers.

WIRE SUSPENSION BRIDGES AND AQUEDUCTS

We are prepared to erect, of any span and capacity, and take pleasure in referring those interested to the many structures of this kind built by us in California, Oregon and British Columbia, of span from 200 to 400 feet. 3-3m

WHEELER'S
Amalgamating and Separating Pans

IT IS ACKNOWLEDGED BY ALL WHO HAVE EXAMINED THE principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.

The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metal arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the triturating, this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.

Where these Pans have been introduced and operated by the side of others on sands from the same vat, the Wheeler Pans have uniformly gained a large percentage of metals, over its competitors, as well as a still larger percentage in the amount of work performed.

*** These Pans may be seen in daily operation at the Miners, Foundry, on First street, San Francisco, where all interested are invited to call and examine for themselves.
no16-tf ZENAS WHEELER.

To Quartz Miners.

ALL PERSONS INTERESTED IN MINING MACHINERY ARE invited to call at Donahue's Foundry and examine my improved Amalgamator. It is unquestionably superior to any thing now known for amalgamating Silver and Gold. It works 1000 pounds at a time, and will amalgamate over three tons a day. By the motion of the revolving muller, the pulp is drawn through its centre and passes under it, between the grinding surfaces, to the circumference; from whence it passes again over the muller to the centre, through the holes and between the grinding surface to the circumference as before. Thus a constant circulation of the pulp is kept up, bringing the particles of ore again and again under the muller, and reducing the whole mass to an impalpable powder.

No quicksilver lies between the surfaces to be ground, but at the circumference and centre of the pan where the metal must pass through it as the pulp circulates.

A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S. Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.
sep21

To Druggists and all Prescribing for Neuralgic and Nervous Cases—Your attention is called particularly to the efficacy of WATTS' NERVOUS ANTIDOTE for the above. Feelings of humanity, independent of pecuniary considerations, would prompt you to recommend it in all cases of Neuralgic Pains, Face Ache, from defective teeth, and the General Wasting Away and Debility of the Nervous System, if you could have the assurance that this was what it is purported to be—THE GREAT RELIABLE TRANQUILIZER AND RESTORER OF THE SYSTEM. It has been repeatedly prescribed in cases of excessive drinking, on the verge of Delirium Tremens, and even while laboring under its distressing influence, with astonishing results. It contains no preparation of Opium or Valerian, and is never accompanied with the unpleasant sensation always experienced after taking successive doses of them. It is also the best Soothing Syrup in use. Patients have taken Watts' Nervous Antidote many months in succession, and experienced no unpleasant effect whatever—while the same continued use of many other popular remedies has completely shattered the system.

For sale, Wholesale and Retail, by SAMUEL ADAMS, U. S. Drug Store, corner of Pine and Kearny Streets, San Francisco. 6v8-2m

A New and Valuable Book.

PROCESS OF SILVER AND GOLD EXTRACTION, BY GUIDO Kustel, Mining Engineer and Metallurgist, former manager of the Ophir Works, &c.; 350 pages octavo Illustrated.

This admirable work has met with the highest commendations from the Press and Scientific men, as a clear and able exposition of the science as practised in California and Nevada Territory. It is written for the people in good plain English and finely Illustrated.

Price—post paid—Cloth $6; Sheep $7.

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Booksellers, Importers and Publishers,
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Steam and Mechanical Engineer. Designs furnished, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc., etc. Agent for McKenzie's Patent Cupola and Blower.

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First Street, San Francisco.
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MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.

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FREDERICK MANSELL,

Mechanical & Architectural Draughtsman,

No. 422 California street, corner of Leidsdorff.

Drawings of Models made for parties applying for patents at Washington or London. mar23-tf.

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California Lift and Force Pump,

WITHOUT VALVES OR PACKING,

Suitable for Mines, Fire Engines, Wrecking or Irrigating. This is the Cheapest, Lightest and most Durable, and least liable to get out of order of any Pump yet invented.

ALL SIZES.

Capable of throwing from ONE HUNDRED to FIVE THOUSAND Gallons per minute. For sale by

C. H. HARRISON, Phœnix Oil Works,
je15-tf 517 Front Street, San Francisco.

Mining Laws and Forms

JUST PUBLISHED, BY H. H. BANCROFT & CO., BEING A compilation of the Statutes of this State relating to Mining Corporations, Assessments, etc., with a digest of decisions of the Supreme Court and Forms of the Incorporation of Companies. Compiled by H. H. Congdon. 12mo., flexible cloth. $1,50. For sale at all the Bookstores. sep14-tf

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JAMES LONGSHORE,

TRUNK AND VALISE MANUFACTURER, 397 SANSOME ST., under Tehama House. Trunks and Valises, Wholesale and Retail. Fine Sole Leather Trunks, Valises, and a fine assortment of LADIES' TRUNKS constantly on hand. Trunks covered and repaired. an10

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As we have every facility for producing these beautiful pictures, in all their different varieties, we have reduced the price to

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The Publication of Mining Notices in the MINING & SCIENTIFIC PRESS obtains for them a more general circulation, among parties directly interested, (in this city and throughout the mining districts of the coast, than can be secured through any other medium. State laws require their publication but once a week, and Secretaries and Trustees can make a material saving of costs to stockholders by ordering their advertisements inserted in the journal most properly entitled to receive their patronage—the weekly MINING AND SCIENTIFIC PRESS.

CHARTER PERPETUAL.

PHŒNIX
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Of Hartford, Conn.,

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Cash Assets,.....$641,253 52
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W. B. CLARK, Secretary. H. KELLOGG, President.

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SAN FRANCISCO.

☞ Premiums received by the "PHŒNIX" for Insurance in this State are retained for investment in California Securities, and together with $50,000 already invested in Bonds, are held subject to claims for loss under California Policies, making

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A HOME INSTITUTION.

Backed by a sound *paid up capital*, the prestige of years, and an extended and valuable experience in the business.

Losses honorably adjusted and promptly paid in United States Gold at points where they occur.

R. H. MAGILL,.....General Agent.

☞ Policies issued and renewed in this sterling and popular Company, on all classes of desirable property, at rates as low as solvency and fair profit will admit of.

J. FRANK, City Solicitor. L. B. DELL, Resident Agent
I-3m

J. P. LeCount & Co.,

..FURNISH..

CERTIFICATES OF STOCK,

Equal to Lithograph, for $25.

Stock Ledgers, Transfer Books,

And all Stationery Required by Mining Companies,

AT LOW PRICES.

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—OF—

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OFFICE OF THE PENA AND LA MARRONENA SILVER MINing Companies, San Antonio District, Lower California.

All persons are invited to call and examine Ores from the above mines.

jlt WM. FAULKNER.

IMPORTANT TO MINERS.

MAGNIFYING GLASSES FOR EXAMINING QUARTZ.

MINING COMPASSES, WITH SIGHTS AND LEVELS.

BLOW-PIPES, OOLD SCALES.

POCKET COMPASSES, MAGNETS,

DRAWING INSTRUMENTS, in cases and separate pieces.

MARINE AND FIELD GLASSES.

EYE PROTECTORS. CALVANIC BATTERIES.

THERMOMETERS. BAROMETERS.

The Largest Assortment on the Pacific Coast for sale by

LAWRENCE & HOUSEWORTH, Opticians,
5v8-tf No. 637 Clay street, San Francisco.

HORTON'S TRANSFER JOURNAL.

—AN ARTICLE—

CHEAP AND CONVENIENT

For Mining Secretaries. For sale at this Office.

Orders from the Interior, accompanied with the Cash, will be promptly attended to. Price, $7; Postage paid, the price amounts to $7 50. 6v8-tf

STAGE NOTICE.

NEVADA STAGE COMPANY.

ON AND AFTER SATURDAY, JANUARY 2d, THE STAGES OF this line will run in connection with the Sacramento Valley Railroad from Auburn Station, each even date in the month, until further notice, to Allison's Ranch, Grass Valley, Nevada, Eureka, Steamboat Springs, Virginia City, and all points in Nevada Territory.

Office, corner of Front and K streets, Sacramento, opposite the What Cheer House.

N. B.—This line has been running stages for the last six years, and has never had an accident. Passengers can depend on their safety and comfort, as there are no persons in the employ of this line who are not stagemen. [6v8-1m] J. S. McCUE, Proprietor.

HEPBURN & PETERSON'S.

AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION OF THE Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos. 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machines now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

nov8-3m* HEPBURN & PETERSON.

REYNOLD'S

Patent Cut-Off and Governor,

For Steam Engines.

127 of these Invaluable Machines

ARE NOW IN USE

In California and Nevada Territory, giving a perfectly regular motion and

Saving 20 to 75 per cent of the Fuel.

Steen's Improved Governor

IS THE CHEAPEST, SIMPLEST AND QUICKEST TO ACT AND least liable to get out of order of any Governor in use. It can be seen in operation at the Golden State Iron Works, at the Stone Breaker, foot of Montgomery Street and at the Sugar Refinery, 8th Street, San Francisco.

Steam Engines, Boilers, Pipes,

Hydraulic Presses, Shafting, Pulleys, Etc., Etc., bought and sold the best market rates.

Anti-Incrustation Powder,

A sure remedy for Scale in Steam Boilers, without injury to the Iron. In use for the past EIGHT years.

☞ MACHINERY MADE AND REPAIRED. ☜

—REFER TO—

Sugar Refinery, San Francisco,
Cottell & Co., San Jose,
L. A. Booth, Esq., Virginia City,
And 2,000 others in the United States.

E. T. STEEN.

1-tf Nos. 37 & 39 Fremont Street and 42 & 44 Beal Street.

PATENT STEAM BOILER CLEANSER,

—on—

Antidote for Scales and Incrustation

Formed by the Deposit of Water in Steam Boilers.

Used in all Boilers at the London Exhibition in 1862, By order of Her Majesty's Commission.

G. VENARD,

No. 627 Front Street, San Francisco,

SOLE AGENT FOR CALIFORNIA AND THE PACIFIC COAST.

This Compound has undergone the examination of the most competent Chemists in France and England, and has been pronounced all over Europe the BEST ARTICLE ever found for removing Scales in Steam Boilers, this great evil of industry.

The main qualities of this Compound are: that it removes the scales of any boiler in a few days, no matter how old, and it does not injure the metal in the least. The raising of steam is made easier. It saves fuel and work, and prevents all dangers of explosion.

The Compound has now been in use for three years, and the great success obtained in the Old World induced the undersigned to introduce it in this State, being confident of the patronage of this enlightened and industrious country. G. VENARD,

No. 627 Front street, San Francisco.

☞ Reference will be given to parties using the above, at the Agent's office. 6v8-1m

Owen's River Canal Company.

CAPITAL STOCK.....$1,000,000.

10,000 Shares.....$100 per Share.

A PORTION OF THIS STOCK IS NOW OFFERED TO THE PUBlic, and recommended as an investment.

Full Paid and Unassessable Stock,

Also Assessable Stock, can be obtained of A. J. DOWNER & CO., the authorized Agents of the Company,

405 Montgomery Street.

President.....R. S. WHIGHAM.
Secretary.....W. FISK HITCHCOCK.
Treasurer.....MONTGOMERY GODLEY.
Superintendent.....WILLIAM FLEMING.
Engineer.....J. E. CLAYTON.

TRUSTEES:

R. S. WHIGHAM, formerly of Whigham's Mill,.....Nevada City.
WILLIAM FLEMING.....of San Francisco.
SPIER RIDDEL.....Paying Teller of Parrott & Co's.
ISAAC SWAIN.....of A. J. Downer & Co.
WILLIAM P. PRATT.....of Nash & Fogg.

Office of the Company 328 Montgomery Street. jlu

Removal.

OFFICE OF THE PACIFIC METALLUROICAL OFFICE IS REmoved to 509 Sacramento street. Having enlarged our works at North Beach, we are now enabled to reduce from 10 to 15 tons of Silver or Gold rock per day.

Gold and Silver ore, and Sulphuret Assayers', or Silversmiths' sweepings reduced or purchased.

COPPER ORES—Highest market rates advanced in cash, for Shipments. S. O. BRADSHAW, Agent,

509 Sacramento street, near Sansome.

The Pacific Monthly Magazine.

The only original magazine published on the Pacific coast.

EDITED BY LISLE LESTER,

Recently from the East, comes out in new type, new cover, and fresh in all its material and matter. This Magazine will be devoted to the Literature of the Pacific coast, and will equal any of the Eastern publications in variety, taste and class of its contributions.

The Editress is striving to make it a

HOUSEHOLD WORK.

A new story written by an Eastern lady of talent and renown, commences with the January number. All who wish to read "SHIMAH" must subscribe at once.

The PACIFIC MONTHLY now established on a permanent basis, it numbers among its contributors the best writers of this State, and offers to those who love a chaste, thoughtful and elegant style of literature, attractions superior to those of any other publication on this coast. Its aim will be to elevate the literary standard of this State, and give to the world a truthful picture of the life and literature of California.

The March number is to be illustrated with views around San Francisco.

The Editor's table is alone worth having.

The subscription rates are less than other works of a similar character. All orders promptly attended to.

Office room, No. 45 Government House, North West corner of Washington & Sansome Streets, San Francisco, Cal.

Terms: Per year, in advance $3 00; per year, if payment be delayed three months $4 00; Single copies 25cts; Clubs of five $12 00 Clubs of ten $20 00.

Mining Notices.

Poindexter Silver Mining Company, Reese River Mining district, N. T.—Notice is hereby given, that at a meeting of the Trustees of the above named Company, held the 20th of October, 1863, an assessment of Fifty cents per share was duly levied on each and every share of the Capital Stock of the Company; and at a meeting of the Trustees held Feb. 27th, 1864, an assessment, No. 2 of fifty cents per share was duly levied on each and every share of the Capital Stock of said Company, payable immediately to the Secretary, in U. S. Gold Coin, at his office, No. 35 Government House, or to the Agent, Wm. Alphens Smith, at Austin, N. T.

San Francisco, March 1st. (10v8-1m) JAS. C. NORRIS, Sec'y.

Office of the Belle Silver Mining Company, Santa Fe District, Lander county, Nevada Territory. San Franciscot Feb. 23, 1864.—Notice is hereby given that at a meeting of the Board of Trustees of the above Company, held thi ,day, an assessment (No. 2) of fifty cents per share has been levied on each and every share of the capital stock; payable immediately, in gold coin, to the Secretary at his office. J. S. LUTY, Sec'y, 305 Montgomery.

9v8-4t.

Maryland Silver Mining Company, Santa Fe District, Lander county, Nevada Territory. Office 305 Montgomery street, San Francisco, Feb. 25, 1864.—Notice is hereby given that at a meeting of the Board of Trustees of the above named company, held this day, an assessment of fifty cents per share has been levied on each and every share of the capital stock, payable immediately to the Secretary, at his office. By order of the Board of Trustees

9v8-4t. J. S. LUTY, Sec'y.

Pleayune Gold, Silver and Copper Mining Company, Bear Gulch, Calaveras Co.—At a meetiug of the Board of Trustees of the above Company, on the 17th day of February, 1864, an assessment of six cents per share on each and every share of the Capital stock of the said Company was levied, payable on or before the 22d, day of March, 1864. And Notice is also hereby given that the first annual meeting of the Stockholders of the said Company will be held on Tuesday the 22d day of March 1864, at the office of the Company at Copperopolis, for the purpose of electing officers for the ensuing year, for the adoption of By-laws, and for the transaction of such other business as may come to its notice. All Stockholders are respectfully requested to attend.

By order of the Board of Trustees,

L. HONIGSBERGER, Sec'y.

Copperopolis, Feb. 17th, '64. 9v8-4t

Imperatrice Silver Mining Company, Santa Fe District, Lander county, Nevada Territory. Office 305 Montgomery street, San Francisco, Feb. 24, 1864.—Notice is hereby given that at a meeting of the Board of Trustees, held this day, an assessment (No 2) of fifty cents per share was levied on each and every share of the Imperatrice Silver Mining Company, payable immediately, in gold coin, to the Secretary, at the Company's office. By order of the Board of Trustees. (9v8-4t.) J. S. LUTY, Sec'y.

Santa Maria Silver Mining Company, Santa Fe District, Lander county, Nevada Territory. Office 305, Montgomery street, San Francisco, Feb. 23, 1864.—Notice is hereby given that at a meeting of the Board of Trustees, held this day, an assessment (No. 2) of fifty cents per share was levied on each and every share of the capital stock of the above company, payable immediately, in gold coin, to the Secretary, at his office. By order of the Board of Trustees. (9v8-4t.) J. S. LUTY, Sec'y.

Emmett Copper Mining Company, Office No. 615 Clay Street, San Francisco, February 19th, 1864.—Notice is hereby given to the Stockholders of the Emmett Copper Mining Company, that an assessment, No. 4, of 37½ cents per share was this day levied on each and every share of the Capital Stock of said Company, payable immediately in United States Gold Coin, to the Secretary, or to L. Honigsberger, Copperopolis.

8v8-4t M. G. ELMORE, Sec'y.

To the Stockholders of the Real del Monte Consolidated Gold and Silver Mining Company.

The undersigned, who were appointed a Committee at the meeting of the stockholders on Friday night, have met and determined upon the following measures for the present:

1st. The appointment of a first class book-keeper to examine the books and accounts of the corporation, and report upon its condition.

2d. The appointment of two gentlemen of ability, one a superior mineralogist, and the other a skillful mining engineer, to proceed together and visit the mine, and ascertain and report accurately upon its condition and prospects.

In order to carry out the objects of the stockholders upon the plan adopted by the Committee, a fund will be required of about twenty-five hundred dollars, which will be a tax of about one dollar per share upon the number of shares represented at the meeting of stockholders. Mr. James J. Robbins has consented to act as Treasurer, and the stockholders are requested to pay their contributions of one dollar per share at his office, No. 609 Clay street.

Unless this is promptly attended to, the important inquiry placed in our hands will fall to the ground.

We have also determined to warn the public against buying or dealing in any of the promisory notes or other evidences of indebtedness issued by apparent authority of the Corporation, as we are advised that the debt created is illegal, and the notes will consequently be void in the hands of any person, however innocent of their origin.

JAMES J. ROBBINS,
WM. BUCKLEY,
ALEXR. WARFIELD,
S. HEYDENFELDT.

9v8-tf

Brown's Bronchial Troches.—These Lozengers are prepared from a highly esteemed receipe for alleviating Bronchial Affections, Asthma, Hoarseness, Coughs, Colds, and Irritation of the Throat.

PUBLIC SPEAKERS AND VOCALISTS

Will find them beneficial in clearing the voice before speaking or singing, and relieving the throat after any unusual exertion of the vocal organs, having a peculiar adaption to affections which disturb the organs of speech.

Agents for California, Redington & Co., San Francisco. 10-1m

Before Cutting the Leaves of this journal, stitch each No. through the back, or fasten with a large pin, and you will have a paper in the most convenient form possible for reading or reference.

The Law for Publishing Legal Mining Notices.

An utterly erroneous opinion having been engendered in the minds of some (through misrepresentatious and interested motives of others), that the laws of this State technically require the publication of mining notices to be he made in a daily paper, we take occasion to quote the following positive passage concerning the publication of mining notices, from the latest statutes passed by our Legislature on the subject, March 5th, 1861, which has not since been altered or amended:—

"Notice of each such call, or assessment, shall be given to the respective stockholders personally, or shall be published once a week for at least four weeks in some newspaper published at the point designated as the principal place of business of the corporation, and also in some newspaper published nearest to the point where said mining operations are being carried on. If, after such notice has been given, any stockholder shall make default in the payment of such call, or assessment, as to the shares of stock held by him, so many of such shares may be sold as will be necessary for the payment of the call, or assessment, on the shares held by him. The sale of said shares shall be made as prescribed in the by-laws of the company; *provided*, that no sale shall be made except at public auction to the highest bidder, after a published notice of thirty days, published as above directed; and that at such sale the person who will agree to pay the call, or assessment, so due, together with the expense of advertisement and the other expenses of the sale for the smallest number of whole shares, shall be deemed the highest bidder."—Passed March 5th, 1861—Stat. 1861, p. 14.

The above is indeed plain, and we hold ourselves responsible for the assertion that a weekly issue of a mining notice is as valid as that of a daily. By publication in the Mining and Scientific Press, a wide circulation is given to notices, particularly among miners and shareholders in this city and throughout the State and Nevada Territory. A weekly publication is also secured at a material saving in cost to shareholders.

Give the Name of the District.

We are requested to call the attention of Secretaries of Mining Companies to the importance of inserting in their advertisements of whatever character, the name of the district or locality. Considerable trouble arises from this neglect, as there are Companies bearing the same name, although situated in different localities. Attention to this matter will not only be a benefit to others interested in Mining Companies, but also to the Secretaries themselves.

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. The Mining and Scientific Press Patent Agency has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

The Names
—OF—
Mining Companies and Secretaries
AND THEIR
OFFICE LOCATIONS
WILL APPEAR IN THE
MINING DIRECTORY
—TO BE ISSUED—
Next Week from the Office of the
MINING AND SCIENTIFIC PRESS.

RETAIL PRICE, 50 CENTS.

SOLD BY SUBSCRIPTION.

DEWEY & CO., Publishers,
And Patent Solicitors, Government House, San Francisco.

MINERS WANTED
By the Mariposa Company.

WAGES, $3 25 A DAY. BOARD, 85cts. A DAY.

Apply at the Mines, Mariposa County.

Bear Valley, March 1st. 1864. 10v8-1m

Palmer's Patent
ARTIFICIAL LEG,
Manufactured in Philadelphia, Pa.
JARVIS JEWETT, AGENT.
629 Washington Street, San Francisco, Cal. 10v8-1m

GEORGE H. BAKER,
Lithographer & Engraver,
No. 522 Montgomery Street, San Francisco.
MINING STOCK CERTIFICATES LITHOGRAPHED IN THE MOST ARTISTIC STYLE. CALL AND EXAMINE SPECIMENS.
10v8-tf

ORE BAGS.

Of various qualities and sizes, for sale by LEWIS & DETRICK,
10v8-m 113 Clay St., San Francisco.

C. A. CRANE,
STOCK BROKER,
Member Stock Exchange,
Office, Government House, Room No. 27, San Francisco. 10v8

Boston Mastic Roofing.

WE ARE PREPARED TO FILL ALL ORDERS FOR ROOFING throughout the State, Mexico or Nevada Territory. The attention of miners and mill owners are especially called to this notice, it being the cheapest and most economical roofing in use.

Office 135 Montgomery Street, near Bush, San Francisco.

10v8-2m N. P. PERIN & CO.

Enterprise Copper Mining Company.—Office 615 Clay Street, San Francisco, Feb. 13th, 1864.—Notice is hereby given, that there will be sold at the Office of the Enterprise Copper Mining Company, on Saturday March 19th, 1864, at 10 o'clock A. M. so many shares of the Capital Stock of said Company as will be necessary to pay all assessments due and delinquent, standing in the names of the following parties:

NAMES.	No. SHARES.	AM'T. DUE.
Abell & Evans,	200	$ 52
A. Bateman,	125	32 50
Belcher & Schwarz,	34	8 84
M. Berkowitz,	50	4
John Cochran,	25	14
J. M. Camon,	25	14
J. P. Dameron,	100	46
Wm. Davis,	25	6 50
Thos. Donahue,	15	8 40
James Daley,	10	2 60
D. Eisner,	133	21 28
Wm. Harris,	400	204
J. Krone,	133	34 58
J. B. Kneald,	25	6 50
T. S. Levy,	2000	475
V. C. Putman,	200	32
P. Robinson,	200	52
E. F. White,	200	52

By order of the Board of Trustees. M. G. ELMORE, Sec'y.

San Francisco, Feb. 12th, 1864. 7v8-4t

Carson Silver Mining Company, (Monitor District) Office 622 Washington St., San Francisco.—Notice is hereby given, that in accordance with the laws of the State of California and an order made by the board of Trustees of the Carson Silver Mining Company, there will be sold at public auction at the Office of the company (by Jerome Rice & Co., Auctioneers) on Friday, March 11th, 1864, at 12 o'clock, (noon) of that day, so many shares of the the Capital Stock of said company, standing in the name of the following named Stock-holders as shall be sufficient to pay the following described assessments: No. 1, Twenty (20) cents per share, levied April 30th, 1863. No. 2, Fifty (50) cents per share, levied Nov., 30th, 1863; together with expenses of advertising and sale, unless said assessments are previously paid with accruing charges. To wit:

NAMES	SHARES	AMOUNT.
C. M. Gregory, No. 1, 200 ft; No. 2, 163 ft.,		$121 50
H. K. Clapp,	125	87 50
J. L. Waite,	145	101 50
W. Brackett,	60	42
E. W. Brackett,	25	17 50
W. H. Knight,	25	12 50
L. Dessoworth	12	6
Wm. Davison,	20	10

7v8-4w C. STEVENS, Sec'y.

Bankers Gold and Silver Mining Company, Gold Hill, Virginia District, N. T.—The Annual Meeting of the Stockholders of the Bankers O. & S. M. Co., will be held at their office. No. 620 Washington street, San Francisco, on Tuesday, March 1st, 1864, for the purpose of electing Trustees for the ensuing year and the transaction of such other business as may be necessary.

7v8-3t W. AUG'S. KNAPP, Sec'y.

El Dorado Consolidated Gold & Silver Mining Company, Devil's Gate District, Nevada Territory.—Office 113 California Street.—San Francisco, February 3d, 1864.—At a meeting of the Board of Trustees, of the El Dorado Consolidated Gold & Silver Mining Company, held this day, an assessment of one dollar ($1) per share was levied upon each and every share of the Capital stock of said Company, payable immediately, in United States Gold Coin, at the Office of the Company in San Francisco, or to H. F. Rice, at Carson City, Nevada Territory. By order of the Board of Trustees.

February 4th, 1864. [7v8-4t] JNO. F. POPE, Sec'y.

Emmett Copper Mining Company, Office No. 615 Clay Street, San Francisco, February 6th, 1864.—Notice is hereby given to the Stockholders of the Emmett Copper Mining Company that an assessment, No. 3, of 25 cents per share was this day levied on each and every share of the Capital Stock of said Company, payable immediately in United States Gold Coin, to the Secretary, or to L. Honigsberger, Copperopolis.

7v8-4t M. G. ELMORE, Sec'y.

Cræsus Gold and Silver Mining Company, Turnback District, Tuolumne county, Cal.—At a meeting of the Board of Trustees of the Cræsus Gold and Silver Mining Company, held the 4th day of February, A.D. 1864, an assessment of ten cents per share on each and every share of the capital stock of said Company, was duly levied, payable immediately, in U. S gold coin, to the Secretary, at the office of the Company, south-east corner Howard and Second streets, San Francisco. By order of the Board of Trustees.

San Francisco, Feb. 5, 1864. [6v8-5t] J. F. HARRIS, Sec'y.

Bay State Gold and Silver Mining Company, Turnback District, Tuolumne county, Cal.—Notice is hereby given, that the annual meeting of the stock-holders of the Bay State Gold and Silver Mining Company, for the election of officers for the ensuing year, will be held on the first Monday in March, at the office of the Company, south-east corner Second and Howard streets, San Francisco. By order of the Board of Trustees.

San Francisco, Feb. 5, 1564. [6v8-5t] J. F. HARRIS, Sec'y.

Crockett Copper Mining Company, Copperopolis, Cal.—Notice is hereby given, that at a meeting of the Trustees of the Crockett Copper Mining Company, held January 2d, 1864, an assessment of one ($1) dollar upon each and every share of the capital Stock of the Company was levied, payable immediately, in gold coin, to the undersigned, or to J. M. Pike, at Copperopolis; being assessment No. 2. On the 1st inst. the Trustees also levied another assessment, being No. 3, of one ($1) dollar per share upon each and every share of the capital stock of the Crockett Copper Mining Co., payable the same as assessment No. 2. Persons having interests in the Company are requested to come forward, prove title, and receive their certificates of stock. ISAAC HECHT, Sec'y,

No. 417 and 419 Sacramento street.

San Francisco, February 5th, 1864. 6v8-5t

Office of the Montezuma Gold and Silver Mining Company, No. 62 Government House, corner of Washington and Sansome streets, San Francisco. Feb. 5th, 1864.—Notice is hereby given, that a sufficient number of shares of the capital stock of the Montezuma Gold and Silver Mining Company, standing in the name of the following person, will be sold at public auction, at the sales room of Jerome Rice & Co., No. 327 Montgomery street, on WEDNESDAY, March 9th, 1864, at 11 o'clock A. M., to pay an assessment of 12½ cents per share, levied April 27th, 1863, together with expenses of advertising and sale, unless said assessment is previously paid with accruing charges—viz: Hugh McCormick; 247 shares; amount due, $30.87½. By order of the Board of Trustees.

6v8-5t C. A. CRANE, Secretary.

Mr. Jarvis Jewett is our duly authorized advertizing agent and collector in this city.

AND SCIENTIFIC

Mining Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

VOLUME VIII. SAN FRANCISCO, SATURDAY, MARCH 12, 1864. NUMBER 11.

Contents:

No. 11—March 12—Earthquakes—Their Causes and Effects; Ventilation of Mines; Communications—The Great Desert and Its Mines, No. 2; San Luis Obispo; Virginia City—Her Mines, Growth and Future Prospects; Jordan Creek; Churchill Mines; About Cloves; Mechanical Department—Railroad Switches and Signals, Steam and Electro-Magnetic Power, Steel Boilers; Remarkable Instance; Patent Department—Improvement on the Arastra, New Amalgamator; Mining Gossip; Reese River—A Comparative Review of Various Districts; The Mining Share Market; Editorials; Incorporations; Full Reports for the week of the San Francisco Stock Market; Washoe Stock Report; Chippings; Etc.

Editorial.

VENTILATION OF MINES.

From what has already been said upon the subject of mining ventilation, it will be perceived that a continuous current of air through a mine can be effected only by producing two columns of air, one of which shall be lighter than the other; the lightest ascending and its place being supplied by a descending of heavier or denser air. In sinking a shaft, after reaching a depth of fifty or sixty feet, more or less, according to accidental circumstances, ventilation can only be effected by establishing this condition. Under favorable circumstances, and to a limited depth, a current may be established naturally.

This current is established as follows:—In winter the air in the bottom of a shaft, which is being worked, soon becomes heated by contact with the walls of the shaft, which are then warmer than the outside atmosphere, and by the animal heat, and vapor evolved from the workmen. This heated air finds a natural exit upward along the walls of the shaft, while its place is supplied by a down current occupying the center of the shaft. In summer this mode of ventilation is much less reliable, from the fact that the air on the surface is then, especially during calm, sunny days, warmer and consequently lighter than the air which naturally exists at the bottom of the shaft. Natural ventilation, under such circumstances can only be kept up by incidental causes—such as the movements of surface current, (winds,) the liberation of lighter gases, or the percolation of water, which latter cause has a tendency to produce a downward current along the walls of the shaft—the reverse, it will be noticed, of the movement of the columns in winter. The greater the superficial dimensions of the shaft under these circumstances, the more easy is the renewal of the air effected.

To aid and quicken natural ventilation in an isolated shaft, ventilating partition frames are employed. That is, the shaft is divided into two compartments by a thin board partition continuing from the mouth of the shaft downward as the workmen descend. The joints of this partition should be as close as is consistent with the rough work; the interstices between the planks being caulked, or covered with stiff clay, or something equally impervious to the atmosphere. If with this assistance the ventilation is not sufficiently established, a chimney should be erected over the smaller partition, and carried to some considerable hight above the mouth of the main opening to the shaft. By this means the miner will almost invariably secure a difference of density, or weight, in his two columns of air, as illustrated in figure 4, number eight of this volume, and consequently fully establish the current necessary for proper ventilation. When the shaft is on the incline of a hill, the chimney may, if more convenient, be carried upward along the surface of the hill slope to any desired elevation.

If the excavation be a gallery or tunnel, (the latter term is most commonly used in California) with but one opening to the atmosphere, a similar partition may be carried along the tunnel as it progresses, occupying but a small space in one of its upper angles. In this case the better arrangement is to construct a frame, or long box, made like an underground drain, of four boards carefully nailed together, with the sections adjusted into one another like the joints of a stove pipe. The joints should be made as close as possible, and will be all the more serviceable if carefully caulked and pitched. This arrangement will be found more serviceable if the farther or last joint put up is made funnel shaped, presenting as large an opening as is consistent with the space to spare in the tunnel. This latter section may be constantly carried forward and the new ones inserted between it and the main line of pipe, as it may be termed. This pipe or chamber should always be constructed as large as is consistent with economy and the working space required in the tunnel or gallery.

When a shaft or tunnel is thus divided by a partition, it may be considered the same as though the workings were connected with the exterior atmosphere by two separate openings—as by the tunnel mouth and an air shaft, or by two shafts. The application in this instance of the laws of the movements of aeriform fluids as already defined in our previous articles under this head must be perfectly apparent to even the most casual reader. The partition issuing from the tunnel, may be extended by a perpendicular chimney, or upward along the incline of the hill, as already described in case of the isolated shaft.

It will readily be perceived that the arrangement described for use in tunnels will avoid all necessity for air shafts, which are oftentimes opened at great expense. The New Almaden Quicksilver mines have been ventilated upon this principle for several years. It was first introduced there, if we are not mistaken, by the present and long time efficient superintendent, Sherman Day, Esq.

Natural ventilation is always better in temperate or northerly climates, than in hot or equatorial regions. This is caused in part from the fact that the difference between the temperature of the walls of the excavation and the atmospheric air is greater in winter or cold weather, than in summer or warm weather. The same favorable difference is observable between the cooler hours of night and the warmer hours of sunshine. In addition to which the presence of the workmen, the lighted candles, the steam with which the air of mines is constantly saturated, etc., all act as an augmentation of temperature in the mine, and consequently aid in giving intensity to the outflow of air through the upcast shaft or opening, whatever it may be. Of course, for reasons already given, whenever in natural ventilation the atmosphere rises to a greater temperature than that in the mine, the current of ventilation will change its direction. When there is very nearly an equilibrium between the exterior and interior atmosphere, the ventilating current is noticed to oscilate from one direction to the other, disturbed from the slightest agitation of the atmosphere either within the mine or upon the surface.

Hence it will be seen that natural ventilation is subject to frequent irregularities, and is sometimes altogether insufficient without some artificial aid. When such aid is resorted to, the process is styled artificial or physical ventilation. We propose to devote a final chapter to this subject.

COPPER MINES.

The Lake Superior *News and Journal*, in its issue of January 8th, publishes a very able article on mining matters, in which, after showing the results obtained by well-conducted companies in that region, such as the Knowlton, Caledonia, and Bohemian, it says:

Such are the practical results of the proper management in copper mining. It is more than to own good ground, with the stock placed, with an agent working it, but with all this done and its productiveness proved—that sufficient money be furnished by the stockholders to fully and properly open the ground with such machinery as will also make its products to the fullest extent available, this may take $200,000, but what of that, if then—as any good mine will—it will return from $100,000 to $200,000 in dividends, with the value of its stock increased ten-fold. The only reason why we have no more Quincy, Pewabic and Franklin mines, is because so few have pursued the policy they did, or rather, adopted the efficient means they did to develop them. There is plenty of just as good ground, to say no better, as they possess, and with equal improvements, with the same working, would stand in the same rank.

The above remarks from the *News and Journal* apply equally well to mining operations in this State. It is useless to expect that copper mining will prove generally remunerative here until capital is brought to bear, both in developing our mines and in the erection of machinery. In California, as elsewhere, we can only now and then expect to find a mine that will pay its way from the start, as the "Union" has done. We have as yet but three or four copper mines in the entire State which have been opened so as to admit of anything like an extensive and systematic working, and we are fully satisfied that but very few will ever be developed into valuable mines except by means of a large outlay of capital. Fifty, seventy-five or an hundred thousand dollars, intelligently invested in opening up a mine and the erection of machinery, for concentration, may be considered a reasonable figure. No very bright prospects, as a general thing, are to be expected from no assessments at all, or even from 50-cent assessments. It will be found sound policy for our copper miners, even after they become fully satisfied that they have a "good thing," to be liberal with capitalists, and secure a thorough opening of their mines at the start. Organized companies will be wise if they assess largely and sufficiently to place themselves at once upon such a sound basis that failure will be impossible.

Communications.

[Written for the Mining and Scientific Press.]

The Desert and Its Mines--No. 2.

BY J. E. CLAYTON, M. E.

We will commence our investigation of the mines of the Great Desert hy an examination of the mines along the line of the Colorado. The first district of importance liee on the east side of the river, and some thirty or forty miles north of the Gila, called "Castle Dome," from a mountain of that name, where the principal mines are located. Large veins of quartz, with very rich eopper ore, have been discovered, some of whieh may prove valuahle when opened to the proper depth. The prohabilities are, however, that those quartz veins that are pockets on the surface will also prove to he pockets in the depth. I am aware that the popular belief is that veins are richer and larger at a great depth than at the surface; but my observations in the mines of Georgia and Alahama, and through the whole of Califoruia and a large portion of Nevada Territory, lead me to a very different conelusion. As a rule, the mine or vein that is not rich at the surlacc will not be rich in the depth. This is especially tho case with goldbeariug veins. Silver and eopper veins are frequently found to increase in the yield of metal as you approach the water liue, at which depth they generally give their highest yield of metal. There are two eauses for this result; the silver or eopper was first in the form of a sulphide or sulphuret. As the ravines and cañons were worn down, the veins were drained to a line more or less near the level of their ehannels; this, as a matter of eourse, admitted the atmosphere to penetrate the veins as far as the waters receded. The oxygen of the atmosphere commenced a slow hut sure decomposition of all the exposed sulphides or sulphurets, ehanging them iuto sulphates, whieh are soluble in water. The coutinual percolation of water from the surface down to water-line has slowly earried the sulphates to a greater depth, where it has formed chlorides, if any salt was present, or else entered into ehemieal union with other substances in solution at the water line, and for some considerable distauce helow; but after we have reached the level of the *lowest drainage* in the neighborhood of the vein, we need not expect any further increase of its richness, for the reason that there can be no displacement and infiltration below that point.

This rule will not hold good with veins of gold, because gold cannot he ehanged by the action of the elements, and be transferred hy a solvent from a higher to a lower position; bnt in practice the rule works the other way, for gold-bearing veins almost invariably yield more gold, per ton, *above* the water line than they do helow. Here we recognize the same causes that produce the changes in silver and eopper ores—namely, the *decomposition* of the sulphurets of iron which contain a large proportion of the fine gold, which is thus let free hy the oxidation of the sulphurets, and is therefore more easily saved than if the sulphurets remained solid. Thus we see that the same eauses that *increase* the yield of silver and copper veins, as we go down upon them, to the the lowest point of drainage, *decreases* the yield of gold veins in about the same ratio.

I do not make these statemeuts for the purpose of discouraging any one from engaging in the husiness of mining, hut because the truth must be told though the h-avens fall; and because the iuterest of legitimate miniug demands that the facts that have been developed by tho experience of the last three centuries shall he mado known to the inexperieuced.

The reader will pardon this digression, and at some future time I will diseuss the subjeet with "popular belief" at greater length than the limits of this article will permit.

But to return to Castlo Dome District. Late discoveries made there proves it to be rich in deposits of argentiferous galena as well as eopper. The veins of galena are said to be large and well defined, and in many of them silver is found to he the predominating value. The silver lead veins are found on the westerly side of the district, and near enough to the river to mako transportation easy and cheap. In many of these mines are found old work done by the Spauiards long years ago—at least that is the sup-position, as the uative tribes are entirely ignorant of the art of mining. The richest of ore will be shipped without any dressing beyond close eorting, and I think that will be found the most profitable way to work the mines of this district, for the reason that the miners in that ease ueed but little eapital to open and work their mines. They ean take an outfit of tools and provisions sufficient to last them five or six months, and in that time they can get returns from their first shipments with whieh to replenish their supplies. And I may remark here that the above suggestions will also apply to all the eopper districts ou the line of the Colorado river. Reduetiou works will he found very expeusive and unprofitahle affairs in this desert region for many years to eome.

The next district above Castle Dome is ealled the "Weaver District," and its depot for supplies will he at Olive City. The prineipal mines in this district are copper, assoeiated with a hard white quartz gangue. The veins are irregular and lenticular in form, and notwithstanding the great riehness of the ore, I must say that I have hut little faith in the continuance of these mines to any great depth. In addition to the copper veins in this district there has been found a very rare mineral, composed prineipally of silver and mercury, in the form of native amalgam, or a combination of the ores of the two metals. This vein hids fair to prove of great value and is highly prized hy the owners.

The next district above the Weaver, is the "La Paz," whieh extends to the eastward from the river some forty miles, and iueludes the Apaehe Chief and the Sataza and other mines well known to the publie.

The town of La Paz is the largest settlement on the river, and will eventually be the great supply depot for the central portion of Arizona Territory. A good wagou route has been recently explored and loeated by Herman Ehrenhurg & Co., to the new plaeer mines known as Walker's Diggings, and to the Apaehe eounty on the heads of the Gila, and little Colorado rivers.

When the mines of Arizona are opened to safe occupaney, by subduing the wild tribes that now iufest that riehest of all our mining territory, the towns of Fort Yuma, La Paz, and Fort Mojave, will become large cities; for it is a well ascertained faet that those three depots must supply nearly all of Arizona with provisions, tools, maehinery, and in faet everything used by a mining eommuuity.

The next district above La Paz is the Williams Fork District, which is perhaps one of the riehest copper districts on the Colorado, and it appears to he the northern limit of the eopper region on the east side of the river.

On the west side of the river there are three copper districts—The Chimewawa District uearly opposite La Paz; the Freeman District opposite Williams Fork; and the Eretaba some sixty miles above and about twenty-five miles south-west of Fort Mojave. Above this point there has been no copper of any importance diseovered. The reader will observe that there are six miniug districts between Fort Yuma and Fort Mojave—three on each side of the river—and that the preponderat ug metal is copper, and we might safely say that it is the only metal yet found in workable quantities, exeept the lead mines in Castle Dome District. The extent north and south of these copper mines is about two hundred miles, and the width is unknown, as the couutry is not explored to any great distance back from the river, owing to the absence of water and grass.

North of the eopper couutry we fiud gold and silver as the predomiuant metals. First above Fort Mojave on the east side of the river is the San Francisco District, in whieh is located the Great "Moss Ledge" of which you have heard such briliant accounts.

On the east side of the river is the "Rock Spring" District, which is some forty miles this side of the Fort, and on the road to Los Angeles. Next, above Mojave, about sixty miles, is "Eldorado Cañon;" and the next and farthest north of all is Potosi District, forty or fifty miles north-west of Eldorado Cañon. These four districts include all the mines of any importance, north of the copper districts, and cover all of value that is yet known within reach of the river, except the head of navigation. As these districts have been so often deseribed, and are so well known, I have merely pointed out their locality, for the purpose of showing their dependence on the Colorado river as a base of supply, and line of communication north from the Gulf of California.

In my next number I will point out the lines of commuuication overland, across the Desert.

A Hint for the Postal Agent.—A letter from Virginia, N. T., March 3d, says:—"There is no doubt that the post offices are very poorly eonducted. Some of your letters are five and six days getting here. I received a letter from Marysville that was 21 days coming; and I have known letters to be 16 days arriving from San Francisco, and another 17 days going from here to Silver City."

[Written for the Mining and Scientific Press.]

San Louis Obispo Correspondence.

A correspondent writing from San Louis Obispo under date of March 1st, 1864, speaks in somewhat unfavorable terms of the seaworthiuess of the steamer Senator, upon whieh he had just made the trip from this eity. The writer had beeu out to the old Mission of San Louis Ohispo, distant some nine miles, where he found mueh exeitement existing with regard to mines and "feet." Our correspondent adds:—

The mines of San Louis Ohispo are a broken, volcanic region, lying, hetween the Coast Range and the San Margarueta mountains. This range of mountains runs nearly north-west and south-east. The general formation is a talcose, chloritic upheaval, with a large amount of hornblend houlders, forming an amygdaloidal structure, which deserihes the general formation of the cupriferous deposits of this county. On the south-west, bordering this talcose formation, seven peaks rise up from one to three hundred feet high, eomposed of a porphyritic granite. These peaks all stand in a direct line, running from San Louis, due south-west, terminating with the well known Maro Roek whieh stands on the margin of Maro Bay. This rock is about 200 feet high and eovers some two or three aeres of superficial space. I am told that it has a fine fresh water spring on its summit. This Maro Bay, it is thought hy some will eventually heeome the shipping point for the eopper ores of this region, and some enterprising individual has already secured the locality for a town site, and erected thereupon a small house.

The eopper ores of this region are generally of a superior quality, consisting of eopper glance, green carbonates, sulphurets, red and black oxides and native copper, apparently of an eleetro galvanic deposit. The croppings are found traversing the talcose slates, in a south-east and north-west direction. They are numerous; and no less than one hundred to two hundred claims have already been recorded iu the different districts. In addition to copper, several good quicksilver claims have been taken up, from whieh I have been shown as fine cinnabar as nature ever produced. We expect these mines will eventually equal the famous New Almaden mines in value. I have just been out to examine a large deposit of stratified bituminous shale which runs for miles in the prevailing direction of south-east and north-west, dipping to the east at an angle of about 35 degrees. This deposit is strongly impregnated with bitumen. It appears to be inexhaustible and is found only ten miles from shipping. What is most wanted just now, for this region, is some enterprising owner of a sea going steamer or sailing vessel, to open up a trade between the people of this section and San Francisco, and the establishment of a warehouse at San Simon Bay. The man who gets the start in this business, will open the way to a fortune.

SINGULAR PHENOMENON.

I witnessed a singular phenomenon a few days since, on the Santa Rosa Creek, six miles from the ocean. A brisk shower of rain snddenly commenced falling at the locality indicated, at a time when the sky was clear in every direetion, without a cloud in sight. A gentleman who has resided in this loeality four years assures me that this phenomenon is frequently witnessed in the eañous on the the upper waters of this creek. E. H.

An Attempted Mining Swindle.—A Virginia City eorrespondent furnishes us with the following particulars of an attempt to swiudle, which came to his knowledge a few days since: A gentleman went from Virginia to Silver City to examine a claim, into which he thought of buying. He descended the shaft with one of the owners. who took up a few pounds of rock apparently directly from the vein in the bottom of tho shaft. The rock was taken to the surface, reduced in a mortar, and yielded a fine display of both gold and silver. To make the thing still more sure, *this* owner would not sell a foot, but told his friend where he thought he *could* buy a few at $20 per foot. Our friend, however, was not exactly the "greeny" he was taken for, as it appears he took the precaution, after dark, to pay the shaft another visit, when he took some rock from another portion of the vein, submitted it to the same process as the first, with a result of *nix!* The proof was plain that the mine had been "salted," and our friend saved his money. Such practices are swiudles of the worst character, and should be frowned upon hy every honest man. We know no difference, in enormity, between such a crime and downright robbery.

[Written for the Mining and Scientific Press.]

Virginia City--Her Mines, Growth and Future Prospects.

A correspondent at Virginia City writes as follows: I am almost at a loss for language to describe to you the vast and substantial progress that has been made in this City of the Mountains within the past five years. Truly the old and trite Bible-saying that "out of nothing God made all things," may be appropriately applied to Virginia City. When standing on the top of Mt. Davidson, some four years ago, and looking east, there was nothing visible but rocks, sage-brush, scrubby cedars and alkali plains; on turning to the west, at a distance of about twenty miles, your eye rested upon a dense and lofty growth of noble pines, which appeared in strange contrast with the immediate vicinity upon which I was standing. Little did I then suppose that out of those stately monarchs of the forest there would so soon be built the populous and thriving city which now exists at the foot of the mountain.

The scene is again changing, for in the place of the original wooden structures, hundreds of substantial fire-proof edifices are now being or have been erected. Perhaps it may seem fabulous to those that never visited this land of gold and silver, yet it is true that Virginia City is to-day second to but one city on the Pacific slope in population and business.

Since my first visit there, many leads have been discovered and claims opened, yielding results scarcely to be anticipated; and yet mining here is only in its infancy. As evidence of this, we have only to refer to the increasing amount of bullion that is daily being shipped from this place. The mines here are just now exciting a new interest, from the fact that there are numerous lawsuits now pending between parties who claim that there is but one Comstock ledge, and those who claim that there are more than one. In passing, I may state that I have been informed by parties who appear to be posted, and who have no other interest than to tell the truth, that *there are two separate and distinct silver and gold-bearing quartz leads, running parallel with each other, and about sixty feet apart.*

It is very evident that the big fish are trying to eat up the little ones. At this I am somewhat surprised, because there is enough ore in such claims as the Gould & Curry, Mexican, Central, Ophir, Savage, Challar, California and many others too numerous to mention, to last the present owners as long as any of them will live. Should they continue even past the ordinary age of man, they will not be able to work out their claims. To speak within bounds, there are not in the whole world so many rich ledges, in the same scope of territory, as there is within a radius of ten miles in what is properly known as the Washoe mines. To give you even the briefest description of the many scores of mills that have been erected here within the past four years, would require more time than I have to spare. Anything like a full account of the Gould & Curry, alone, would fill up at least four numbers of your valuable paper. This is undoubtedly one of the most costly and extensive mills ever built for the reduction of gold and silver ore. To attempt to tell you what the future of Virginia will be, would be almost futile; but judging the future from the past, we may reasonably arrive at the conclusion that Virginia City, Gold Hill, Silver City, Dayton and American City, will eventually be one and the same place, better known, perhaps, as the Consolidated City of Silverland.

ALPHA.

TRADE MARKS AND THEIR USE.—If the reader possesses a knife of a well known maker and opens it, he will see that, in addition to the name, there is a Maltese cross and a plain cross stamped upon the shoulder of the knife. This is the trade mark, the endorsement of the firm with respect to its excellence. This trade mark is very valuable; possibly the manufacturer would not sell it for $20,000. There are other trade marks almost equally valuable. An adze maker will select as his mark a pipe; another will put on a hatchet, another a lion, a fourth a goat, according to the class of men whom the tool or implement is likely to reach. The reason why trade marks are stamped on this kind of "dry-goods" is that they are often made for a distant market, where the peasantry can understand a simple emblem, when they would not be able to read a makers name. The Canadian backwoods man, for example, has found that his old adze marked with a pipe was excellent; he therefore demands a new adze with a similar mark upon it. The name of the maker he may not be able to read, any more than the savages to whom the goods are sometimes sold.

WORK on the extension of the California Central Railroad, beyond Lincoln, toward Bear river, has been commenced. The line will cross Bear river a short distance below Johnson's Crossing.

FROM JORDAN CREEK.—The Virginia *Enterprise* has seen some specimens of gold bearing quartz from Jordan Creek mines, 150 miles north of the Humboldt mines, which the editor describes as exceedingly rich. The rock is completely covered and filled with native gold in very coarse pieces. The gold contains so great a per cent. of silver in sulphurets, it is of a dark, mottled appearance. As yet there are but few persons mining in the vicinity, but those who are there have been taking out from ten to twenty ounces of gold per day with rockers. The dirt is decomposed vein matter found around and below the numerous leads. The lead from which the specimens shown us were taken, is said to be about five feet wide. If any great portion of the vein is as rich as the rock we saw, it is equal to the famous Ish lead in Oregon. Mr. Jordan, the discoverer of the "Jordan Creek" mines, recently left this city with machinery for a quartz mill to be erected at some point in that vicinity.

Snow fell to the depth of eight inches in these mines last fall, about the middle of November, but afterwards melted off and some good weather followed. There is an abundance of good pine and fir timber in the mines, also any amount of water for all purposes. When Mr. Jordan left last fall there were some seven hundred men working in the mines, but only a few persons wintered there. There had been eighty-four distinct leads discovered last fall, varying in thickness from eight inches to forty feet. These leads, or a great many of them, are situated on the hills from which flow the various tributaries of Jordon Creek, and most of them are quite rich in gold. Men were mining for a distance of fifteen miles along the main creek, also many were mining on the streams and on the hills about where the quartz veins are found. Many of the quartz veins are said to be immensely rich, as is shown by a large number of assays made in San Francisco. The metal is chiefly gold—one quarter, perhaps, silver. Mr. J. thinks the diggings are quite extensive, and says there is a large scope of good looking mineral country that yet remains to be prospected. Twenty-feet is the greatest depth which has yet been attained in any of their claims.

THE ASTOR MINE, GOLD HILL.—A large amount of the stock of this mine, we believe, is held in this city. A correspondent at Virginia City writes us in substance as follows in regard to it:—The mine is located in the well known Crown Point Ravine They have now a tunnel in about 300 feet. A good looking ledge, 14 to 16 feet thick, was struck about 150 feet from the mouth of the tunnel, and the company expect to strike their main ledge during the present month, the croppings of which prospect well in both gold and silver. They also expect to encounter a heavy stream of water, which will be very valuable, as the mills below are paying at the rate of $100 per month per inch for water. The Astor is already selling three inches at the above rates. The company contemplate the erection of a mill when they strike their second ledge. The work on the mine, at present, appears to be conducted with energy and efficiency, under the superintendence of E. A. Hive, Esq.

AMERICAN FLAT CLAIMS.—The Virginia City *Enterprise* says that nine-tenths of the claims in American Flat derive their value only from the probability that there is a rich ledge running through that locality, and that they are upon it. The Uncle Sam ledge is immensely rich, and it is the opinion of some that it makes a bend and runs down the west side of Gold Hill canon, towards Devil's Gate; others declare it must extend through American Flat proper; a number invest their money upon the supposition that it follows the range of hills west of American Flat, and a few wisely determine upon mature deliberation, that it plunges into the mountains still further west, and loses itself in the bowels of the earth. It is amusing to hear these various theories amplified upon by owners of claims in different localities. All scout the idea of ground being worth anything that is situated anywhere but in the immediate vicinity of their respective mines.

STEAM DOOMED.—There can be no doubt but that engines worked by steam, the employment of which is always attended by so great a loss of heat, will eventually be superseded by air or calorie engines, where there is no loss by condensation. Theoretically, air engines are perfect, and the practical difficulties that prevented their adoption are being overcome.—*Intellectual Observer.*

THE CHURCHILL MINES.—The Virginia *Union* gives an interesting account of the work of development now in progress upon these mines. We condense as follows:—It will be remembered that a good deal was said some two or three years ago about certain silver-bearing lodes situated a couple of miles north of Fort Churchill. The locations were mostly made by Germans and officers residing at the Fort Among the former were men of much scientific knowledge and practical experience in mining, and for a time the utmost confidence was felt in the ledges at that point, as was evinced by the heavy outlay of labor expended upon them. Several tunnels were commenced and carried forward with due diligence, but the means of the parties being limited they stopped short of reaching the ledges which it was intended they should strike at a good depth beneath the surface. We are glad to learn that operations have been resumed upon one at least of these early locations. A company of capitalists and thorough going business men, prominent among whom is Captain John Kelley, of San Francisco, have taken hold of the old Governor Nye ledge, German Company, and are sinking a shaft at a new point, the work being pushed day and night, and with a determination to prove its character at an early day. Over eight thousand dollars were expended on this ledge before it came into the hands of the present owners. It is the intention of the Superintendent, Mr. A. H. Lissack, to sink the shaft to the water level, supposed to be about 200 feet down, and then drift into the ledge. This shaft is now down 110 feet. Numerous assays establish for this ledge a high value, these tests running from two and three to thirteen hundred dollars per ton. Some working tests, made at Rigby's mill, American Flat, were also highly satisfactory, yielding $112 to the ton. We have before us an assay made by Theall & Co., which gives $37.67 gold, and $465.13 silver to the ton. Mr. Cherry, a well known expert, tells us that he has examined the ore from this mine, and finds it to contain horn silver, a very rich and rare species of ore, and seldom met with except in Chili. He construes it into a most favorable sign. This ledge is large, being 14 feet wide, and seems to carry metal throughout, so much so that not a particle of the rock can be found but exhibits silver under test. What adds to the value of this company's property is the fact that they own a water power on the Carson river, two miles and a half distant from the mine, the road to their mill site being over hard and descending ground. This mine is situated twenty-six miles from Virginia and about two miles in a northerly direction from Fort Churchill. The company intend commencing the erection of a mill in about sixty days, on Carson river. It will carry thirty stamps and is to be driven by water, securing the ready and economical reduction of their ores.

ABOUT CLOVES.—Cloves are produced by a tree which is a native of the Molucca Islands, and were, like nutmegs, a long time under the exclusive control of the Dutch Government, who for many years would not allow the trees to grow upon any except the island of Amboyna, from whence the highest priced cloves still come. The tree is from fifteen to thirty feet high, with large aromatic leaves and bunches of very fragrant flowers. The spice is the unopened flower buds, which are beaten off by means of rods and then dried. The little ball at the top of the clove is the unexpanded petals; by softening the clove in hot water these can be carefully laid open by means of a pin. The main portion of the clove is what would be the fruit if it was allowed to go on and ripen. Our word "clove" comes from the French *clou*, a nail—that being the name by which the French call them, on account of their resemblance to a little nail. They contain a good deal of volatile oil, upon which their value depends. This oil is sometimes extracted in part and the cloves afterward sold. These can be told by their lighter color, and by having the buttons or rounded portion broken off. Cloves readily absorb a considerable amount of moisture, and it is the custom of large dealers to keep them in a rather damp place, in order to make them weigh heavily and look fresh and plump. It is bad economy to buy cloves or any other spice in the ground state, as, aside from the risk of adulteration, the oil is absorbed by the paper in which they are put up.

THE SILVER EXCITEMENT in the Lake Superior region is still on the increase. The Detroit *Free Press* says speculation has already commenced. Men who have taken lands at $1.25 an acre, are selling out at advances of thousands of dollars upon the original cost of their tracts. One tract has been sold for $6,000; the owner bought it a few weeks ago from the Government for $200. The specimens of ore contain liberal quantities of lead and silver.

MINING GOSSIP.

EDITED BY FRANK WARDNELL.

[In this department of the MINING AND SCIENTIFIC PRESS we propose to give various and brief accounts of mining companies, and shall, under all circumstances, write *plainly* respecting their merits and de-merits; furthermore, we shall bring to light such transactions as may come within our knowledge regarding the "Bulling and Bearing" system and the "underground" actions of both Trustees and Brokers. We are vain enough to suppose, at all events, that we have the "inside track," and shall, without *hesitancy or fear*, give to the public, from time to time, a peep behind the scenes whenever the occasion justifies. If, in doing so, at any time we have fallen in error as to our report, and it can be so proven, nothing will afford us more pleasure than to make the "*amende honorable*" by correcting the same. We shall feel under obligations to those who are interested in stock if they will communicate to us such items as may come under their observations, and which will prove interesting to our readers. This department is open for free disension to "one and all." Our object is to render justice to every one. Communications, in all cases, must contain the author's name and address to insure publication, which will be kept *strictly confidential*—otherwise no notice will be taken of them.]

NOT A BAD IDEA.—We overheard the conversation of a well-known broker in this city, the other day, who, among other remarks, said: "It is no use talking; if times don't improve in the stock market, and thus give the bulls and bears an opportunity to get even in their late unlucky operations, I don't know what will become of them all;" and, he added laughingly, that the most advisable plan would be to petition to the Legislature to have established, in this city, a home for destitute brokers, for he had not the least doubt but it would, ere long, have plenty of inmates. We thought to ourselves it was not a bad project, by any means; and, if the edifice should be built we would suggest that the building should have four prominent wings, to be called respectively the Wide West, Santiago, Real del Monte and Burning Moscow. The inner sections or rooms might have such pleasing names as Cbollar, Coso, Josephine, etc., which would bring back to the memories of the brokers fond recollections of the past.

APPOINTMENT.—Mr. Ferrie having declined the appointment of Government Inspector of Coal Mines for the eastern division of Scotland, the Secretary of State has conferred it on Mr. Ralph Moore. This gentleman having *satisfactorily passed his examination*, under Mr. Warrington Smyth, has entered upon the duties of his office.

While reading the above item, which we extract from the *Mining and Smelting Magazine*, published in London, the thought occurred to us, whether if our numerous Superintendents of mines in this country were called upon to undergo such examination, how many would be capable of doing so satisfactorily? We may be mistaken, however we will venture the assertion that not one-half of them could do so; and yet people wonder why it is that our mining operations are conducted in such a careless, extravagant, unbusiness-like manner. It would prove a great blessing to those interested in mineral pursuits if they had a Board of Examination established in this country.

LAGER BEER LEDGE.—A gentleman of this city, a few days since, received a long letter from a friend of his residing in Como, Nevada Territory, in which he stated, among other matters, the following:—"A while ago, I made mention of the beneficial effects which the lager of the Como Brewery was having in promoting an increase in our population, and I now have to tell you that within the last few days the entire brewery is discovered to be posted directly on top of one of the finest kind of ledges, of as rich looking quartz as one might wish to see. The ledge is 'blind,' not appearing on the surface at all, but is now found running directly through the cellar, where the beer is kept. It may not have been the remarkable qualities of the beer which produced this ledge, but there certainly was no such ledge known of before the brewery was placed there. It is called the 'Lager Beer Ledge,' and the Whitman Company are sinking a fine shaft in order to prospect the same fully."

PRESENTATION.—Mr. Warren Rose, First Assistant Foreman of the Mexican mine, was the lucky recipient, on the 6th inst., of a very valuable and handsomely engraved gold watch and chain. It was presented to him by Messrs. Hay, Gorrish and Johnson, a committee acting on behalf of the employees.

THE BULLS AND BEARS IN A SQUABBLE.—This seems to be, indeed, a fighting time generally. Even the stock speculators down in Wall street, and the grain and flour speculators at the Corn Exchange, have had their beautiful "set-to" the past week. The stock brokers tease each other by dropping pennies down each other's backs on 'Change, and the provision men throw bits of dough, in the flour market, at each other's heads. This kind of fun, at last, degenerated into fisticuffs, and they went at it *a la* Heenan and King. The feuds broke out two or three times, but the Board finally interfered, and peace was restored. I only wonder, seeing the wide license for humor allowed at these 'Changes, that more of these disorders do not occur. I know one broker who never leaves the Board without shaking out at least a dozen nickels that have been slyly dropped down the neck of his coat to provoke him. Throwing dough is much worse, I think.—*Satanella's Letter from New York to Morning Call.*

So it seems this is not the only place where pugilistic science is brought to bear in occasionally settling disputes relative to stocks, etc. We were under the impression, until now, that this was the only locality where knock-down arguments were so frequently used; but we must frankly "acknowledge the corn," and say we are far more satisfied with the conduct of our brokers after reading the above disgraceful actions.

TUCKER AND GARRISON DIFFICULTY.—The case of W. R. Garrison *vs.* John W. Tucker, wherein the latter gentleman is charged with forwarding to this city numerous false dispatches, came up in Judge Shepheard's Court on the 10th inst.; but, upon application of the prosecution, it was continued. We noticed Mr. Tucker in Court, as "hold as a lion," and with a determination, as he said, of seeing the matter through. His witnesses were ready for action, and "eager for the fray;" but the continuance was granted in conformity to a rule with the Court, that either party can secure a continuance upon the first calling of any case. This case is looked forward to with much interest by the public.

A GOOD REPLY.—The Trustees of the Real del Monte took the responsibility upon themselves to levy an assessment of $20 per share, without condescending to consult the wishes of the stockholder's committee. Mr. Robbins, learning of the fact, got out an injunction against the assessment. The next day he was sent after, when some of the Trustees asked him to withdraw the injunction and have arbitrators appointed. His reply was, "No! gentlemen, never; my arbitrator is the Supreme Court, and the attorney Mr. McAllister, to whom I most respectfully refer you in behalf of the stockholders."

SANTA ROSA G. & S. M. CO., VIRGINIA.—Another very encouraging letter has been received by the Trustees of this company, from their new Superintendent, Mr. Cummings Cherry. He also forwarded several different grades of the ore which he is now taking out of the mine. The stock has been quite active in the market during the week, and continues to advance gradually. Holders of the stock seem to be very sanguine as to their prospects, and we should not be surprised to see it touch high rates in market value, if the reports we hear concerning it are correct.

DEMAND FOR "FEET."—A suit has been commenced by a Mr. R. West against the Trustees of the Ophir of the Colorado Mining Company. He desired to force them to issue him certificates of their stock, which he avers belongs to him, as he is one of the original locators, and is entitled to two hundred feet of the said claim. They having refused to do so, he thus asks for his rights in the matter.

IMPROVEMENT.—The Pacific Board of Brokers intend at once to enlarge their present beautiful board room to double its size. When completed, this will be one of the finest board-rooms in the city. They have progressed wonderfully lately, and we would advise our friends of the First Board to look well to their laurels, or else they might get beaten on the "home-stretch" yet.

THE REAL DEL MONTE MEETING.—The meeting of this company was held at Blumenburg's hall, Pine street, last Saturday evening, March 5th, and, as nearly as we could estimate, there were two hundred and fifty stockholders present. R. E. Brewster, President of the company, took the chair, called the meeting to order, and stated that the object of the meeting was to inform the stockholders respecting the condition of the mine. A report from Mr. Attwood was then read (this gentleman having been employed by the president to examine the mine) he says that the present working does not show very favorable in one or two of the shafts, but by working the several shafts or ledges in a proper manner, he had *no fears for the final result*. He entertained hopes of the Real del Monte mine proving a good paying investment, as it had now an able superintendent. The secretary then read a letter dated February 20, from the superintendent, which spoke flatteringly of the indications but gave no specific information. It also mentioned the destruction of the engine belonging to the company's mill and recommended the purchase of a new horizontal engine to replace it, which would be better for the purpose, and at a cost of $6,000 could be got to work in from forty to sixty days from the time of purchase in this city.

The financial report was then read from which the following items were gathered: The total assessments paid on the stock of the company was $101,-133.39. The total bullion taken out of the mine up to date was $519,023.95 from which the freight to this city, discount on bars, and cost of crushing being deducted left a balance of $317,000. The whole indebtedness of the company at the time was $270,-748.98. A list of the claims which had been purchased by the company after long litigation was read, by which it seems that the adverse title to ground claimed by the company cost $278,692.65 while the cost of law suits and expenses incurred prior to purchasing footed up to $98,225.42.

The president next read a despatch which he had received from the superintendent of the mine that day, which stated that the ore both in the upper and lower levels worked was improving greatly in value, after which the stockholders called an informal meeting, and elected Judge Heydenfeldt as chairman, to receive the report of the committee appointed at a meeting held about a week ago. The report was read by Mr. J. J. Robbins, showing an abstract from the books of the affairs of the company, substantially the same as the report of the secretary, with the exception of pointing out several amounts of the liabilities which, in the judgment of the committee, were illegally contracted by the trustees. The report of the committee was not very flattering. The committee also recommended that a rigid investigation be had as to the causes of those expenditures, and such steps as will hold their agents to strict accountability. After some questions put to several of the trustees, explanatory of the nature of several transactions, a motion that power be conferred upon the present committee to investigate the affairs of the company fully, as also to consult with the trustees in adjusting conflicting claims outstanding now, and report to the stockholders whether to compromise or litigate the same, was adopted.

The meeting adjourned at ten and a half o'clock to meet again at some future day at the direction of their president. The general impression of the stockholders seemed favorable as to the value of the mine, and the conclusion appeared to be that it would be redeemed from its present unfortunate position. There appeared to be but one opinion as to the scandalous manner in which the affairs of the company have been conducted.

PERSONAL.—Mr. Merriam left here last week for Owen's River, having been sent there by a company of capitalists of this city to locate different mining claims. While away, he intends looking after the interests of several leading mines, among them we learn is the East Lynne, a very promising mine. We wish him a pleasant trip.

GOOD-BYE.—Mr. John S. Henning, Superintendent of the North American mine, who has been in town for some days past, enjoying the good things of this life, intends taking his departure for the mine on the 14th inst. Good-bye, ye lucky youth!

[Written for the Mining and Scientific Press.]

REESE RIVER.

A guide to the Reese River and Humboldt silver mines, by Harrison Wheelock, has just been published by Towne & Bacon. In the map accompanying the work, the Reese River region is shown by districts, the Humboldt region at large, and the Big Creek Cañon in detail. Twenty-six pages out of twenty-nine are devoted to the Reese and Humboldt regions, and dedicated to the former; the appendix containing metallurgical tests, forms for incorporating claims, table of distances, and information of a general character.

The author advises the reader, if he goes at all, to go on horseback—that is purchase himself a plug, for $40@75, at Sacramento, Carson City or Virginia, array himself in homely apparel, hang a bag of lunch, a six-shooter and a canteen on the horn of the saddle, and tie carefully behind the same two pairs of substantial California blankets. You may then establish your headquarters in the saddle, and wheel off. As a recollection of the desert strikes us, we may add that, on the whole, your horse had better be a mare.

The principal towns at the present time are Clifton and Austin, in the Austin Cañon. They are about to be, if they are not already, incorporated into the city of Austin. The villages of Jacobsville and Yankee Blade are also situated in the Reese River district; the former being noted for its mills, and the latter for the mines in its immediate vicinity. It is claimed by some of the owners of ledges here that they unite the two formations, slate and granite, having the latter as a foot-wall and the former as a hanging-wall. This is a very favorable criterion of their durability. Austin Hill, on the contrary, presents a thousand examples of streaks of decomposed quartz, termed ledges, located in granite alone. Do they remain permanent, or do they "run out?" Ask the Post-Hole, Belle Shields, *et id omne genus*. Out of the twenty-five hundred claims located in Reese River District, we boldly venture the assertion that one year hence there will not be fifty worked. If ledges cased in granite are permanent, all science is at fault, and we must begin anew. There are several quartz mills in the towns of Austin and Clifton, which have been running at intervals only.

The Amador District was formed in November last. There are quite a number of claims therein that promise well. The Amador and Wildwood Tunnel Companies are running parallel to each other, and engaged, night and day, working three shifts of hands. Several promising ledges have been found by them. This district is directly north of the Reese River District.

Mount Hope District is next north of Amador, and south of Mount Vernon District. Although but slightly prospected as yet, they promise to contribute to the general richness of the country.

Big Creek District contains Big Creek Cañon, in which are laid out Lander City, Cañon City, Watertown, Middletown and Montrose. These embryo cities must eventually be merged into a large town, occupying the whole cañon. This cañon will not suffer by comparison with Austin Cañon, possessing, as it does, a 250-inch stream of pure water. It is the natural centre of the mines already discovered, and will have a brilliant future. A toll-road is now being made over the divide formed by the Toyabee mountains to Santa Fè and Summit Districts. Big Cañon lies about 12 miles southeast of Austin, and contains six quartz mills, which will all be shortly in operation. The town of Washington, in Washington District, is 22 miles southeast of Big Creek. In the vicinity are a number of claims that promise well, if we may judge by the work from them. Very little work has yet been done in this district.

Simpson's Park District lies between Reese River and Big Creek. We here find the slate and granite formation, and the ledges are consequently larger and much better defined.

Smoky District lies east of a portion of Simpson's Park and Big Creek Districts, the Toyabee range intervening. The ledges in this and Santa Fè District are of mammoth size when compared with the other districts in the Reese River region. The casings are also of the most favorable character. The greatest drawback we know of is the meager supply of timber. Two hundred feet in a ledge here sold a few weeks since for $10,000.

Santa Fè District, which lies south of Smoky District, has claims very similar in size and casings to those of Smoky. In these districts alone there is sufficient silver to build a city of solid silver bricks. The Maryland and Loyal ledge are given by Mr. Wheelock as district locations. They are one and the same. The mistake has probably arisen from the fact that before this favorite claim was incorporated it was known by the latter name. Geneva is the name of the principal settlement in Smoky District. It is likely to become a place of some importance, as two quartz mills are about to be erected there. Guadalajara, sixteen miles south of Geneva, in the Santa Fè District, is laid out for a city, which it is never likely to become, there being a much better location at the mouth of Big Smoky creek, four miles below. The most direct route for teams for this place will be by Big creek, so soon as the toll-road is completed over the divide. At present, they go by Austin and Smoky District.

Summit District is the next district south of Santa Fè. It possesses an abundance of good water and timber, and the mineral wealth contained within its borders must eventually make it favorably known. The want of good roads to mills is its greatest drawback.

Smoky Chimney and La Plata Districts lie south of Summit. At present, we can only say of them that they possess some favorable indications.

Marysville District is south of Washington, and the most southern district of the Toyabee range. But little is yet known of the relative merits of this when compared with other districts.

San Antonio District was discovered and formed last November. It is 130 miles southeast of Austin. The richness of this locality has been greatly exaggerated. Water and timber are wanting, and the ledges will not compare, either in size or richness, with those of Santa Fè or Smoky. Silver-bearing rock exists there, however, and a number of claims have been located.

What has been said of the San Antonio may be said of the Cortez District, which is about 70 miles south of Austin.

Union District, in the Shoshone range, about 60 miles southwest of Austin, contains very favorable indications.

Ravenswood and Augusta Districts, on the west side of Reese Valley, are known to contain a number of good ledges.

Mr. Wheelock's pamphlet contains the names of the most prominent ledges in the different districts, and, so far as we know, he is generally correct. We must, however, differ with him as to the comparative wealth of some of the districts. ***

Mechanics and Engineers will find a large portion of our paper devoted to their especial benefit. All important implements in machinery, and inventions of general interest wherever made, will be found carefully noted in our columns, and whenever the facts are attainable, they will be fully described and often illustrated. Quartz mining and mechanics are so intimately connected, that a paper especially devoted to the former interest cannot well fulfil its office without paying a large share of attention to the latter. We trust therefore that the mechanic as well as the miner, will take an interest in the success of the Mining and Scientific Press. We desire to make our journal a vehicle of intercommunication between mechanics as well as miners; and to that end have devoted so important a space in our columns to mechanical interests. We invite contributions to that department. Let the miner and mechanic go hand in hand, for by so doing both will be materially benefitted.

The Daily American Flag.—Mr. D. O. McCarthy, editor and proprietor, announces the first appearance of the above named journal, in this city, on the first Monday in April next.

Phœnix Insurance Company.—This solid old company have announced their pleasure to comply with the new law, requiring a heavy deposit in bonds in this State.

The Lower Coast Range.—Encouraging reports continue to reach us from the mines along the lower Coast Range. The development of the copper lands in the lower portion of Monterey county, according to the *Gazette*, are "cheering." That paper thinks that Monterey will soon become an important copper-shipping port.

The Red Bluff *Independent* is informed that "the whole country, for twenty-five and thirty miles west of Red Bluff, is alive with people prospecting. Some ledges have been discovered a few miles from Nome Lackee Reservation. In a short time we may expect the farmers to be hauling their rock instead of their grain to the Red Bluff steamboats."

A correspondent of the Stockton *Independent* writes from Murphy's that quite an excitement was created in that place, recently, in consequence of rich developments made in the "Noble Copper Mining" claim, situated on San Domingo creek, about three miles from the town of Murphy's. This development promises to open up a new copper region, and, judging from what is said about claims in that locality, copper stock will be very valuable.

The Nevada *Transcript* says they have commenced operations again on the famous Well Lead, near the Zinc House, and are driving ahead, in taking out ore, very rapidly. The *Transcript* further understands that the Pocahontas Company, located at the lower part of Nevada county, struck some rich copper ore, in their claim, one day last week. A great many companies in the copper regions are making extensive preparations to go to work in earnest.

The Plumas county *Union* says of one of the principal copper mines in that county that some six or seven tons of the ore were sent to Swansea, England, for reduction, and the ore payed 57 per cent. in copper, and silver at the rate of $140 to the ton. This ledge on the outcrop is ten or 12 feet wide, and the ore taken was of course the best of the lot blasted out, but the mass of the rock will pay at least 35 per cent. If Plumas has much of such ore as that, she will do well.

The Sonoma *Democrat* says:—"Reports reach us of the most flattering nature of the mining prospects in the upper end of this county. The Blue Buck company on Dry Creek, the Olive company on Russian River, and the Willow Springs company in the same locality, have all at last found the diligently sought for ledges, and the prospects promise a rich harvest to the shareholders. Several gentlemen from San Francisco have visited the mines this week with a view to making investments."

Send them East.—Do you buy papers to send to your friends at the East? If so, please reflect that no other paper published in the State can be more acceptable to the majority of your friends than the Mining and Scientific Press. It contains a very large amount of valuable reading, nearly all relating to California and her leading interests—just the kind of general information you would give your friends if you should write. It can be had at the office of publication, neatly done up in wrappers, for mailing, at one bit per copy.

Caution.—Parties incorporating mining companies, who desire the choice of advertising in either a daily or weekly newspaper, should be particular to cross out the word "daily" when using the form of blank by-laws printed and sold by the stationers of this city. Many stockholders have been surprised to find an imperative provision in their by-laws for advertising all notices in "some *daily* newspaper," and have consequently amended them.

New Machinery.—The Hale & Norcross Mining Company are having built, at the Pacific Iron Works, of this city, a fine 10-inch 100-horse-power engine, a hoisting engine of 50-horse-power, two boilers, gearing, etc. The work is under the superintendence of Capt. Phillips, the engineer of the mine.

Freight.—Immense quantities of freight has been shipped during the past week for the Idaho mines. Vessels taking freight for that destination have been actually overrun, and there is room enough left to fill several more as soon as they are ready to take freight.

Mechanical Department.

Railroad Switches, Signals, Etc.

In a late issue, we noticed a French invention for switching trains of cars from one track to another, which was automatic in action, being operated by rods attached to the locomotive, or the leading vehicle on the train, whatever it may be. We have now before us an illustrated description of an improved switch, in the *Scientific American*, for which much superiority is claimed. The mechanical arrangement of this switch consists in a stationary lantern, set with different colored glasses, and so attached to the switch that whenever it is moved a cog-wheel attachment brings to the view of the approaching train a color known, by previous understanding, to correspond to a certain track. H. H. Barnes, of Mexico, N. Y., is the patentee of this invention.

SOMETHING BETTER STILL—A CALIFORNIA INVENTION.

So many accidents are continually occurring from misplaced railroad switches, defective signals, and the carelessness and inattention of those who have the safety of hundreds of lives in charge, that any improvement in this direction must be looked upon as a matter of the utmost importance. As intimated above, we apprehend that we have at this office the drawings, etc., of a proposed improvement for switching railroad trains, which is altogether superior to either of the above or to anything else now in use. The invention to which we now allude has been made by Messrs. Griffith and McAuley, of this city, and for which preliminary steps have been taken, through the MINING AND SCIENTIFIC PRESS AGENCY, to secure a patent. The invention here alluded to does away entirely with all necessity for either switch or switch-tender. The moveable section of the track is also dispensed with; so that there is no possibility of accident from displacement of switch or carelessness of switch-tender. The apparatus is to be attached to the car or locomotive. It is very simple, as all our best inventions are, in its construction and operations; and is at all times under perfect and instantaneous control by the engineer or brakeman. It also assists in turning curves in the road. With one of these attachments to a car, we do not see how one of those frightful accidents could have happened such as lately occurred on a Missouri railroad, from the breaking of a rail on a portion of the curved track, in consequence of which the train was precipitated down a steep embankment. With the use of this arrangement it is almost impossible for a train to be thrown off while on a curve, or to press so heavily against the outer rail as to break it, even when full of frost, as in the case above alluded to. The chief object of its application to a curve is to prevent friction; by its aid the passage over such portions of a road is made almost as easily as along a straight line. The apparatus is designed for horse-cars upon street-railroads, as well as for steam cars, and requires nothing more than the application of the driver's foot to turn the car to the right or left, from one track to the other. This invention is well worth the attention of railroad men everywhere. Its cost is less than that of an ordinary switch.

THE WATEREE.—This war vessel is described by the Washington correspondent of the *Daily Journal* as a fast steamer, armed with ten guns—four of them nine inch, two rifled guns of 200 pounds each, and two twenty pound guns, with two howitzers of twenty pounds each. A mate to the Wateree, now building, and which will be ready to sail in six weeks, is also to go to California. In addition to this, the Navy department will contract with the loyal Californians to build in California three or four iron clads of the Monitor class—all the material, so far as possible, to be produced and manufactured in that State. The object of this is to establish on that distant coast the facilities for the creation of such vessels as the National exigencies may require. Mighty as is our struggle to maintain the unity and integrity of the Government on its own soil, those charged with its administration are evidently preparing for the dominion of the seas."

[Written for the Mining and Scientific Press.]

Steam and Electro-Magnetic Power.

EDITOR PRESS:—The article in No. 9 of the PRESS, headed "Improvement in Generating Steam," is an undoubted wild-cat emanation from Washoe. Wonder if an incorporation is intended? The idea that through any possible new contrivance a hundred per cent. more steam can be generated by an equal amount of fuel, is, in the face of the present perfection in boilers, simply absurd. Steam is water, and its impregnating air combined with heat, and thereby expanded; the same equivalent quantities being ever required for the same conditions of expansion. The like amounts of fuel, whether flashing with flame or slowly glowing, can only give forth the same fixed quantities of heat. No alteration of the surface of a given weight of water exposed to the effects of the same fire, can endow it as a whole with a greater amount of heat. The result of increasing the surface of exposure in boilers will be to multiply the energy of action, always provided that there is a proportionate increase in the consumption of fuel. It is merely in relation to the *time* of generating the same quantity of steam of equal pressure that any particular improvement can be made in boilers. No one, clearly understanding the subject, will believe that of the intense heat given off by a furnace fire more than a fractional part escapes combination with the water surrounding the flues of the boiler, and that small waste would seem to be inseparable from the necessities of draft.

Reference to steam and heat very naturally leads to the notice of another article in the same number of the PRESS, entitled, "A New Electro-Magnetic Engine." Scientific enquiries have led to the belief that heat is substantially motion, of which light, electricity and magnetism are the prime exciters in nature. Heat creates motion, and motion creates heat, and the one does not exist without the other. They are, therefore, though mutually convertible, unchanged in their relations to each other, whether discharged from decomposing fuel or chemicals, or excited by mechanical friction or force; and the amount that one body acquires some other must yield. The power or current giving movement to an electro-magnetic machine, when excited beyond a certain limit, becomes converted into an opposite current of magnetic induction, increasing in intensity with the speed, and finally arresting further motions. Demanding, as it does, the consumption of materials nearly similar to those to be put in motion, such as zinc and iron and powerful acids, the electro-magnetic power must ever be from ten to thirty times more expensive than that produced by coal or wood, I am at a loss to understand what is meant in the article by an "increase of surface," which is claimed to extend the power of the electricity at a diminished ratio of expense. I am aware of no electrical law applicable to this clouded statement. The same laws regulating the power and surface relations of heat and steam and that of electricity; and magnetism in itself seems to be but an active law curbing the natural electrical current of bodies, and causing them to move in circles of limited power and extent. Electro-magnetic force is always in exact ratio to the amount of zinc or other materials consumed in the battery; and it is necessary to decompose metals to produce that high energy capable of affecting movement at all. The Washoe and New York inventions seem to be of near kin to each other—both claim to apply the same fallacious principle to different forms of power, and both are equally founded upon ignorance of known physical laws.

Power or motion is one of the stored elements of nature. The question arises, what is the cheapest mode of unshackling the imprisoned power? Certainly, by creating varied relations of matter. The Creator has stored in the coal beds and vegetable forms, carbon, etc.,—the tools whereby heat may be unlocked from the oxygen of the atmosphere in the combustive process of forming carbonic acid. These elements are feeble in their antagonistic relations, and, therefore, more effective in their results. They but set free that tithe of power not needed in the new compound, yet engender great results by their energy of action. We strike but a spark, and a barrier falls, that only a much greater power can restore. There is no such near relationship in common electrical results; with electricity, vigorous powers only can separate and keep up action, and the effects are not commensurate with those powers. There is a straining beyond the mild operations of nature. In steam power, another superior element of gentle action, water, is used to absorb, and by its expansion accumulate pure heat for energetic effects. While the primary setting free of heat is a chemical operation, that of accommodating it with room is a mechanical one, and has no great restraining power in the sudden discharge of that heat, as has the magnetism of a body against its containing charge of electricity. Unless three materials can be found bearing the same analogous relations to electricity that heat does to oxygen, carbon and water, there can be no similar economy, or power, of results. Such a discovery I deem as impossible as perpetual motion.

E. A. M.

SACRAMENTO, Cal.

We give the above communication as received, not to endorse it, but to open a matter for discussion, should any of our correspondents see fit to take it up.

STEEL BOILERS.—Some very practical, thorough and interesting experiments have been made in Prussia with steel boilers, an account of which has been published in *Dingler's Polytechnic Journal*. A steel boiler of the egg end shape, 4 feet in diameter and 30 feet in length, without flues, was tried. It had a steam drum 2 feet in diameter and 2 feet in hight, and the plates were one-fourth of an inch in thickness. Beside it there was placed another boiler, similar in every respect, excepting that the plates were of iron 0.414 of an inch in thickness. The steel boiler was tested by hydraulic pressure up to 195 pounds on the inch, without showing leakage, and both the iron and steel boilers were worked under a pressure of 65 pounds on the inch for about one year and a half. During this period the steel boiler generated 25 per cent. more steam than the iron one, and when they were thoroughly examined after 18 months practical working, there was less scale in the steel than in the iron boiler. The former evaporates 11.66 cubic feet of water per hour; the iron boiler 9.37 cubic feet. The quantity of coal consumed was on an average 2,706 pounds for the steel one in 12 hours, and 2,972 pounds for the iron boiler. The plates of the steel boiler over the fire were found to be uninjured, while those of the iron one were about worn out. In Prussia, several worn-out plates of iron boilers have lately been replaced with steel, which, it is stated, lasts four times as long. As steel is twice as strong as iron, thinner plates of the former may be employed for boilers, and more perfect riveting can be secured. A greater quantity of steam can also be generated in the steel boiler on account of its thin plates, and thus much fuel may be economized. Such steam boilers should engage the attention of all who make and use steam boilers for engineering and manufacturing purposes.

A REMARKABLE instance of the destructive energy of pure steam as an expansive agent is related in the report for September last, of Mr. Fletcher, the chief engineer of the Manchester (England) Association, for the prevention of steam boiler explosions. A large hay-stack boiler, intended for a chemical establishment, was being tested with steam, at fifty lbs. pressure on the inch, not produced from water in the boiler and heated by a furnace underneath, but supplied by a pipe from another boiler. The boiler to be tested was laid upon its side, and six men were engaged upon it caulking its seams, when it exploded, the bottom being blown out entire and thrown upon the roof of an adjacent building at a distance of thirteen yards; and four of the men engaged upon it were thrown to a distance of forty yards, upon the roof of another building, one of them being instantly killed. We have never heard of another such explosion. In this case the pressure of steam was but fifty pounds on the square inch, and no extra heat or pressure could be supplied; yet a great boiler, the plates of which were from seven-sixteenths to half an inch in thickness throughout, was torn in pieces, and some of the parts weighing several hundred pounds, thrown to a considerable distance. The boiler was eleven feet in hight, eight feet nine inches in breadth at the base, and seven feet nine inches at the waist. When it is taken into consideration that at fifty pounds pressure on the inch, this amounts to 7,200 pounds on the square foot, some idea may be formed of the great amount of force that was confined in that boiler.

No especial cause is assigned for this singular explosion. May it not have been produced by the vibration caused by the hammering of the "caulkers" upon the sides of the boiler while under extreme tension? Might there not have been a change commenced in the texture of the iron, from fibrous to crystaline, by the "hammering," thereby weakening it to such a degree as to allow of the sudden disruption as described? Cannot some of our readers give us their ideas upon the above suggestions?

MORE SHELLS were discharged in the single battle of Gettysburg than were employed in all the battles that Napoleon ever fought.

Patent Department.

Improvement on the Arastra.—Mr. G. A. Lloyd has called our attention to an improvement in the process of reducing quartz sands, which he is about to put into practical operation at the European Ore Reduction Works in this city. Mr. L. ignores the "pan," altogether, and goes back to first principles—the *arastra*. He claims that from long practical experience in the use of pans he has become satisfied that stone surfaces are much preferable to iron for grinding quartz sands. He builds a substantial arastra, lines the inner sides with copper plates, as well as the sides of the drags or mullers, employs two circles of drag stones, which are carried around in opposite directions, and by which the pulp is thoroughly mixed, while it is being pulverized. Each muller is also made to revolve on its own axis when desired. The great drawback to the arastra arises from the tardiness with which it has hitherto done its work. This slow motion has heretofore been a necessity from its peculiarity of operation. By the compound motion above described, it may be run as rapidly as an ordinary pan. One great advantage of this machine grows out of its cheapness and simplicity. A small amount of gearing, a double set of arms and one or two pullies, is all that is required from the foundry. The balance of the machine may be readily procured at almost any mining locality. Mr. L. has applied for a patent.

New Amalgamator.—We witnessed the operation of an amalgamator at the Vulcan foundry, a few days since, constructed upon a principle quite novel in its application to grinding quartz sands. The sand is received quite coarse—as coarse as peas, and coarser still if desired—into a hopper from which it passes through a perpendicular shaped grinder, with corrugated grinding surfaces set at an angle so as to produce a gradual reduction of the particles of quartz as they descend. From between these surfaces the sand is passed into the bottom of the pan, where it is triturated between dies and mullers after the ordinary method of the pan process. The inventor of this pan is Mr. Albert Moore of this city. Applications for a patent have been made through the Mining and Scientific Press Patent Agency.

A Faucet Measure and Indicator has been patented by V. Squaza, of this city, which consists of an application to a faucet of a gauge tube provided with a double scale to indicate both the quantity of fluid remaining in the vessel as well as the quantity drawn therefrom.

"J. A. W.," Virginia City.—Your mechanical problem has been received. It is impracticable. Take a rope, say 50 feet in length, attach a weight of ten pounds to the centre; elevate the two ends, upon pulleys, to an angle of say forty-five degrees—the centre, with the weight, resting on the ground. You will readily see the large amount of power required to straighten the rope. Your levers are but another form of the same mechanical principle. This is one of those problems which come under the head of "parallelogram of forces," and is apt to mislead the inexperienced at first sight.

Science and Philosophy.—Science seeks to determine facts, to develop principles, to discover laws. Philosophy strives to obtain generalities from these discovered fragments, and to ascend from matter and its properties to the influences which affect them, and enquires into the superior and unseen powers which are constantly at work around us.

Different Colored Flames are due to the difference in the forms of the particles or atoms undergoing combustion; these atoms, during combustion, will reflect the peculiar colors, due to their forms, like the prism.

Knighthood is the reward Capt. Speke is to have for discovering the source of the Nile.

The Mining and Scientific Press Patent Agency.

OFFICE, 57, GOVERNMENT HOUSE, SAN FRANCISCO.

Information About Obtaining Patents.

The Patent Law Amendment Act, of March 4th 1861, and March 3d 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent? A positive answer to this question is only to be had by presenting a formal application for patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the Mining and Scientific Press. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Preliminary Examinations.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search, made at the U. S. Patent Office, Washington, through the medium of our associate in that city, to ascertain whether among all the patents and models there stored, any invention can be found which is similar in character to that of the applicant. On the completion of this special search we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollars. This search, though it involves the expense just named, will usually prove satisfactory. If the same device has been before patented, the time and expense of constructing models, preparing documents, etc., will in most cases be saved; if the invention has been in part patented, the applicant will be enabled to modify his claims and expectations accordingly. Many other obvious advantages attending the Preliminary Examination; although the strictest search does not always enable the applicant to know positively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publication; or some other person has been previously rejected on an analagous device; or some other invention for a similar purpose, but partially resembles the applicant's in its construction; or the Government makes an unjust or uncommon decision. Against none of these contingencies does the Preliminary Examination provide; it will, however, generally inform the applicant whether an improvement similar to his and used for the same purpose has ever been patented or not in this country.

Persons desiring the Preliminary examination are requested to remit the fee ($10), and furnish us with a sketch and description of the invention.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian, Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of governments that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues.—If the application is rejected we cause a thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have excess to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client. For this service we make no charge. If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The laws requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: Dewey & Co., Mining and Scientific Press, rooms 56 and 57, Government House, corner of Sansome and Washington Streets, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail.—The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due, and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued, the applicant will be notified to remit the last installment of the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Return of Models.

Under the new law, if the applicants case has been rejected he is entitled to withdraw his model from the Patent Office.

This law applies to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expense.

Application for Patents, Designs, Trade-Marks, Labells, etc.

Under the new law patents may be taken out for any new form of any article, also for tools, patterns, castings, machine-frames, stove-plates, borders, fringes, all new designs for printing, weaving or stamping upon silks, calicoes, carpets, oil-cloth, prints, paper-hangings, and other articles. Trade-marks, labels, envelopes, boxes and bottles for goods, may also be patented; likewise all works of art, including prints, paintings, busts, statues, bas-relief, or compositions in alto, or basso relievo, new dies, impressions, ornaments to be placed upon any article of manufacture, architectural work, etc.

Our facilities for the prompt preparation and securing of patents are of the most extensive character and our charges are very moderate.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the tariff of fees established by law:

On every application for a design, for 3 years and six months	$10
On every application for a design, for seven years	15
On every application for a design, for fourteen years	30
On every caveat	10
On every application for a patent	15
On issuing each original patent	20
On filing a disclaimer	10
On every application for a re-issue	30
On every additional patent granted on a re-issue	30
On every application for an extension	50
On the grant of every extension	50
On appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, D. C.	25

Infringements.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunction from the Court, to an arrest of or prohibition from the employment of his machinery, shop, works, factory and men in production of the article.

In addition to injunction the infringer is liable to be mulcted in treble the amount of damages awarded by the jury. The maker, the workman, the seller, and the purchaser, if a user, are all liable either collectively or individually.

Having access to all the patents, models, public records, drawings and other documents pertaining to the Patent Office, we are prepared to make examinations and give opinions upon all infringement questions, advise as to the scope and ground covered by patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Appeals.

In rejected and other cases, the new law provides for an appeal from the Examiner-in-chief to the Commissioner in person, on the payment of a fee of twenty dollars. A further appeal may be taken from the decision of the Commissioner to the U. S. Court, of the District of Columbia. These appeals are heard by any of the Judges before whom the applicant elects to bring the case. No Jury. All the papers, models, etc., are sent by the Commissioner to the Judge, who then reviews the case, and either sustains or reverses the Commissioner's decision.

The party taking the appeal pays an additional fee of twenty-five dollars. The Judge appoints a day of hearing. The applicant can appear in person or by counsel to state his case and file a written argument. Five days are allowed the opponent to put in an answer, and a similar period to the appelant for a closing reply.

Many important cases are brought before the Judges on appeal and the decisions of the Commissioner are not unfrequently reversed.

We have had successful experience in conducting these appeals, and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, Government House corner Sansome and Washington streets, San Francisco.

Mining and Scientific Press.

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AMERICAN AND FOREIGN PATENTS.—Letters Patent for Inventors can be secured in the United States and foreign countries through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past year.

FAVORABLE TO INVENTORS.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the MINING AND SCIENTIFIC PRESS, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

Will be Discontinued.—After this date subscriptions not paid for in advance will be discontinued. As soon as possible bills will be presented for all arrearages. Parties who receive a paper from the office of delivery cannot evade the LAW requiring payment for the same. We shall in future keep no continued accounts with subscribers, and the subscriptions of ALL friends and patrons will be treated alike.

San Francisco:
Saturday Morning, March 12, 1864.

EARTHQUAKES.

Earthquakes are a complex phenomenon, referable to a diversity of causes. Their occurrence in a given region may no doubt be attributed to a special, local cause, entirely differing from the cause which may produce similar effects in another region. Again, various causes may act conjointly, or under various mutual modifications. The phenomena of earthquakes have been made a matter of much investigation, and long continued and close observation. Great numbers of facts have been carefully noted, and well established. No single theory has yet been proposed which will account for all, or even the half of the facts established. When subjected to rigid investigation, all the theories yet enunciated are found to fail, at times; generally in a majority of cases, always in a large proportion. Some idea may be formed of the amount of attention which has been devoted to this class of investigation from the fact that one important theory has been based upon the observation of more than *six thousand* days of earthquakes!

Modern appliances and facilities are opening great opportunities for observation in this direction as, indeed, in almost every other department of scientific research. For instance, the Government Coast Survey has had, and probably now has self-registering tide gauges at this port (San Francisco.) San Diego and at the mouth of the Columbia river, which record the rise and fall and time of tide at those several points upon a continuous sheet of paper, moved forward regularly by clock work. It was by this instrument that we were enabled, to announce upon this coast, the probable occurrence, in a distant quarter, of a great earthquake, weeks, if not months before it was made known, by due course of mail. It will be recollected by most of our readers that in December, 1854, Simoda, in Japan, was visited by a terrible earthquake, which completely emptied that harbor of its water, and left even ships of war upon dry land, which but a moment before had been proudly riding at anchor. Of course such a disturbance created an immense wave, which swept over the greater part of the Pacific ocean. It was felt in this harbor in just twelve hours and sixteen minutes from the time the shock spent its force in the harbor of Simoda. The clock work register, above alluded to, promptly and faithfully recorded its appearance, and told our citizens, one bright calm day, that a series of earthquake waves had visited us, recording their maximum hight as seven-tenths of a foot. That wave had traveled 4,800 miles and occupied half an hour in rising and falling. It was followed by several smaller ones, in quick succession. A similar record was made at San Diego.

The great earthquake at Lisbon sent a wave quite across the Atlantic ocean. It was felt along the coast line of America from South Carolina on the south, to about the middle of the Labrador coast, on the north.

The gradually increasing extent of telegraphic communication, is greatly facilitating observations with regard to the time, extent and velocity of these waves, all of which data are of much importance in investigating the producing causes of these wonderful phenomena of nature.

Earthquake waves are not confined to the water. They are also developed upon land, and what may appear somewhat strange to the uninitiated, they move far more rapidly through that element than through water. An earthquake wave travels through water at the rate of about seven miles a minute; through earth at the rate of from fifteen to fifty or eighty. Its rate in water is nearly uniform from the fact that that element is quite homogeneous; while in passing through land or earth the advancing wave is oftentimes retarded by having to traverse various descriptions and strata of ground, often encountering caverns, fisures and seams which greatly retard its velocity. The more dense and homogeneous the body the more uniform the transmission of the wave.

Numerous and well attested observations prove beyond a doubt, that the undulating motion felt during an earthquake is *a "wave,"* and quite similar in character to an ocean wave. We will instance several observations which are well authenticated, and which have been employed, in the way of illustration by Sir John Hershel. We quote:—

"The way, then, that we may conceive an earthquake to travel, is this:—I shall take the case which is most common, when the motion of the ground to and fro is horizontal. *How far* each particular spot on the surface of the ground is actually pushed from its place there is no way of ascertaining, since all the surrounding objects receive the same impulse almost at the same instant of time, but there are many indications that it is often *several yards.* In the earthquake of Cutch, trees were seen to flog the ground with their branches, which proves that their stems must have been jerked suddenly away for some considerable distance and suddenly pushed back; and the same conclusion follows from the sudden rise of the water of lakes on the side where the shock reaches them, and its fall on the opposite side; the bed of the lake has been jerked away for a certain distance from under the water and pulled back. Now suppose a row of sixty persons, standing a mile apart from each other, in a straight line, in the direction in which the shock travels, at a rate we will suppose, of sixty miles per minute, and let the ground below the first get a sudden and violent shove, carrying it a yard in the direction of the next. Since this shock will not reach the next till after the lapse of one second of time, it is clear that the space between the two will be shortened by a yard, and the ground—that is to say, not the mere loose soil on the surface. but the whole mass of solid rock below down to an unknown depth—compressed, or driven into a smaller space. It is this compression that carries the shock forward. The elastic force of the rocky matter, like a coiled spring, acts both ways; it drives back the first man to his old place, and shoves the second a yard nearer to the third, and so on. Instead of men place a row of small buildings, or columns, and they will tumble down in succession, the base flying forwards, and leaving the tops behind to drop on the soil on the side from which the shock came. This is just what was seen to happen in Messina in the great Calabrian earthquake. As the shock ran along, the houses on the Faro were seen to topple down in succession, beginning at one end and running on to the other, as if a succession of mines had been sprung. In the earthquake of Cutch, a sentinel standing at one end of a long straight line of wall, saw the wall bow forward and recover itself, not all at once, but with a swell like a wave running all along it with rapidity. In this case it is evident that the earthquake wave must have had its front oblique to the direction of the wall."

The earthquakes to which we have more particularly alluded were doubtless produced by deep seated disturbances, most likely originating in the high temperature of the far interior of the earth. We so judge mainly from their great severity and wide spread effects, the shocks traversing through and beneath extensive mountain ranges and across wide oceans. A large majority of the earthquakes recorded are of a milder type, some of which may doubtless be attributed to the same causes as above noted, but variously and more geutly developed; while many, most likely, have their seat of disturbance nearer the surface, and are caused by sudden chemical changes, occurring within the solid crust of the globe, without any connection with internal fires. This leads us to speak more particularly, but briefly, of

CALIFORNIA EARTHQUAKES.

There are many reasons for believing that the earthquakes which are of such frequent occurrence throughout the valleys and Coast Range of California are produced by the minor agencies alluded to. A noticeable fact connected with California earthquakes is, that those felt on the coast and in the valleys seldom if ever extend to the Sierra Nevada Range. Among all the shocks which have been experienced in San Francisco since the advent of the gold seekers, we have no recollection that any one of them has been seriously felt beyond the lower foot hills; and *vice versa.* The earthquake which was so sensibly and extensively felt throughout the Sierra Nevada, and upon both its flanks, in the summer of 1860 (we believe we are correct in the date) was but barely perceived, if at all, in Sacramento, and not at all west of that city. These circumstances go far towards establishing the theory, we have suggested, with regard to the seat of earthquake disturbances in the valley portions of the State, and to disprove the idea that they are consequent upon the internal fires which are supposed to have a permanent existence but a few miles below the earth's surface.

We do not recollect having seen any recorded observations, or speculations even, upon the fact, but we have been led to conclude, from the general directions which California earthquake waves appear to take, (from N. W. to S. E.) and from the limited spread of the waves in an east and west direction, that the strata connected with the Sierra Nevada range of mountains entirely underlies, not only the Sacramento and San Joaquin valleys, but probably the Coast Range also. If such be the fact it would follow as a matter of course, that any disturbance of the strata *above* this underlie would have very little tendency to effect the Sierra Nevada mountains. It is a well known fact that a certain class of earthquakes throw out their waves, in concentric circles, without any reference to the direction of opposing mountain chains, passing freely across and through them, while others move longitudinally along extensive valleys, or along the direction of mountain ranges. The seat of disturbance in the latter class is evidently near the surface, and it is to that class that our California earthquakes undoubtedly belong.

We apprehend there can be very little doubt but that the dip of the Sierra Nevada completely underlies the seat of earthquake disturbance in the Sacramento valley and Coast Range region; hence we have but little reason to fear any very serious disturbance, such as would endanger the stability of buildings, etc., which have been erected with due regard for ordinary contingences. If this hypothesis can be sustained it will afford a vast amount of relief to the more sensitive portion of our population, both in the city and at the mines.

Notwithstanding the apprehensions that have been felt in many quarters that we may yet be visited with a destructive earthquake, we believe there is

no tradition whatever, among the Indians, that such an occurrence ever took place. And we have the evidence of the existence of "rocking stones" in various parts of the Sierra Nevada mountains, which must have required the slow wearing of the elements for thousands of years, to have brought them to their present condition. Many of these stones would topple over under the shock of an earthquake wave which would scarcely effect any ordinary structure of human hands.

MINING SHARE MARKET.

The Mining Share Market has been very much depressed during the past week. With a few important exceptions, stocks have generally declined. The total transactions of the week foot up at $951,491 75.

Ophir found purchasers early in the week at $1,650, and sold on Friday at $1,618 exclusive of dividend of $48 per foot, which was declared on the 7th inst.

Gould & Curry still remains inactive; it found a seller on Friday at $4 630, at which figure it was again offered yesterday without buyers.

Chollar is inactive at a small decline. We note sales of 24 shares from $390@400, buyer 30 days. Nothing further is said of the reported improvement of the ore in the 3d gallery.

Daney has met with an important decline. On Saturday last it touched $225; opened on Monday at $195, reached $205 on Tuesday and suddenly dropped to $160 at last evening's board; 205 feet have changed hands during the week.

North American has not been so much enquired after. It has found purchasers during the week at from $100@109, closing at $105 firm.

Lady Bryan still continues in large demand, ranging from $45@56 at and between which figures 2,107 shares have changed hands since our last issue. It closed at last evening's board at $49.

Burning Moscow has maintained about its last week's figures, meeting with quite a large business. Sales of 154 shares were made yesterday at from $98 to 112—closing at 100.

Nevada (Justice Ground) still continues to improve. Being held firmly during the first days of the week at last quotations; bidders suddenly advanced their figures yesterday from $225 to 235 and 240; the closing sales were made at the latter figure.

Lafayette has been less enquired for, and has found sellers at an important decline, closing at from $14 to 16.

Uncle Sam has been in more demand but at a reduced figure. Its highest figure the past week has been $805; it may be quoted firm at 800.

Yellow Jacket is more in favor at a material advance. It has found buyers at $1,050, closing firm at 1,010. New and important improvements are being made at this mine which, when completed, will greatly facilitate the labor of raising the ore.

Crown Point is again enquired for. This stock has found sellers at from $850@950, closing at the latter figure.

Savage has greatly declined and fails to find buyers at $2,800—a decline of $600 from recent quotations. The closing bids are $2,650. This important decline is attributable to the unfavorable complexion which its suit with the North Potosi has suddenly assumed.

North Potosi, for the above reason, still continues to improve. Closing last week at $71, it has advanced gradually to $94, at which figure it found buyers at last evening's board. Its tendency is still upward.

Empire Mill and Mining Company has found buyers the past week at $1,050@1,025. We last week inadvertently gave additional circulation to the error which found its way into the city papers, that the dividend declared on Monday week was "$40 per foot." It should have read $40 per share. As there are 16 shares to the foot in this claim, the dividend was nearly $640 per foot, instead of $40—a very material difference. There are only 75 feet in this claim.

We quote Imperial at $157½, a slight decline from last week; Pride of the West at $87; Melones has touched $55—may be quoted firm at $50; Norton at $4; Baltimore American at $41; Baltic has found buyers at from $150@160; Blue Ledge at $20; Bullion, (G. H.) $80; Buckeye $21.

Caledonia Tunnel has been largely enquired for, and closed at $25 cash, $27 buyer 30; 345 shares have changed hands.

Santa Rosa is meeting with considerable favor at improved rates, closing at $10, buyer 30.

We quote Crocket at $20; Adriatic at $9; Burnside at $13; Crocket consolidated $14½; Michigan $20; Moss, (Va.) $30; El Dorado $30@42½; Gov. Nye $5@5½.

Justice has found buyers at $230; South America at 21; Baltimore American at 41; Whitman at 65 to 70; Bajazette at 65; Harmon may be quoted at 37½@40; Lucerne at 21; Kniekerbocker firm at 40; Michigan at 25.

Real del Monte has been the chief feature of the week; 2,340 shares having changed hands. Opening at $42 it dropped to the low figure of $34 on Wednesday; closing firm at 50 at yesterday's board, with an upward tendency.

Antelope still keeps up, notwithstanding the unfavorable excitement with regard to Esmeralda stocks. Wide West may be quoted at $20; Esmeralda $8; Silver Hill at $10; Coso at $5½.

Napoleon (copper) may be quoted at $60@69 buyer 30; Josephine at $7½.

Esmeralda.—We quote Sheba $125; De Soto $45; Magna Charta $10; Ben Franklin at $6; S. F. City $7½.

Reese River.—We quote Cicero at $35; East Lynn at $20.

WASHOE STOCK MARKET.

Collated from the Regular Reports of the Virginia Daily Union to Latest Dates.

Considerable business is still being done in mining stock in Virginia City and Gold Hill. Two stock boards are in successful operation at the former place, and a second will soon be established at Gold Hill. Claims in American Flat still continue to form the chief attraction. According to the report of the *Union*, ground in this locality is not altogether arbitrary, as some persons suppose, and the increased firmness with which stocks in that district are held is an evidence of the confidence which holders have of their intrinsic worth. Some outside stocks have also attracted the attention of dealers, but transactions in them were very limited.

LATEST ASKED AND BID.

Gold Hill District.—Alpha $800 bid, 1,050 asked. Argo 8b, 11a. Astor 15b. Arizona 15b, 18a. Branch Mint 15b, 19a. Caledonia Tunnel 18b, 25a. Consolidated Company 32b. Crœsus, 55b 65a. Effingham, 5a. Frankel 7b, 7a. Globe 15b, 23a. Golden Horn 3.50b, 4.50a. Geutry 5b, 7a. Hartford 11b, 14a. Independent 35b. Justice (Nevada) 200b. Jewett & Shepard 3b, 7a. Jenny Lind 5b. 5a. Knickerbocker 37.50b, 42a. Kentucky 2.50b, 5a. Lafayette 15.50b, 22a. Mary Ann 62.50b, 80a. Miantonomah 12a. Mother Lumpkins 3b North American 77.50b, 97.50a. New Oregon 14b, 22a. Napoleon 8.50b, 12a. Rock Island 13.75b 15a. Silver Vale 6b, 8a. Northern Light 1b, 4a. Combined Effort 13b, 20a. Champion 2.50b, 350a. Muy Rico 29b, 65a. Winegardner 10a. Retributiou 7a. Brotherhood Consolidated 1b, 1.75a. Burke & McClellan 7a. White & Sanders 1.50b, 3a. Occidental 4b, 10a. Wm. B. Astor 9a. Superior 500a. Opal 1.50b, 5a. Grass Valley & Napoleon 2.25b, 4a. Benjamin 10a. Ormus 3a. Burlington 5a. Louisville 6a. Texas 9a. Mansfield 1b, 3 50a. Yellow Jacket 850b, 1,075a Ætna No .1, 3b. Grant 10cb, 75ca. King Solomon 75cb, 1.50a. Pride of America 3a. Golden Eagle No. 1, 10a. Bullion 83a. Baltic 165b, 180a. Crown Point Ravine 7b, 13a. Harold 16b, 24a. Hawkeye Original 75a. Nevada 3b, 19a. Navigation 30a. Nelson Consolidated, 60a. Oneoto 15b, 17a. Schiller, 12b, 24a. Stevenson Kehoe 25a. Uncle Sam. Senior 75a. Victor Hugo 30a. Vesuvius 12b, 20a. Yolo 15b, 20a. G 11 Q M and M Co. 275b, 295a. Jim. McClellan 2a. Leon 12b, 25a. Midas 1,200a. North American 100b, 105a. Pony Express 6b. Uncle Sam 800b. Vulcan 6a. Belle Vernon 4b, 9a. Central America 12a. Clinton & Hobbs 15b. Dardanelle 2.50b, 10a. Empress 20b. Justice 220b. J. A. Logan 8a.

Virginia District.—El Dorado 30b, 50a. Grass Valley 75b. Milton 25b, 35a. Moss 65a. Osceola 8b, 10a. Sierra Nevada 100a. St George 15a. Ponce de Leon 1b, 2.50a. Sunrise 12a. McMeans & Williams 3b, 7.50a. Monitor 1a. St. Johns 8a. Lundin 10a. Central America 2b, 8a. San Francisco 5b, 9.50a. Kossuth 3.50b, 4a. Palo Alto 1.50b, 4a. Mechanics 3a. American City 3.50b, 7a. Grass Valley & Napoleon 2.50b, 4a. Jim McClellan 5a. American City 3b 12a. Birdsall 6.50b, 10a. Costa Rica 2a. Crown Point 4b, 7a. Grant 62.50a. Irving 14a. Legal Tender 12b. Moray 22.50a. Young 4a. West Point 4a. Burning Moscow 100b, 115a. Allen 50a. Grass Valley 80b, 145a. New Orleans 4a. Pride of Washoe 4a. Seneca 10b. Sutro 10a. Santa Rosa 3b. St. George 15a. Wm. Penn 5b, 10a.

Flowery District.—Adriatic 14a. Atwill 1b, 4a. Yankee Blade 1.50b, 10a. Ossiau 12a. Harrison 3.50b, 3.50a. Uncle Sam 4b, 6.50a. Lady Bryan 49b 49a. Wealth Co. 3a. Weal Chance 1b. Yankee Blade 5a. Lady Bryan No 2, 3¼b, 4a. Lady Bryan 55a, 30d.

Indian Springs District.—Randolph 28b, 40a. Orion 3b, 25a. Jackson 20a. Roger Sherman 10b, 16a. Whitman 210a.

Palmyra District.—Baltimore 40a. Rappahannock 22.50b. Real del Monte 1b. Dayton 40b.

Devil's Gate District.—Pioneer 15a. Dowd 4.50a. Yankee Blade 2a. Opal 2a. Kossuth 2.50b, 5a. Sebastopol 1b, 4a.

Blue Sulphur Springs District.—Palo Alto 3.50b, 5.50a. Ninian 2.50b. Chimborazo 2a.

Silven Star District.—St Johns 4.50a.

Humboldt District.—American Basin 2.50b, 5a. Cuba 5b. Moonlight 25b.

Desert District.—Badger 7.50a. Ophir 8a.

SALES SINCE OUR LAST ISSUE.

Almance, Con., 10 at $2½. American City, 50 at 4; 10 at 3½. Amador, 40 shs., at 50c. Argo, 25 at 8; 10 at 8½; 100 at 9; 10 at 14; 10 at 14; 50 at 9. Arizona, 5 at 14½; 10 at 16½; 10 at 14; 5 at 12; 5 at 12. Brotherhood Consolidated, 50 at 1¾. Birdsall, 10 at 10. Burning Moscow, 5 at 110 buyer 30. Baltimore American, 5 shs at 48½; 10 at 47; 5 at 48; 5 at 42½; Burlington, 10 at 5; Branch Mint, 11 at 18½; 5 at 18. Brotherhood, Con., 10 at 2. Bell Vernon, 35 at 6¼. Boise & Reynolds, 31 at 2½. Cristo Consolidated, 100 at 1½. Cincinnati, 10 at 2½. Cherokee, 10 at 1. Consolidated Brotherhood, 5 at 3; 20 at 1½; 15 at 1¼. Champion 30 at 2; 25 at 2¼; 60 at 2½; 50 at 2¼; 70 at 2½; 25 at 2¼. Central Park, 5 at 5; 10 at 10. Colorado, 30 at 6. Claremont, 10 at 3. Cuba, 50 at 1. Dr. Perry, 25 shs. at 25c; 15 at 25e; 10 at 50e. Dardanelle, 10 at 5. Frankell, 10 shares at 6; 50 at 8; 50 at 9; 70 at 7; 10 at 5½; 5 at 6½. Gentry, 90 at 5; 125 at 5½. Globe, 20 at 15. Grant, 20 at 25. Golden Horn, 50 at 4¾; 10 at 4½. Golden City, 25 at 50c. Grass Valley and Napoleon, 20 at 3; 115 at 2½; 15 at 2.62; 8 at 2¾; 25 at 2.62. Grass Valley, 10 at 60. Harold, 5 at 20. Harrison, 25 at 3½. Honduras, 25 at 9; 25 at 11. Hartford, 10 at 14½. Jenny Lind, 5 shs. at 5; 5 at 4; 136 at 4½; 103 at 4; 30 at 5. Jewett & Sheppard, 15 at 6½. Irving, 25 at 13 b 30. Kentucky, 5 at 4. Knickerbocker, 20 at 42; 45 at 42½; 10 at 37½; 10 at 38; 10 at 56 b 30; 10 at 49; 20 at 41; 5 at 41½; 20 at 45 b 30; 15 at 40; 5 at 49 b 30; 15 at 46 b 30; 5 at 43; 10 at 45 b 30. Kossuth, 10 shs at 3¼; 10 at 4. King Solomon, 25 at 7; 80 at 1½; 40 at 1. Lady Bryan, 5 at 40; 15 at 50; 10 at 25; 10 at 49; 5 at 43. Lady Bryan, No. 2, 60 at 3½; 15 at 3¼; 10 at 3 ¾. La Platte Oro, 16 at 6½. Lafayette, 20 at 20; 10 at 18. Lee, 20 at 7. Lady Esther, 300 at 17. Murphy 20 at 1¼. Milton, 10 at 30; ½ at 24; 15 at 35. Muy Rico, 25 at 26. Miantonomah, 42 at 12; 10 at 11. Mother Lumpkins, 25 at 5. New Oregon, 25 at 17. Northern Light, 20 at 4; 10 at 4½. Napoleon 20 at 8. Naragansette, 10 at 2¼; 25 at 2 Opal, 10 shs at 2. Oneota, 10 at 15. Orphan Boy & Sweet Alice Con., 10 at 1. Pride of America, 10 at 3. Puritan, 25 at 5. Palo Alto, 10 at 3½. Pompey, 10 at 15; 20 at 16. Russian, 50 at 3½; 25 at 3. Rock Island, 52 at 15; 5 at 13; 70 at 19½; 5 at 16½. Republic, 10 at 1. Sam Patch, 10 at 50c. Silver Vale 100 at 6; 5 at 7. Swezey South, 10 at 49. Sandy Bowers, 50 at 1½. Sheldon, 10 at 11. Tontine 10 at 14. Uncle Sam (Flowery) 5 at 6. Virginia Express, 10 at 1; 25 at 2½. Vesuvius, 10 at 11; 5 at 20. Vulcan, 50 at 3. Winegardner, 20 at 5½. Wimmer, 10 at 5. White Dove Con., 50 at 1; 200 at 1½; White & Sanders, 5 at 2. Yolo, 10 at 14; 18 at 15. Yankee Jim, 100 at 1¼. Yuba, 25 at 5½; 25 at 4.

THREE STOCK BOARDS IN VIRGINIA CITY.—According to the Virginia papers, mining stock business must be pretty brisk in that city. It appears that the old original "Washoe Stock and Exchange Board" was found quite too contracted. some weeks since, to hold the brokers that sought to avail themselves of its facilities for doing business. Accordingly the surplus material organized themselves into a second board, known as the "People's Board." This board has now in its turn become over-crowded, and another swarm has gone forth and organized the "Territorial Stock and Exchange Board," according to the *Enterprise*, while the *Union* gives us "The Virginia Stock Market" as the title appropriated by the new organization. The meetings of this third board are to be held in the large hall in George F. Jones' building, on B street. Some thirty-five or forty members were present at the organization. Seats in the second board are held at $200.

PROSPECTING FOR COAL.—The Virginia *Union* notices the organization of a coal mining company in that city, for the purpose of prospecting a coal indication, located within about three miles of that city, in a south-eastern direction. The company is now sinking, under the direction of an experienced collier, formerly from England, and more latterly from the Pennyslvania coal mines. The indications, thus far, are pronounced remarkably good. A good mine of coal at so short a distance from Virginia would be a fine thing for the people, and the owners would have no cause to envy even the rich silver vein of the Gould & Curry. The sandstone rock through which they are now working is similar in appearance to that which is found in the coal mines in Pennsylvania.

A SOMEWHAT SINGULAR FACT connected with the waters of Humboldt lake and slough is that the waters of both are much more saline and impure after a high wind than at other times. This is explained in the Virginia City *Union* by the fact that the salt water, being the heaviest, sinks to the bottom, and is stirred up and mixed with the fresher stratum on top when agitated by the wind; the alkaline substances deposited on the shores being at the same time washed off and diffused through the main body of the lake.

LITIGATION IN WASHOE.—The Virginia City *Union*, of March 6th, publishes the District Court Calendar for the term commencing March 7th, from which it appears that the criminal calendar contains 181 cases, the law calendar 256, and the equity calendar 48 cases—in all 485 cases. Of the 304 civil cases, 217 are mining disputes. When we reflect upon this immense mass of litigation, it is little to be wondered at that we have so few dividend-paying mines in Washoe.

THE WEEK'S BULLION.—The weight and value of bullion shipped from Virginia City, during the week ending March 5, amounted to 7,694 pounds, valued at $245,786.77, being a slight increase on the shipment of any week during 1864.

CROCKER'S ASSESSMENT LEDGER.—We hear experienced secretaries speaking favorably of this labor-saving book. The testimony of others will be found in the publisher's advertisement, in our paper.

PLUMBAGO.—A vein of plumbago, or black lead, (*graphite*) according to the Reese River *Reveille*, has recently been discovered in Summit district. The vein is said to be two and a-half feet thick.

NEVADA DAILY GAZETTE.—Judge Stidger has removed the North San Juan *Press* office to Nevada City, and now issues a lively daily at the county seat of Nevada county.

MR. A. F. BLOOD, of Taylorsville, sends us the cash for a list of subscribers living in Indian Valley, Plumas county, one of the pleasantest little vales in California, rich in both agriculture and minerals.

Papers Wanted.—Twenty-five cents per copy will be paid for No. 3 of Vol. 8, (dated Jan. 16, 1864) of the MINING AND SCIENTIFIC PRESS." Send them to this Office.

Two Good Canvassing Agents can find profitable employment by calling at this office. None but active and competent men need apply.

It is Impossible for editors to know ALL the merits and demerits of their correspondence, consequently the reader must not receive the opinions of our contributors as our own. Intelligent discussion is invited upon all sides, and the evidence of any error upon our part will be received in friendship, and treated with respect.

Worth Considering.—Advertising has proved the medium of success to many of the most prominent business men of the world. Merchants, Inventors, Builders, Patentees, Manufacturers, Foundrymen, Machinists, and, in fact, all who wish to call the particular attention of the Mining, Professional, Mechanical and Industrial members of the community to their business, should not fail to advertise in the MINING AND SCIENTIFIC PRESS. The circulation of the paper is extensive, and has a wide range, reaching the most intelligent readers in every mining settlement of importance on the coast. A large number of copies are also sent East. Our terms are reasonable. "Live and help live" we believe to be a sensible motto.

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And Mining Secretary.
Office, No. 708 Montgomery Street, San Francisco. Reference—Messrs, PARROTT & Co., Bankers. 8v8.tf

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Bear Valley, March 1st. 1864. 10v8-1m

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WE ARE PREPARED TO FILL ALL ORDERS FOR ROOFING throughout the State, Mexico or Nevada Territory. The attention of miners and mill owners are especially called to this notice, it being the cheapest and most economical roofing in use.
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THOMAS WALLACE,	J. DE STA. MARINA,
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Rules and Regulations.

1. The business of the Exchange shall be managed by a Board of thirteen Directors, to be elected annually, and to whom application for membership shall be made. Any question or issue raised touching contracts, made at the Board, their validity or meaning, shall be referred to a committee of five, for investigation and final decision.

2. The Sessions of the Board shall be from 12 to 1 P. M., and from 3 to 4 P. M., each day, Sundays excepted.

3. Only members of the Exchange shall offer Stocks, etc., for sale.

4. The public may bid upon and purchase any Stocks, Bonds, Securities, Specie, etc., that may be offered for sale.

5. Buyers of Stock who are not members must either make a deposit of Ten (10) per cent. of the purchase money at the time of sale, or have their contracts endorsed by a member.

6. Should any member or party refuse to fulfill a contract entered into by him at a Session of the Board, he shall thereafter be debarred from all privileges of the Exchange, at least until he shall have specially performed such contract.

Commissions on Sales

Of United States, State, County and City Bonds; Railroad, Steamboat, Telegraph, Gas, and Water Stocks; Certificates, Bills of Exchange, Treasury Notes, Specie, etc., one-half of one per cent.

Commission on Mining Shares:

Sale at $1 up to $10	$0 25 per foot
Sale at $10 up to $25	50 per foot
Sale at $25 up to $50	1 00 per foot
Sale at $50 up to $100	1 50 per foot
Sale at $100 up to $200	2 50 per foot
Sale at $200 up to $400	5 00 per foot
Sale at $400 up to $600	6 00 per foot
Sale at $600 up to $800	7 50 per foot

From $800 to $3,000 per foot, one per cent. Anything above $3,000 per foot, three-quarters of one per cent. 7v8-tf

J. H. GRUSH, J. A. PEER, W. BUSHMAN

GRUSH & CO.,

Pattern and Model Makers.

Drawings Made for Engines, Mills, Water Wheels, Mining Machinery, Etc.

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WOOD WORK FOR ALL KINDS OF MACHINERY.

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Fremont St., between Market and Mission, San Francisco. 3-3m

GEORGE T. PRACY,

MACHINIST AND BLACKSMITH.

Steam Engine, Flour and Saw Mill,

And Quartz Machinery, Printing Presses,

—AND—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED

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3-qy SAN FRANCISCO.

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—IMPORTERS AND DEALERS IN—

Hardware, Building Materials,

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Pacific Metallurgical Works,

North Beach, San Francisco.

THE COMPANY HAVING BEEN TO A LARGE EXPENSE IN enlarging their Works, are now prepared to contract to work any quantity of Gold and Silver Rock, nearer the true assay than any other Company in this Country, or Europe.

G. T. FOUQUE, Superintendent.

S. C. BRADSHAW, JR., Secretary.

Office, 511 Sacramento street, San Francisco. 3-tf

How to make your Remittances.—In most of the mining towns, brokers will furnish checks on San Francisco at par, (or at a very slight advance) to those who wish to pay us for subscriptions, advertising, mining blanks, etc. When it is more convenient, money may be remitted by mail at our risk if the parties sending will register their letters. Money sent by mail is seldom lost if properly enclosed. An excellent method is that of opening the layers of a card, placing the coins between the layers and sealing the edges together.

Stock Reports.

SAN FRANCISCO STOCK BOARDS.

Sales by the San Francisco Stock and Exchange Board, the Stock Exchange, and the Pacific Board of Brokers.

[Revised for the Mining and Scientific Press.]

Saturday, March 5, 1864

S. F. STOCK AND EXCHANGE BOARD.

AFTERNOON SESSION.

2 shares Gould & Curry at $4600 per ft. ex. div.
24 do Ophir at $.650 per foot, regular way.
40 do Daney at $225, per foot, seller 90 days.
20 do Daney at 195 per foot.
40 do Daney at 200 per foot.
40 do Daney at 210, b 30.
3 do Sides at $540 per foot.
40 do North Potosi at $71.
111 do North Potosi at 72.
10 do North Potosi at 70, s 30.
5 do Pride of the West at $95.
60 do Real del Monte at $55.
5 do Real del Monte at 54¾.
10 do Real del Monte at 60, b 30.
25 do Real del Monte at 56.
100 do Real del Monte at 47½, s 30.
10 do Real del Monte at 58, b 30.
20 do Real del Monte at 55½.
10 do Real del Monte at 55½, r w.
10 do Melones at $40.
15 do Lady Bryan at $50.
10 do Lady Bryan at 50¾.
10 do Lady Bryan at 52, b 30.
10 do North American at $102, r w.
10 do North American at 100, s 30.
10 do North American at 101½, r w.

S. F. Stock and Exchange Bd. sales....$134,114 50

Monday, March 7.

S. F. STOCK AND EXCHANGE BOARD.

20 shares Chollar at $490 per foot, b 30.
4 do Chollar at 390 per foot.
6 do Yellow Jacket at $100.
60 do Daney at 192½ per foot.
20 do Daney at 200 per foot, b 30.
25 do Burning Moscow at $100, b 30.
6 do Burning Moscow at 95.
15 do Burning Moscow at 93.
5 do Burning Moscow at 97, b 30.
10 do Burning Moscow at 92¼.
10 do Burning Moscow at 92.
25 do Norton at $4.
170 do Real del Monte at $51.
5 do Real del Monte at 52¼, b 30.
50 do Real del Monte at 50½.
5 do Real del Monte at 51½, b 30.
10 do Real del Monte at 47½ s 30.
40 do Real del Monte at 48.
50 do Real del Monte at 50.
10 do Wide West at $22.
10 do Wide West at 21.
25 do Baltimore American at $41.
5 do Nevada, J. G., at $220.
25 do North Potosi at $74.
10 do North Potosi at 70, s 30.
10 do North Potosi at 73.
15 do Lafayette, G. H., at $19.
10 do Baltic at $165, b 30.
10 do Baltic at 163, b 30.
10 do Baltic at 155,
25 do Blue Ledge at $18.
20 do Lady Bryan at $51.
10 do Lady Bryan at 53, b 30.
65 do Lady Bryan at 51, r w.
10 do Lady Bryan at 52½, b 30.
10 do Bullion, G. H., at $30, b 30.
20 do North American at $102.
40 do North American at 104.
28 do North American at 105.
10 do Antelope at $225, b 30.
5 do Antelope at 210.
5 do Pride of the West at $93.
30 do Pride of the West at 97½, b 30.
20 do Pride of the West at 98, b 30.
10 do Pride of the West at 100, b 30.
18 do Pride of the West at 95.
25 do Pride of the West at 94, s 30.
20 do Buckeye at $20, r w.

AFTERNOON SESSION.

20 do Daney at $195 per foot.
5 do Real del Monte at $46.
5 do Real del Monte at 47½, b 30.
37 do Real del Monte at 45.
25 do Real del Monte at $44.
5 do Real del Monte at 44½.
60 do Real del Monte at 42, s 30.
30 do Real del Monte at 44.
5 do Real del Monte at 43½.
10 do Real del Monte at 42½, s30.
25 do North American at $107.
10 do North American at 108.
10 do North American at 106.
10 do North American at 105½.
292½ do Buckeye at $20½.
445½ do Buckeye at 20.
25 do Buckeye at 22, b 30.
20 do Buckeye at 21.
10 do Nevada, J. G., at $225.
5 do Antelope at $225, b 30.
5 do Antelope at 215.
5 do Burning Moscow, at 95, b 30.
10 do North Potosi at $72, b 30.
15 do Pride of the West at $95.
5 do Pride of the West at 97½, b 30.
60 do Bullion, G. H., at $79, b 30.

STOCK EXCHANGE.

10 do Crockett Consolidated at $20.
5 do Real del Monte at $52.
5 do Real del Monte at 51.
15 do Real del Monte at 50.
5 do Real del Monte, at 49¾.
6 do Real del Monte at 49.
10 do Real del Monte at 47.
5 do Real del Monte, at 46.
10 do Burning Moscow at $90, s 30.
5 do Burning Moscow at 100, b 30.
10 do Adriatic at $10.
10 do Burnside at $13.
10 do Crockett at $19.
20 do Crockett at at $22, b 60.
5 do Michigan at $20.

PACIFIC BOARD OF BROKERS.

40 do Burnside at $13.
20 do Santa Rosa at $8.
40 do Santa Rosa at 9.
5 do Santa Rosa at 8¾.
10 do Lady Bryan at $48, s 10.
10 do Lady Bryan at 49½.
10 do Lady Bryan, at 49½.
10 do Lady Bryan at 53, b 30, n d.
10 do Lady Bryan at 54, b 30, n d.
10 do Lady Bryan at 48, 10 d.
20 do Lady Bryan at 50.
10 do Lady Bryan at 51.
10 do Lady Bryan at 47, s 18.
10 do Lady Bryan at 51½.
40 do Lady Bryan at 45, s 15.
10 do Lady Bryan at 46, s 15.
10 do Lady Bryan at 47, s 15.
20 do Lady Bryan at 47½, s 15.
10 do Lady Bryan at 48, s 15.
10 do North American at $100, s 60,
10 do Real del Monte at $52½.
6 shares Real del Monte at 54.
5 do Real del Monte at 52.
4 do Real del Monte at 53¼.
5 do Real del Monte at 51½.
5 do Real del Monte at 55, 10 d, n d.
5 do Real del Monte at 55, 10 d.
5 do Real del Monte at 49, s 30.
5 do Real del Monte at 48, s 15.
5 do Real del Monte at 48, s 10.
5 do Real del Monte at 52, b 30.
10 do Buckeye at $19.
10 do Burning Moscow at $92¼.
50 do Crockett Consolidated at $20.
10 do Sheba at $125 per foot.
10 do Wide West at $22.

S. F. Stock and Exchange Bd. sales $115,930 50
Sales by the Pacific Board of Brokers.. 19,894 75
Sales by the Stock Exchange..... 4,831 50

Total sales of the day, by all Boards, 240,656 75

Tuesday, March 8.

S.F. STOCK AND EXCHANGE BOARD.

36 shares Ophir at $1650.
2 do Crown Point at $850 per foot.
60 do Daney at $205 per foot, b 30.
5 do De Soto at $40.
5 do Burning Moscow at $89.
5 do Burning Moscow at 90.
20 do Burning Moscow at 90, r w.
10 do Burning Moscow at 94, b 30.
50 do Real del Monte at $40.
10 do Real del Monte at 40, r w.
10 do Real del Monte at 42, b 30.
67 do Real del Monte at 40.
30 do Real del Monte at 39, s 10.
20 do Real del Monte at 39, s 30.
5 do Real del Monte at 40.
15 do Real del Monte at 40¾.
20 do Real del Monte at 39, s 30.
10 do Lady Bryan at $51½.
50 do Lady Bryan at 52.
10 do Lady Bryan at 52, s 3.
11 do Lady Bryan at 52½.
10 do Lady Bryan at 53.
5 do Bullion at $30, b 30.
10 do Caledonia Tunnel at $22.
20 do Pride of the West at 95, b 30.
5 do Pride of the West at 92½, s 30.
15 do Pride of the West at 92, s 30.
20 do North American at 104, r w.
25 do North American at 104.
20 do Buckeye at $21.
25 do Buckeye at 23, b 30.
5 do Antelope at $220, b 30.
15 do Moss, Va., at $30.
5 do El Dorado at $42½.
15 do Bullion at $76.
40 do Bullion at 80, b 30.
10 do Baltimore American at $41, rw.

AFTERNOON SESSION.

4 do Crown Point at $450.
1 do Yellow Jacket at $375 per foot.
10 do Real del Monte at $39.
10 do Real del Monte at 36.
10 do Real del Monte at 37.
10 do Real del Monte at 38.
10 do Real del Monte at 38½.
20 do Real del Monte at 38, s 30.
30 do Burning Moscow at $89.
2 do Burning Moscow at 89, s 3.
20 do Lady Bryan at $54.
5 do Lady Bryan at 54¼.
26 do Lady Bryan at 55.
10 do Lady Bryan at 55, s 10.
10 do Lady Bryan at 56, b 15.
10 do Lady Bryan at 56½, b 30.
50 do Lady Bryan at 54.
20 do Lady Bryan at 54½.
10 do Lady Bryan at 56, b 30.
10 do Buckeye at $21
10 do North American at 109, b 30.
10 do Baltic at $160.
20 do Bullion, G. H., at $76.

STOCK EXCHANGE.

10 do Crockett at $17½.
5 do Real del Monte at $43.
15 do Real del Monte at 40.
10 do Real del Monte at 39.
5 do Real del Monte at 39¼.
25 do Blue Ledge at $18¼.
20 do Santa Rosa at $10.
25 do Adriatic at $10.

PACIFIC BOARD OF BROKERS.

15 do Real del Monte at $42½.
5 do Real del Monte, at 43.
1 do Real del Monte at 45.
10 do Real del Monte at 42, r w.
10 do Real del Monte at 41½.
20 do Real del Monte at at, b 30.
30 do Real del Monte at 38, s 30.
5 do Real del Monte at 39, s 8.
10 do Real del Monte at 39, s 15.
2 do Real del Monte at 40.
10 do Real del Monte at 40¾.
10 do Real del Monte at 41, 1 d.
10 do Real del Monte at 41, r w.
15 do Real del Monte at 42.
15 do Real del Monte at 42.
7 do North American at $105.
10 do Lady Bryan at $52¼, b 15.
20 do Lady Bryan at 51½, r w.
10 do Lady Bryan at 51.
10 do Lady Bryan at 54, b 20, n d
10 do Lady Bryan at 53½, b 20, n d.
10 do Lady Bryan at 48, s 17.
10 do Lady Bryan at 50, s 15.
20 do Lady Bryan at 49, s 30.
20 do Lady Bryan at 53.
5 do Lady Bryan at 50, s 30.
5 do Lady Bryan at 54, b 5.
10 do Lady Bryan at 55, b 15.
10 do Lady Bryan at 55½.
5 do Lady Bryan at 55¾.
20 do Lady Bryan at 53½, 1 d.
15 do Lady Bryan at 54½, b 5.
20 do Lady Bryan at 56, b 30.
20 do Lady Bryan at 56, b 30, n d.
40 do Crockett at $17.
20 do Crockett at 21, b 60.
2 do Crown Point at $860 per foot.
10 do Ruckeye at $20.
5 do Yellow Jacket at $975 per foot.
5 do Gov. Nye at $5½.
10 do Gov. Nye at 5.
10 do Caledonia Tunnel at $21.

S. F. Stock and Exchange Bd. sales.....$121,325 50
Stock Exchange sales..... 2,595 00
Sales by the Pacific Board of Brokers.. 26,299 50

Total sales of the day, of all Boards,.. 150,220 00

Wednesday, March 9.

S. F. STOCK AND EXCHANGE BOARD.

5 do Nevada, Justice Ground, at $225.
10 do Esmeralda at $71½.
33¼ do Buckeye at $22.
30 do Burning Moscow at $92.
10 do De Soto at $50.
20 do Melones at $50.
10 do Melones at 52½.
10 do Melones at 55, b 30.
10 do Lafayette, G. H., at $17.
80 do Lafayette at 16.
40 do Lady Bryan at $56.
15 do Lady Bryan at 54, s 30.
155 do Lady Bryan at 56½.
10 do Lady Bryan at 57.
10 do Lady Bryan at 58½, b 30.
10 do Lady Bryan, at 58, b 30.
55 shares Lady Bryan, at 57½, b 30.
10 do Santa Rosa at $6.
10 do North American at $104.
25 do North American at 105.
10 do North American at 100, s 60.
50 do Real del Monte at $36.
20 do Real del Monte at 36, r w.
10 do Real del Monte at 35, s 30.
10 do Real del Monte, at 36½, r w.
10 do Real del Monte at 36½.
10 do Caledonia Tunnel at $22.
30 do Caledonia Tunnel at $24, b 30.
10 do Caledonia Tunnel at $22½.
10 do Cicero, R. R., at $30.

AFTERNOON SESSION.

4 do Crown Point at $950 per foot.
2 do Uncle Sam at $800.
2 do Yellow Jacket at $1050.
20 do Lady Bryan at $54.
25 do Lady Bryan at 55, b 30.
10 do Buckeye at $22.
10 do South American at $16.
60 do South American at 18.
15 do De Soto at $45.
10 do De Soto at 42.
10 do Burning Moscow at $93½.
5 do Burning Moscow, at 94½.
10 do North Potosi at $72½, b 30.
10 do North Potosi at 72, b 30.
15 do Whitman at $70.
2 do North American at 104, s 6.
15 do North American at 106.
30 do North American at 105.
10 do North American at 105½.
20 do Real del Monte at $37½.
20 do Bajazet & Golden Era at $56.

PACIFIC BOARD OF BROKERS.

50 do De Soto at $50.
10 do De Soto at $49.
10 do De Soto at 49¾.
10 do De Soto at 48.
10 do Real del Monte at $35, s 30.
10 do Real del Monte at 41, b 30, n d.
5 do Real del Monte at 38, r w.
10 do Real del Monte at 36½, r w.
15 do Real del Monte at 36, r w.
10 do Real del Monte at 36, 1 d.
22 do Real del Monte at 36.
1 do Real del Monte at 34.
2 do Real del Monte at 35.
10 do Real del Monte at 36, 5 d.
10 do Real del Monte at 36, 3 d.
10 do Real del Monte at 35, 3 d.
15 do Lady Bryan at $54½.
10 do Lady Bryan at 55.
10 do Lady Bryan at 53, s 14.
20 do Lady Bryan at 55¾.
20 do Lady Bryan at 55½, 1 d.
20 do Lady Bryan at 55½, r w.
40 do Lady Bryan at 50, s 10.
10 do Lady Bryan at 50, s 20.
10 do Lady Bryan at 55, b 30, n d.
10 do Lady Bryan at 50, s 30.
5 do Lady Bryan at 54.
10 do Blue Ledge at $22½.
10 do Blue Ledge at 25, b 30.
1 do Blue Ledge at 20.
5 do Wide West at $20.
5 do Caledonia Tunnel at $21.
20 do Caledonia Tunnel at 25, b 30, n d.
20 do Crocket Consolidated at $14½.
10 do Gov. Nye at $5.
20 do Lafayette, G. H., at $16.
20 do Santa Rosa at $7.
20 do Santa Rosa at 6¾.

STOCK EXCHANGE.

10 do Caledonia Tunnel at $20.
20 do Caledonia Tunnel at 21.
10 do Caledonia Tunnel at 21½.
5 do Caledonia Tunnel at 22.
10 do De Soto at $19.
4 do Blue Ledge at $20.
10 do Ruckeye at $20.
5 do Real del Monte at $38.
25 do Benjamin at $4.

S. F. Stock and Exchange Rd. sales....$ 57,688 00
Pacific Board of Brokers' sales..... 18,768 50
Stock Exchange sales..... 1,725 00

Total sales of the day by all Boards,.. 78,181 50

Thursday, March 3.

S. F. STOCK AND EXCHANGE BOARD.

8 shares Gould & Curry at $4630 per foot.
60 do Ophir at $1680 per foot.
9 do Yellow Jacket at $1010.
7 do Uncle Sam, at $800.
1 do Uncle Sam at 805.
3 do Burning Moscow at $95.
10 do Burning Moscow at 96, b 3.
20 do Burning Moscow, at 100, b 30.
10 do Burning Moscow, at 96.
10 do Burning Moscow, at 97, r w.
10 do Burning Moscow at 97½.
2 do Burning Moscow at 98.
10 do Burning Moscow at 97½, Sat.
10 do Imperial at $157½.
20 do Caledonia Tunnel at $22.
20 do Blue Ledge at $21¼.
5 do Cicero, R. R., at $35.
15 do Baltimore American at $41.
50 do South American at $20.
20 do South American at 21.
15½ do South American at 23.
10 do Lady Bryan at $50.
20 do Lady Bryan at 52, b 30.
5 do Lady Bryan at 51, b 30.
20 do Lady Bryan at 49.
50 do Lady Bryan at 47½, s 30.
20 do Real del Monte at 39, s 30.
15 do Real del Monte at 40.
5 do Real del Monte at 41.
10 do Real del Monte at 41, s 30.
10 do North American at $105, r w.
5 do North American at 105.
20 do Napoleon, copper, at 60, b 30.
20 do Napoleon, copper, at 55,
10 do Harmon, at $37½, b 30.
10 do Baltic at $152.
10 do Baltic at 150.

AFTERNOON SESSION.

10 do Adriatic at $3.
50 do Lady Bryan at $49.
60 do Lady Bryan at 51, b 30.
10 do Lady Bryan, at 48½, r w.
20 do Lady Bryan, at 48, r w.
50 do Lady Bryan, at 47, s 30.
25 do Lady Bryan, at 48.
10 do Caledonia Tunnel at 23.
30 do Caledonia Tunnel at 24.
16 do Burning Moscow at $104.
4 do Burning Moscow at 108.
57 do Burning Moscow at 110.
10 do Burning Moscow at 112, b 30.
10 do Wide West at $19.
11 do Lucerne at $20.
10 do Lucerne at 21.
10 do North American at $105.
10 do Real del Monte at 43.
10 do Real del Monte at 45.
55 do Real del Monte at 46.
5 do Real del Monte at 46¾.
25 do Real del Monte at 47.
100 do Real del Monte at 48.
55 do Real del Monte at 47½.
50 do Real del Monte at 45, s 30.
20 do Real del Monte at 46, s 30.
20 do Real del Monte at 47, s 30.
10 do North Potosi at 82½, s 30.
150 do North Potosi at 82½, b 30.
50 do North Potosi at 83.
10 do North Potosi at 82, s 30.

PACIFIC BOARD OF BROKERS.

20 shares Lady Bryan at 47½, s 60@30.
10 do Lady Bryan, 54, b 30, n d.
10 do Lady Bryan, at 51½.
20 do Lady Bryan, at 41, s 60@30.
10 do Lady Bryan, at 49, s 60.
10 do Lady Bryan, at 52½, b 30, n d.
10 do Lady Bryan at 53, b 30, n d.
20 do Lady Bryan, at 51½, b 30.
10 do Lady Bryan at 51, b 10.
10 do Lady Bryan at 51, b 5.
10 do Lady Bryan at 51.
10 do Lady Bryan at 49.
10 do Lady Bryan at 50, 1 d.
10 do Blue Ledge at $22½.
14 do Blue Ledge at 30, b 60.
4 do Blue Ledge at $22½, r w.
10 do Blue Ledge at 21.
50 do Blue Ledge at 20, s 30.
10 do South American at $20.
10 do South American at 20, r w.
10 do South American at 21, 5 d.
10 do South American at 20, 3 d.
70 do South American at 21, r w.
33 do Santa Rosa at $7.
10 do De Soto at $43,
10 do De Soto at 42½, r w.
20 do De Soto at 42½.
10 do De Soto at 45, b 30.
10 do Real del Monte at $35.
5 do Real del Monte at 41.
10 do Real del Monte at 42, r w.
5 do Real del Monte at 42.
5 do Real del Monte at 42, 1 d.
10 do Melones at $50.
2 do Burning Moscow at $100.
5 do El Dorado at $30.
1 do Wide West at $18.
20 do Caledonia Tunnel at $23, b 30.
10 do Caledonia Tunnel at 23, b 30, n d.
10 do Caledonia Tunnel at 22.
20 do Silver Hill at $10.
50 do East Lynn, O. R., at $20.

STOCK EXCHNGE.

10 do Caledonia Tunnel at $22.
7 do Real del Monte at $39.
12 do Real del Monte at 41.
5 do Real del Monte at 44, b 30, n d.
10 do Pearl, copper, at $7¾.
20 do Magna Charta at $10.
2000 do Rubicon at 10c.
10 do Napoleon, copper, at $59.
10 do Knickerbocker, G. H., at $40.

S. F. Stock and Exchange Bd. sales.....$236,131 50
Stock Exchange sales..... 4,468 00
Pacific Board of Brokers' sales..... 17,155 50

Total sales of the day, by both Rds,... 257,755 00

Friday, March 11.

S. F. AND EXCHANGE BOARD.

2 shares Uncle Sam at $800.
10 do Burning Moscow at $112.
10 do Burning Moscow at 102¾.
10 do Burning Moscow at 100.
15 do Burning Moscow at 100, r w.
10 do Burning Moscow at 105, b 30.
10 do Burning Moscow at 103, b 30,
4 do Burning Moscow at 98.
20 do Burning Moscow at 104, b 30.
10 do North Potosi at $96.
25 do North Potosi at 97.
10 do North Potosi at 99, b 30.
10 do North Potosi at 100, b 30.
10 do North Potosi at 94.
5 do North Potosi at 92½, s 30.
10 do Pride of the West at $87, r w.
10 do Pride of the West at 86.
5 do Imperial at $157½, b 30.
10 do Bajazet at $65.
2 do Wide West at $20.
5 do Esmeralda at $8.
5 do Real del Monte at $48, r w.
30 do Real del Monte at $49.
10 do Lafayette, G. H., at $16.
10 do Lafayette, G. H., at 14.
10 do Nevada, J. G., at $235.
5 do Nevada, J. G., at 240.
5 do Nevada, J. G., at 235.
100 do Josephine at $6, r w.
15 do Lady Bryan at $48½.
40 do Lady Bryan at 48.
40 do Lady Bryan at 50, b 30,
25 do Lady Bryan at 58, r w.
20 do Napoleon, copper, at $67.
10 do North American at $105, b 3.
5 do Blue Ledge at $20.
5 do Real del Monte at $50.
20 do Real del Monte at 49¼.

AFTERNOON SESSION.

60 shares Lady Bryan at $48¾.
15 do Lady Bryan at 49.
25 do Lady Bryan at 49, s 30.
10 do Michigan at $25, b 30.
10 do Pride of the West at $87.
100 do Real del Monte at $49.
35 do Real del Monte at 50.
30 do Real del Monte at 50½.
10 do North Potosi at $94.
10 do North Potosi at 92½.
10 do North Potosi at 90, s 30.
10 do North Potosi at 91.
10 do North Potosi at 89½.
20 do North Potosi at 87, s 30.
2 do Empire Mill & Mining Co. at $1,050.
3 do Empire Mill & Mining Co. at 1,025.
5 do Whitman at $65.
5 do Daney at $160.
5 do Antelope at $220, b 30.
5 do Nevada, J. G., at $220, s 30.
10 do Burning Moscow at $100.
3 do Buckeye at $21.

PACIFIC BOARD OF BROKERS.

15 shares Lady Bryan at $53, b 30.
10 do Lady Bryan at 49.
5 do Lady Bryan at 46, s 30.
20 do Caledonia Tunnel at $25.
10 do Caledonia Tunnel at 27, b 30.
50 do Santa Rosa at 7¾.
40 do Santa Rosa at 8, b 30.
10 do Santa Rosa at 8¼, b 30.
20 do Lady Bryan at $53, b 30.
5 do Real del Monte at $48.
4 do Real del Monte at 47.
20 do Ben Franklin, R., at $6.
10 do Blue Ledge at $19.
5 do Napoleon, copper, at $65.
5 do Napoleon, copper, at 69, b 30.
50 do Burning Moscow at $100.
10 do Bullion at $82.
20 do Caledonia Tunnel at $25.
15 do Real del Monte at $50.
5 do Harmon at $40, s 30.
2 do Real del Monte at $49½.
10 do Lady Bryan at $49.
5 do Lady Bryan at 52, b 30, n d.
10 do Caledonia Tunnel at $26½, b 20, n d.
20 do Caledonia Tunnel at 25, r w.
4 do Real del Monte at $49¼.
1 do Blue Ledge at $20.
20 do Santa Rosa at $10, b 30, n d.
20 do Caledonia Tunnel at $25.
6 do Real del Monte at $49.

STOCK EXCHANGE.

5 shares Burning Moscow at $103.
1 do Wide West at $20.
19 do Real del Monte at $49.
5 do Real del Monte at 50.
12 do Real del Monte at 49½.
50 do Coso at $5½.
20 do S. F. City, H., at $7¾.

20 do Harmon at $35
12 do Santa Rosa at $7¼.

S. F. Stock and Exchange Bd. sales.... $72,201 50
Sales by the Pacific Board of Brokers. 14,845 00
Sales by the Stock Exchange 3,525 00

Total sales of the day, by all Boards.. 90,564 50

Total sales of the week, by all Boards $251,491 75

Legal Tender Notes.

San Francisco, Friday March 11th.....62 per cent.

Gold in New York.

Friday March 4.....161¼.
Saturday, March 5.....161½@162.
Tuesday March 8.....164@165.
Wednesday, March 9.....168@169.
Thursday March 11.....164¼.

Record of New Incoporations.

The following is a record of the names of the companies, location of the claims, and the names of the Trustees mentioned in the articles of incorporation, filed in the County Clerk's office, in this city, since our last report:—

Umatilla G. & S. M. Co., Reese River district; H. W. Randall, H. E. Wright, J. B. Newman, S. B Stoddard, J. M. Gilchell.

Hancock G. & S. M. Co., Big Creek district, N. T.; S. B. Stoddard H. W. Randall, D. C. Booth, H. E. Wright, J. B. Newman.

Ironsides M. Co., Sacramento district, A. T.; E. Heath, J. H. Titcomb, Henry Lellingwell.

General Wright M. Co., Los Angeles county, Cal.; S. Newman, A. S. Norton, N. L. Jehu, Benj. Pratt, L. W. Noyes.

New England G., S. & C. M. Co., Calaveras county, Cal.; J. D. P. Teller, J. McGowan, John Johnson, W. M. Zabriskie, D. J. Murphy.

Cynthia G. & S. M. Co., Lander county, N. T.; Henry H. Byrne, Henry Carlton, Jr., P. B. Abbott.

Planet C. M. Co., Williams Fork district, A. T.; S. J. Ashley, C. E. Woodbury, J. McNamara.

Colusa G. & S. M. Co., Lander county, N. T.; John F. Morgan, J. W. Jones, C. F. Livingston.

Young Ophir G. & S. M. Co., Reese River district, N. T.; Wm. C. Hoagland, S. E. Holcombe, John Hoyt.

Perkins G. & S. M. Co., Lander county, N. T.; Thomas Lawrence, David F. Williams, J. W. Jones.

Martha Washington G. & S. M. Co., Lander county, N. T.; John Eddy, John T. Morgan, O. Skills.

Crescent City Tunnel & M. Co., Lander county, N. T.; R. H. Bennett, J. N. Plumb, W. H. Knight, Ed. Cohen, Thomas Cahill.

Equal Chance M. Co., Arizona Territory; David Burbank, Thos. Wallace, D. M. Hosmer.

Newby G. & S. M. Co., Lander county, N. T.; S. E. Holcombe, F. S. Carter, Matthew Butler.

Mission Ledge S. M. Co., Lander county, N. T.; R. H. Bennett, J. N. Plumb, W. H. Knight, E. Dunphy, Ed. Cohen, Thomas Cahill.

Rock Rose G. & S. M. Co., Storey county, N. T.; J. S. Yeates, Jr., S. A. Beaudt, G. E. Davis, P. G. St. John, Noble Lovejoy.

Barrington S. & C. M. Co., San Diego county, Cal.; C. S. Hobbs, John S. Samuels, H. H. Gray.

Cosmopolitan G. & S. M. Co., Storey county, N. T.; C. G. Emery, W. C. Fassett, L. G. Clement.

Corral Hill Consolidated M. Co., Lander county, N. T.; James Bryson, J. D. Griffin, A. J. Gove, John Irwin, James Marks.

NEVADA TERRITORY.

We gather from the Territorial papers the following names of mining companies which have recently filed papers of Incorporation in Nevada Territory:—

Harold and Argo G. & S. M. Co.; John K. Harold, M. Broyhill, M. Byrne, Jr., R. C. Chappel, C. H. Knox.

Leopold G. & S. M. Co.; James Sutter, N. J. Gillet, L. W. Cass, J. G. Libbey, John Dohle.

Western G. & S. M. Co.; C. H. Leightner, N. H. Sheldon, Wm. B. Hickok.

Eastern G. & S. M. Co.; same as above.

Judge Advocate G. & S. M. Co.; J. L. Moore, J. F. W. Black, G. R. Scott, H. Fox, J. McGinn.

Erminie G. & S. M. Co.; J. A. Benham, H. Hugnet, H. Herzog, C. B. Kimball.

Silver Age G. & S. M. Co.; Peter Bohn, H. Von Appen, J. Meyer, C. Baker, A. Levy.

Herkimer G. & S. M. Co.; W. B. Caldwell, W. B. Vosburgh, R. J. Mitchell, F. N. Barroughs, G. W. Lamreux.

Noble G. & S. M. Co.; Baron W. Von Stech, B. Franz, J. Ramirez. Gervinus G. & S. M. Co.; same as above.

Before Cutting the Leaves of this journal, stitch each No. hrough the back, or fasten with a large pin, and you will have a taper in the most convenient form possible for reading or reference.

To Printers.—One-half of the MOUNTAIN MESSENGER OFFICE, La Porte, Sierra County, is offered for sale upon moderate and favorable terms. The Office is new, and one of the best in the interior of the State. Its location is a favorable one, in a mining district unsurpassed for richness and permanency in California. Enquire of A. T. DEWEY, Office of the MINING AND SCIENTIFIC PRESS.

"Our Title Clear."—Some Correspondents address this office as the "Mining Journal." As the word journal does not occur in our heading, subscribers should be particular to write the name in full, "MINING AND SCIENTIFIC PRESS." There are other papers published in this city bearing the names of "Journal" and "Press."

J. M. Wolf is our Agent for Virginia City, Gold Hill and neighboring districts.

Correspondence from competent writers is respectfully solicited upon all topics of interest to the general readers of the PRESS Persons possessing a knowledge of new discoveries, curiosities, important improvements or developments, who have not the time or experience to write their observations elaborately, can send us the substance in a few words, and we will care for the rest. The real name of the author must be received, which will be kept confidential.

We have received No 1 of the enlarged MINING AND SCIETIFIC PRESS published by Dewey & Co., San Francisco. It is greatly improved, and gives promise of an excellent, able and reliable journal.—*Marysville Daily Appeal.*

It has been enlarged from eight to sixteen pages, and promises to be a valuable publication.—*Sierra Democrat.*

Is is full of the most valuable reading matter. Those at all interested in mining affairs should subscribe for it at once.—*Alameda Gazette.*

It is devoted to news, art, science and progress, and should receive a liberal support.—*Solano Press.*

The MINING AND SCIENTIFIC PRESS comes to us enlarged to double its old dimensions, and otherwise improved. The PRESS is the only journal on this coast devoted exclusively to mining and scientific matters, and should be read by miners everywhere. It is published weekly, at $5 per year.—*Oroville Union.*

OWEN'S RIVER.—We have been allowed the inspection of several letters recently received from this place. The writers of the same speak in the highest terms of their prospects, richness of the country, its healthy and beautiful climate, etc. The rush thither continues to be as great as ever.

San Francisco Stock and Exchange Board.—Prices Bid and Asked.

				Saturday.		Monday.		Tuesday.		Wednesday.		Thursday.		Friday.	
WASHOE STOCKS.	FEET	SHARES.	VAL.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.
Ophir	1,400	16,800	300	1,635	1,650	1,630	—	1,650	—	1,600	1,640	1,602½	1,615	1,610	1,650
Gould & Curry	1,200	4,800	500	4,660	4,700	4,610	4,700	4,650	—	—	—	4,575	4,630	—	4,650
Savage	800	800	2,000	2,600	2,800	2,600	2,700	—	—	—	—	2,650	2,800	2,450	2,750
Chollar	1,300	5,600	300	370	385	390	420	380	395	350	385	325	355	300	370
Potosi	1,400	2,800	500	—	1,300	1,100	1,275	—	1,275	1,075	1,200	1,025	1,200	1,000	1,075
Hale & Norcross	400	800	500	—	—	—	—	700	—	—	—	—	—	650	—
Sierra Nevada	3,000	3,000	500	70	85	70	87½	70	80	65	77	—	85	69	75
Caney	2,000	800	60	197	200	—	195	—	200	180	—	155	180	150	180
Burning Moscow	4,100	4,100	500	97½	100	92	93	89½	92½	93	97	97½	98	98	100
North Potosi	2,000	2,000	250	71	—	72½	73	60	75	66	70	50	60½	62¾	64
Charles Caney	1,800	1,800	30	—	—	—	16½	—	16	—	—	—	16	—	—
Iowa	1,200	1,200	1,000	—	—	—	—	—	—	—	—	—	100	—	—
El Dorado	1,600	1,600	500	25	50	35	50	42½	45	30	47½	25	40	21	40
Norcen	1,600	1,600	50	—	—	4	—	4	10	—	—	—	—	—	9
Burnside	2,800	2,800	500	—	14	—	16	—	—	—	15	10	14	—	—
Adriatic	2,700	2,700	100	7	—	—	11	—	—	8	11	8	8½	8	10
Pride of the West	1,400	1,400	100	90	95	94	95	90	92½	86	89	85	—	85	87
Imperial	184	4,000	500	—	165	—	170	150	162	140	160	157½	160	—	—
Crown Point	600	1,200	100	—	—	—	900	850	—	850	1,000	900	1,000	850	1,100
Manhattan	—	—	—	—	—	—	8	—	—	—	6	—	7	—	7
Seneca	—	—	—	—	—	—	—	—	20	—	—	—	—	—	18
Mt. Davidson tun'l	1,000	1,000	200	1	3	—	3	—	3	—	3¾	1¼	2½	1	4
Caledonia Tunnel	—	—	—	—	—	—	—	22	23	22½	23	21½	22	24½	27
Bajazet & G. Era	4,000	4,000	300	40	70	32½	70	52½	70	52½	70	—	70	65	65
Cedar Hill tunnel	—	1,000	100	—	—	—	—	—	—	—	5	—	—	—	1
Gold Hill Qu'tz Mill	—	—	—	—	—	—	—	—	—	—	—	—	300	—	—
ESMERALDA.															
Wide West	1,400	1,400	2,600	20	22½	21	22	19	20	—	20	18	20	19	20
Antelope	1,200	1,200	500	175	300	210	210	—	220	—	225	—	220	—	210
Esmeralda	1,600	1,600	1,000	—	—	—	—	8	11	8	11	—	—	7½	8
Real del Monte	4,400	4,400	400	55	56	49½	50	40	41	36⅝	37	41	42½	49	50
Utah	1,600	1,600	250	—	—	—	—	18	25	—	18	—	24	—	—
Silver Hill	3,000	3,000	500	—	—	—	—	—	12	—	10	—	—	8	10
Nevada	600	1,200	250	—	—	—	—	—	—	—	5	—	—	—	—
Falls of Clyde	6,000	6,000	100	—	—	—	2	—	2	—	—	—	—	—	—
Bamboo	600	600	500	—	45	—	—	—	—	—	50	—	—	—	—
Crockett	—	—	—	—	—	15	25	—	18	—	18	—	18	8	18
Federal Hope	—	—	—	—	—	1	—	—	—	—	—	—	—	1	—
Jenny Lind	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
COSO.															
Josephine	9,600	4,800	2,500	—	—	—	2	—	—	—	2½	—	—	—	—
Willow Springs	2,700	2,700	100	—	—	—	5	—	2	—	2	1	—	—	1
Coso	2,800	3,600	600	—	—	—	—	—	—	—	2	—	—	—	—
COPPER.															
Napoleon	2,700	2,700	600	—	—	31	65	40	60	40	55	55	60	67	70
Josephine	—	—	—	—	—	—	—	—	—	—	5	6	8	6	7
CALIFORNIA.															
Laurel Hill	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rhodes Diggings	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fellowes	2,500	2,500	100	—	—	20	50	—	—	—	—	—	—	18	—
Maxwell	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rock River	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Eureka	—	—	—	—	—	30	—	31	40	30	40	—	40	—	40
HUMBOLDT STOCKS.															
De Soto	1,980	1,980	100	—	—	33½	50	40	—	48	50	42	45	42	47
Great Basin	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—

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CONTENTS FOR FEBRUARY.

No. 6—FEB. 6.—Lecture on Mining and its Relations to Civilization and Progress—by Professor J. D. Whitney, delivered before the Mechanics' Institute; A Heavy Casting; Coal vs. Anthracite; Mining Gossip—Ophir Dividends, Liberality vs. Litigation, Sharp Transactions and other items; Miners' Laboratory; Owensville Mines; Esmeralda Correspondence; Patent Department; Ho for the Mines! The Foundry Business of San Francisco; Mining Share Market; Washoe Stock Market—Sales, and prices bid and asked in Virginia and Gold Hill; Record of New Incorporations; To Prevent Dampness in Brick Buildings; Sales by the San Francisco Stock and Exchange Board, San Francisco Board of Brokers, and the Pacific Board of Brokers; Prices Bid and Asked; Chippings, and Miscellaneous Items.

No. 7—FEB. 13.—Ventilation of Mines—with Illustrations; Correspondence—Murphys, Calaveras county; The Great Desert and its Mines; Esmeralda Correspondence; California Coal, Iron and Copper; Mining Gossip—by Frank Wardell; Summary of Mining News—from various counties; An Extraordinary Winter; Mechanical Department—Saw Mill, Copper Coating, and other articles; Exposure of Fraud upon Science; Patents and New Inventions; State Polytechnic School; Late E. B. Goddard; Mining Share Market; Washoe Stock Market; The Aquilla and her Cargo; Is there silver this side of the Mountains; Questions Answered; Chippings; Stock Sales; Incorporations, etc.

No. 8—FEB. 20.—Hints to Prospectors; Ventilation of Mines—continued with illustration; Correspondence—Calaveras Mines; Humboldt county, N. T.; From the Humboldt Mines; Santa Fe District, Reese River; From Austin, Reese River; More About Reese River; Mining Gossip; Real del Monte Meeting; Mining Paragraphs; The American Mechanic; Government Experiments in Using Hydro-Carbon Oils for Generating Steam; Patent Department; A Mining School Within Our Reach; A Significant Mining Advertising Bill; Signs of the Times; Gas Explosion in a California Mine; Stock Reports; etc.

No. 9—FEB. 27.—Ventilation of Mines—Editorial; A Gas Cooking Stove—illustrated; Traveling Correspondence—San Andreas, Calaveras county; A Trip to Surprise Valley; From the Humboldt Mines; Mechanical Department—A New Engine for the Gould & Curry Mill, A New Electro-Magnetic Engine; Insect Power; Professor Whitney's Address Before the Legislature; A Mining School for the Day; Summary of Mining News—from Napa county, Sierra, Plumas, Tuolumne, Esmeralda, Humboldt, Reese River, Virginia; Mining Gossip—Real del Monte, Such is Life, After Them, Cannot Agree; Virginia City; Machinists' Tools; Ingenious Piece of Mechanism; Patent Department—Improvement in Generating Steam, A New Crushing Battery, Nail Machine, Improved Saddle; "Chippings;" Washoe Stock Boards; Mining Share Market; Washoe Stock Reports; Record of New Incorporations in San Francisco and Nevada Territory; Stock Sales in San Francisco, for the week, by the Stock and Exchange Board, the Pacific Board of Brokers, and the Stock Exchange; Report of Prices Bid and Asked; A Correct Idea; New Use for Alcoholic Drinks.

CONTENTS FOR MARCH.

No. 10—MARCH 5.—Communication—"Pocket Veins;" Hints to Prospectors; Sierra District, Humboldt county—Description of a Representative Mine; Slang of the Stock Exchange; On the Loss of Gold Attending the Process of Amalgamation; Fraud of Petroleum; Wide West Mining Company; The Term Reese River; Mining Gossip; Washoe Stock Market; Mining News and Items; Our Mechanical Interests; Unwise Recommendation; Coal Creek Coal Company; Patent Department—McCauley's Steam Condenser, M. D. Garrard's Amalgamator, A California Invention, Etc.; A Mining School for San Francisco; A Formation of Black Oxide with a Supposed Decomposition of Nitre; The Drought and Gold Crop; San Diego Copper; Decidedly Arbitrary; Mining Share Market; New Incorporations; The Northern Gold Fields; Stock Market Reports; "Chippings;" Etc.

THE MINING AND SCIENTIFIC PRESS contains 16 pages in each No., and 417 in each volume; two volumes a year. Terms, in advance, 1 year $5; 6 mos. $3; 5 copies, 1 year, $20. For sale by all newsdealers. Liberal commisions allowed all who act as agents.

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THE MINING AND SCIENTIFIC PRESS.—This excellent journal come to us greatly enlarged both in size and extended information. It I the most useful, instructive and necessary paper published in San Francisco for the benefit of miners and scientific men. It should be patronized by every man who has an interest in our mines; for there is no paper in San Francisco that takes such an interest in making favorable mention of the mines in this section and so willing to do them justice as this. It is published by Messrs. Dewey & Co., who are men of ability and understand thoroughly the subjects which they write about. It is a paper of more advantage to the Pacific coast, than is the *Scientific American* to the Atlantic States. It gives full and regular statements of the metal market—of Iron, Copper, Steel, Zinc, Lead and Tin—new incorporations and the price of stocks as they are held in the Stock Broker's Market, together with the daily transactions of the different Boards. Besides this it publishes all the new improvements being made in machinery and the methods of reducing and treatment of ores. In fact it is the greatest necessity of this coast for Miners and Scientific men, for in it they may learn nearly everything they may want to know. It is ever a welcome visitor to our table, and we trust to receive it as regular in the future as we have in the past.—*Esmeralda Star.*

"CHIPPINGS."

KNOWLEDGE and timber should not be much used till they are seasoned.

NEVER quarrel with a lady. If you are troubled with her, retreat.

THEATRES and balls are often the mere embroidery on the tattered clothes of civilized life.

THE present Mayor of Manchester, England, was formerly a vendor of newspapers. Encouraging to newsboys.

MR. SPURGEON, the great English sensation preacher, had to remonstrate with the young ladies of his chapel for fainting away so often.

THE "false hair merchants" of London import annually, at present, no less than five tons of maiden locks. So says an exchange.

NEW GREEN COLORS.—At the recent annual meeting of the Academy of Science, in France, a prize of $500 was awarded to M. Guignet for the preparation of a non-injurious green for printing on tissues, and another of $300 ($1,500 francs,) to M. Bouffe, for having discovered a substitute for a non-arsenical green in the manufacture of artificial green.

WATER-PROOF BOOTS AND SHOES.—Take three ounces of spermacetti and melt in an earthern vessel over a slow fire; add thereto six drachms of India rubber, cut in slices, and these will presently dissolve; then add of tallow eight ounces; bog's lard, two ounces; amber varnish, founces; mix, and it will be fit for use immediately. The boots or other matcrials to be treated are to receive two or three coats with a common blacking brusb, and a fine polish is the result.

WONDERFUL.—An exchange says it is horrible to think what discoveries science is constantly making. It is not sufficient that some eminent astronomer at Cambridge should discover a comet per month, but Professor Tyndall must state that the weight of this earth is such, and the velocity with which it moves so great, that if it should suddenly stop, the heat it would create would be sufficient to reduce it to a thin vapor. Prof. Tyndall adds that, "if after the stoppage of its motion the earth should fall into the sun, as it assuredly would, the amount of heat generated by the blow would be equal to that developed by the combustion of 5,600 worlds of solid carbon."

THE DESERT MINING DISTRICT.—This district appears to be constantly growing in favor and intcrest. The Virginia *Union* of February 27th says:—Tbe minerals in the Desert District consist mostly of gold, and although the ledges are, as a general thing, narrow on top—being only from one to two feet wide, they expand as descended upon, holding their richness at the same time. At a depth of fifty or sixty feet, the lowest depth yet reached on any of them, several have a width of five feet, and are extremely rich in gold—much of it free, and some of the specimens surpassing anything ever found in Gold Hill. The Mark Anthony and Cleopatra ledges, composing the ground of the Golconda Company, amongst the best in the District, are opened by means of a shaft fifty feet deep, and being large and full of metal, are considered very valuable. In the Sebastopol and New Virginia Districts the metal is almost exclusively silver, the rock bearing a close resemblance to that found about Austin, and so far as assays go, it would seem to be nearly equal to the Recse River ores. The Smith & Warfield ledge in Sebastopol is said to be one of great promise. One of the chief drawbacks to the progress of this mining district—the lack of a good road—will soon be obviated. The problem for a supply of water, however, appears to be more difficult of solution. The ditch plans appear to have all resulted in failures, being impracticable. Drinking water is now being packed to the mines from the slough of the Humboldt and sold at two bits a gallon.

Professor Whitney's Lecture.—Extra copies of the MINING AND SCIENTIFIC PRESS of February 6th, 1864, containing the lecture of Prof. J. D. Whitney, (State Geologist,) on "MINING AND ITS RELATIONS TO CIVILIZATION AND PROGRESS," can be obtained by calling at this office.

Pacific Mail Steamship Company.

THE FOLLOWING STEAMSHIPS WILL BE DESPATCHED FROM SAN FRANCISCO IN THE MONTH OF MARCH, 1864.

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March, 12—ORIZABA.....E. S. Fransworth, Commander.
March, 23—CONSTITUTION,.....J. T. Watkins, Commander.

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Miscellaneous Advertisements.

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The public are informed that Letters Patent have been granted the undersigned upon Steam Chest False Bottoms for the inside of Amalgamating Pans or Tubs, and are cautioned against making, buying, using or selling the same without his consent.
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no16-tf ZENAS WHEELER.

To Quartz Miners.

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A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S. Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.
scp21

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Essex Gold & Silver Mining Company.
Tehama Gold & Silver Mining Company.
Crown Point Consolidated Tunnel Mining Co.
Nicolaus Gold & Silver Mining Company.
Scottish Chief Consolidated Tunnel Mining Co.

Notice is hereby given that at a meeting of the several Boards of Trustees of the following and above named Companies, held in the City of San Francisco on the 19th day of October, A. D. 1863, the following assessments were duly levied, payable immediately to the Secretary in U. S. Gold Coin at his Office No. 509 Clay st., San Francisco, or to S. F. Ambler, Austin, N. T.

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Tehama G. & S. M. Co	25 cts.
Crown Point Consolidated Tunnel & M. Co	50 cts
Nicolaus G. & S. M. Co	10 cts
Scottish Chief Consolidated Tunnel & M. Co	10 cts

All the mines of the above named Companies are located in Reese River Mining District, Lander county, Nevada Territory. By order of the Board of Trustees. D. B. FRANCIS, Sec'y.

Office, No. 509 Clay street. 11v8-4t

Bodie Bluff Consolidation Mining Company, Bodie District, Mono Co., Cal.—February 27th, 1864.—At a meeting of the Board of Trustees of the above named Company, held this day at the Secretary's Office in the town of Aurora, the following among other proceedings were had, viz:—*Resolved*—That an assessment (No. 3,) of one dollar upon each share of the Capital stock of the aforesaid Company be and the same is hereby levied, payable immediately in U. S. Gold Coin, or its equivalent in Legal Tender Notes, to the Secretary, at No. 614 Montgomery Street, San Francisco. *Provided*—That all the Stock upon which the assessment (No. 2,) of Fifty cents per share, levied June 13th, 1863, has been paid, only fifty (50) cents per share shall be paid under this assessment.

Resolved.—That the Transfer office of the Company be removed to San Francisco. By order of the Board of Trustees.

11v8-5t F. K. BECHTEL, Sec'y.

Pride of Nevadn Mining Company, Reese River District, Nevada Territory.—Office, No. 620 Washington St., San Francisco.—Notice is hereby given, that the Board of Trustees of the Pride of Nevada Mining Company at a meeting of said Board, held March 8th 1864, levied an assessment (No. 1,) of fifty (50) cents on each and every share of the assessable stock of said Company, said assessment payable immediately in U. S. Gold Coin, to the Secretary, or to A. E. Shannon, Superintendent.

1I-4t H. B. CONGDON, Sec'y.

Billet Gold & Silver Mining Company, Gen. Scott Ledge, Augusta Mining District, Lander County, N. T.—Notice is hereby given that at a meeting of the Board of Trustees of this Company, held this 5th day of March, A. D. 1864, an assessment of Twelve and one half (12½) cents per share was levied upon each and every share of the Capital Stock of the Company, payable immediately to the Secretary, in U. S. Gold Coin, at his Office, No. 509 Clay Street, San Francisco, or to S. F. Ambler, at Austin, N. T. By order of the Board of Trustees. D. B. FRANCIS, Sec'y.

11v8-4t

Santa Maria Silver Mining Company, Santa Fe District, Lander county, Nevada Territory. Office 305, Montgomery street, San Francisco, Feb. 23, 1864.—Notice is hereby given that at a meeting of the Board of Trustees, held this day, an assessment (No. 2) of fifty cents per share was levied on each and every share of the capital stock of the above company, payable immediately, in gold coin, to the Secretary, at his office. By order of the Board of Trustees. (9v8-4t.) J. S. LUTY, Sec'y.

Emmett Copper Mining Company, Office No. 645 Clay Street, San Francisco, February 19th, 1864.—Notice is hereby given to the Stockholders of the Emmett Copper Mining Company, that an assessment, No. 4, of 37½ cents per share was this day levied on each and every share of the Capital Stock of said Company, payable immediately in United States Gold Coin, to the Secretary, or to L. Honigsberger, Copperopolis.

8v8-4t M. G. ELMORE, Sec'y.

Give the Name of the District.

We are requested to call the attention of Secretaries of Mining Companies to the importance of inserting in their advertisements, of whatever character, the name of the district or locality. Considerable trouble arises from this neglect, as there are Companies bearing the same name, although situated in different localities. Attention to this matter will not only be a benefit to others interested in Mining Companies, but also to the Secretaries themselves.

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. The Mining and Scientific Press Patent Agency has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

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Important Improvement
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Will be conducted with ability, in a liberal and reliable manner sparing not in expense, veneration for honesty, or respect for common sense.

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Will be employed to furnish us full and reliable information concerning newly-discovered mines; and through vigilant efforts we shall secure for our readers the latest intelligence from all important mining localities. In our list of

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Practical Hints

With regard to the manner of working and securing mines, derived from the actual experience of parties in our own and other countries. Also hints concerning the location and possession of mining grounds; the laws peculiar to different districts and countries; and notices of all important decisions of the law in mining cases. As a

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The bound volumes of the Press will find no rival in value to the intelligent and industrious citizens of the Pacific Coast, who cannot but feel a source of pride in the history of the inventions, discoveries and prosperous developments of the remarkable era through which we are now passing.

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As presented in our columns will be found correct, distinct and most convenient for preservation and future reference.

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As a paper for mailing regularly to your friends in the East, or to correspondents elsewhere, none can be selected more appropriate, or better calculated to dispense reliable information with regard to transpiring events on this coast and the progress of California.

Specimen copies will be sent free to those desiring to examine the paper before subscribing. Postmasters, Express Agents and Newsdealers, acting as our agents, will receive liberal commissions.

Friends pleased with our efforts in the publication of the Press can render us essential aid by furnishing correspondence and all important information which may come under their observation, and by calling the attention of their neighbors to the commendable features of the paper; the appreciation of which favors will be duly manifested by the constant improvement of our journal.

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Information Furnished.—Miners, Mechanics and others desiring information upon any subject relating to inventions and discoveries, or the principles of mining, mechanism, chemistry or natural sciences, by addressing us will receive answers to their enquiries, either through the columns of the Press—or by private letter, in accordance with the best judgment and information we can obtain.

The Law for Publishing Legal Mining Notices.

An utterly erroneous opinion having been engendered in the minds of some (through misrepresentations and interested motives of others), that the laws of this State technically require the publication of mining notices to be be made in a daily paper, we take occasion to quote the following positive passage concerning the publication of mining notices, from the latest statutes passed by our Legislature on the subject, March 5th, 1861, which has not since been altered or amended:—

"Notice of each such call, or assessment, shall be given to the respective stockholders personally, or shall be published once a week for at least four weeks in some newspaper published at the point designated as the principal place of business of the corporation, and also in some newspaper published nearest to the point where said mining operations are being carried on. If, after such notice has been given, any stockholder shall make default in the payment of such call, or assessment, as to the shares of stock held by him, so many of such shares may be sold as will be necessary for the payment of the call, or assessment, on the shares held by him. The sale of said shares shall be made as prescribed in the by-laws of the company; *provided*, that no sale shall be made except at public auction to the highest bidder, after a published notice of thirty days, published as above mentioned; and that at such sale the person who will agree to pay the call, or assessment, so due, together with the expense of advertisement and the other expenses of the sale for the smallest number of whole shares, shall be deemed the highest bidder."—[Passed March 5th, 1861—Stat. 1861, p. 14.

The above is indeed plain, and we hold ourselves responsible for the assertion that a weekly issue of a mining notice is as valid as that of a daily. By publication in the Mining and Scientific Press, a wide circulation is given to notices, particularly among miners and shareholders in this city and throughout the State and Nevada Territory. A weekly publication is also secured at a material saving in cost to shareholders.

Poindexter Silver Mining Company, Reese River Mining district, N. T.—Notice is hereby given, that at a meeting of the Trustees of the above named Company, held the 20th of October, 1863, an assessment of Fifty cents per share was duly levied on each and every share of the Capital Stock of the Company; and at a meeting of the Trustees held Feb. 27th, 1864, an assessment, No. 2 of fifty cents per share was duly levied on each and every share of the Capital Stock of said Company, payable immediately to the Secretary, in U. S. Gold Coin, at his office, No. 35 Government House, or to the Agent, Wm. Alpheus Smith, at Austin, N. T.

San Francisco, March 1st. (10v8-1m) JAS. C. NORRIS, Sec'y.

Office of the Belle Silver Mining Company, Santa Fe District, Lander county, Nevada Territory. San Francisco Feb. 23, 1864.—Notice is hereby given that at a meeting of the Board of Trustees of the above Company, held this day, an assessment (No. 2) of fifty cents per share has been levied on each and every share of the capital stock, payable immediately, in gold coin, to the Secretary at his office. J. S. LUTY, Sec'y, 305 Montgomery.

9v8-4t.

Maryland Silver Mining Company, Santa Fe District, Lander county, Nevada Territory. Office 305 Montgomery street, San Francisco, Feb. 25, 1864.—Notice is hereby given that at a meeting of the Board of Trustees of the above named company, held this day, an assessment of fifty cents per share has been levied on each and every share of the capital stock, payable immediately to the Secretary, at his office. By order of the Board of Trustees.

9v8-4t. J. S. LUTY, Sec'y.

Picayune Gold, Silver and Copper Mining Company, Bear Gulch, Calaveras Co.—At a meeting of the Board of Trustees of the above Company, on the 17th day of February, 1864, an assessment of six cents per share on each and every share of the Capital stock of the said Company was levied, payable on or before the 22d, day of March, 1864. And Notice is also hereby given that the first annual meeting of the Stockholders of the said Company will be held on Tuesday the 22d day of March 1864, at the office of the Company at Copperopolis, for the purpose of electing officers for the ensuing year, for the adoption of By-laws, and for the transaction of such other business as may come to its notice. All Stockholders are respectfully requested to attend.

By order of the Board of Trustees,

L. HONIGSBERGER, Sec'y.

Copperopolis, Feb. 17th, '64. 9v8-4t

Imperatrice Silver Mining Company, Santa Fe District, Lander county, Nevada Territory. Office 305 Montgomery street, San Francisco, Feb. 24, 1864.—Notice is hereby given that at a meeting of the Board of Trustees, held this day, an assessment (No 2) of fifty cents per share was levied on each and every share of the Imperatrice Silver Mining Company, payable immediately, in gold coin, to the Secretary, at the Company's office. By order of the Board of Trustees. (9v8-4t.) J. S. LUTY, Sec'y.

Enterprise Copper Mining Company.—Office 645 Clay Street, San Francisco, Feb. 13th, 1864.—Notice is hereby given, that there will be sold at the Office of the Enterprise Copper Mining Company, on Saturday March 19th, 1864, at 10 o'clock A. M. so many shares of the Capital Stock of said Company as will be necessary to pay all assessments due and delinquent, standing in the names of the following parties:

NAMES.	NO. SHARES.	AM'T. DUE.
Abell & Evans,	200	$ 52
A. Bateman,	125	32 50
Belcher & Schwarz,	34	8 84
M. Berkowitz,	50	4
John Cochran,	25	14
J. M. Cannon,	25	14
J. P. Dameron,	100	46
Wm. Davis,	25	6 50
Thos. Donahue,	15	8 40
James Daley,	10	2 60
D. Eisner,	133	21 28
Wm. Harris,	400	204
J. Krone,	133	34 58
J. E. Kincaid,	25	6 50
T. S. Levy,	2000	475
V. C. Putman,	200	52
P. Robinson,	200	52
E. F. White,	200	52

By order of the Board of Trustees. M. G. ELMORE, Sec'y.

San Francisco, Feb. 12th, 1864. 7v8-4t

Brown's Bronchial Troches.—These Lozengers are prepared from a highly esteemed receipe for alleviating Bronchial Affections, Asthma, Hoarseness, Coughs, Colds, and Irritation of the Throat.

PUBLIC SPEAKERS AND VOCALISTS

Will find them beneficial in clearing the voice before speaking or singing, and relieving the throat after any unusual exertion of the vocal organs, having a peculiar adaption to affections which disturb the organs of speech.

Agents for California, Remington & Co., San Francisco. 10-1m

Mr. Jarvis Jewett is our duly authorized advertizing agent and collector in this city.

Mining and Scientific Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

VOLUME VIII. SAN FRANCISCO, SATURDAY, MARCH 19, 1864. NUMBER 12.

Contents:

No. 12—March 19.—Farrand's Amalgamator—Illustrated; Important Developments; Copper as an Investment; What Science Saves in Mining; Treatment of Gold Ores and Sulphurets; Treatment of Silver Ores; Washoe Mining Items; Mechanical Department; Mining Gossip; Patent Department; A Remarkable Indian Tradition; Mining Share Market; San Francisco and Washoe Stock Reports; "Chippings;" Etc.

Editorial.

Importance to a California Miner of a Knowledge of Mineralogy.

NUMBER II.

The practical miner seldom holds mineralogy or geology in much estimation, and smiles at the nice discriminations of the mineralogist. If any enquiry into the interesting phenomena of metalliferous veins he made of him, he generally prefers the theory of his forefathers to that which has arisen from the results of more recent scientific investigations.

It must not be inferred from the foregoing remarks that I undervalue practical knowledge, so far from this I am convinced that scientific, apart from practical knowledge, would lead to erroneous and occasionally ruinous results.

It is surely clear to all that the miner ought to be thoroughly acquainted with the nature of those substances which it is his daily task to seek in the recesses of the earth, as well as with those which exert a favorable or a pernicious influence either on the abundance or quality of the objects of his search. For instance, the presence of galena (sulphuret of lead) and blende (sulphuret of zinc) in the auriferous veins of his district, are perhaps as good an indication of the richness of the vein as any we can have, where the gold itself is not visible. When it is necessary to assort the veinstone, so as to reject the poorer parts before stamping it, as practised in most of the Brazilian gold mines, a knowledge of mineralogy is of great assistance. The separation by the hammer (a most important process) is but little used in this State. Some of the mining districts of Great Britain are utterly destitute of the means of mineralogical education, and it is common to find some of the most intelligent miners only acquainted with one or two substances, which are brought prominently before them in the routine of their employment.

It is a fact, that for some years lime was exported to New South Wales, where it existed in abundance in its natural state, and it is notorious that the discovery of gold in Australia was not made till after it was found in this country.

Cornwall, although it has been celebrated for its tin mines from the earliest periods of history, yet, until the last century, the ores of copper were used to repair the roads, and whenever copper appeared in a vein, it was a common expression that "the ore came in and spoilt the vein." Even when the yellow ore or copper pyrites had been long appreciated, the sulphide of copper was thrown away, and the rich, black ore, or oxide of copper, was washed into the rivers.

In Derbyshire and Cumberland, although it is indisputable that lead has been smelted from the common blue ore (sulphuret of lead) ever since the government of the Romans, yet the other ores of the same metal (white carbonates of lead, etc.,) were never thought of, but left in heaps as rubbish—the public roads which had in some instances been repaired with these rejected ores, have been taken up and smelted to good account. The ores of zinc, both sulphurets and carbonate, were likewise thrown away in many of the mining districts of England, until within the last few years. I have known blende mistaken for lead ore, and a blast hearth erected to reduce it. and in another case, from its resemblance to a certain iron ore, a considerable quantity was bought and conveyed to one of the largest iron works in South Wales.

I did not suppose when assisting to collect the series of iron ores for the Great Exhibition of 1851, that the few stones I took from the oolitic formation, would have been attended with such important results. It soon after led to the discovery that the road into Northampton had been cut through rich iron ore, which in some places had a thickness of twelve feet. Then they were ignorant of its value, but now it is being sent in immense quantities to supply the Staffordshire iron works.

So much having been overlooked in a country densely populated like Great Britain, whose mines now yield on an average about $150,000,000 per annum, it is reasonable to conclude that still further and more important discoveries will yet be made in this State.

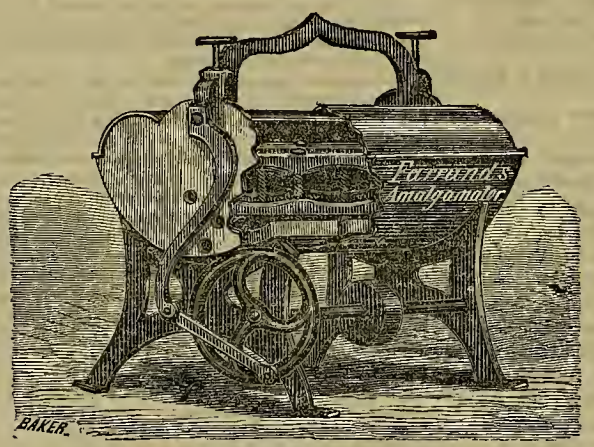
It is true that the most valuable productions of the mineral kingdom are met with in such a state of impurity from mechanical aggregation and admixtures, that the particular minerals of which they are composed are not separable by physical means; others occur only in an amorphous or irregularly shaped condition, and that scientific mineralogy describes only the most perfect individuals, or crystals of each species; bodies which are rarely met with—hence the necessity and advantage of a good collection of minerals, and the great importance to a State like California to have a museum of practical mineralogy and geology. *

Meteorological Observations.—Downieville, Sierra county; altitude, 2,931 feet. Reported by Dr. T. R. Kibbe, for the month of February :—

Amount of rain during the month of February, .55.
Lowest range of thermometer 27° (above zero).
Mean temperature for the month, from observations taken o'clock P. M., in the shade, 62.04.
Clear days, 27.

FARRAND'S AMALGAMATOR.

The accompanying illustration presents a perspective view of Farrand's new patent amalgamator, with a portion removed so as to admit of a partial inside view of the same. This machine consists of a semi-cylindrical, trough-shaped vessel, the interior of which is furnished with moveable concave dies, to be replaced when worn out, as in ordinary pans. The mullers are convex and attached to a substantial rock-shaft, by which they are moved back and forward by crank or eccentric motion. The mullers are held to their places by springs of moderate strength the pressure of which may be easily regulated. The oscillating motion of the mullers serves to keep the pulp in a constant state of agitation, thoroughly mixing it, and passing it under the mullers without resort to any of the various expedients employed in pans where a circular motion is maintained. In working this amalgamator no quicksilver is placed in the pulp until the trituration is completed. That done the mullers are raised, so as to completely break contact with the dies, the quicksilver sprinkled into the mass and the machine set in motion again, the mullers simply acting as stirrers; which they do most effectually. The peculiar construction of this machine admits of its being worked with a much smaller charge of quicksilver, to any given amount of pulp, than the flat bottomed pans. It is moreover claimed that these springs greatly assist in the work of reduction, by allowing the free admission of the pulp between the mullers and dies, so that the pulp is made to actually work upon itself—as the dust of the diamond is made to reduce the gem itself. The advantage derived of thus avoiding all trituration in the presence of the quicksilver, must be apparent to every one, at all acquainted with gold or silver amalgamation. Trials made with this machine in the presence of *experts*, have been pronounced highly satisfactory. It is said not only to do its work most excellently well, but to accomplish more in a given time, than can be done by the ordinary pan process. It is claimed that the peculiar action of this machine results in a great saving of power over the ordinary process. Of this parties will have ample opportunity to satisfy themselves, by personal inspection of the machine, now in operation on Market street nearly opposite Sansome, but which will soon be removed to Commercial street between Davis and Front. This amalgamator also possesses important advantages in the way of simplicity and economy of work and construction. We should judge it could be manufactured for a comparatively low price; and being lighter in its construction and general details, can be transported to places of difficult access at light comparative cost. It is peculiarly well adapted to employment by small mining operators in distant localities, as it can be readily taken to pieces and packed upon mules. The machine will be constructed of various capacities to work from 300 to 600 lbs. in three hours.



A NEW AMALGAMATOR.

TREATMENT OF SILVER ORES.

The amalgamation of silver ores is usually performed by two distinct processes. In Europe the process generally known as the "Freyberg Process," is almost universally employed. The second is known as the "Mexican Process," and differs from the European chiefly in being conducted without any previous roasting of the ores.

The processes generally employed in Washoe are of a complex character, consisting of various modifications of the European and Mexican processes. It is not until quite recently that the Washoe ores have, to any great extent, been submitted to previous roasting. The simpler character of these ores, when found near the surface, has hitherto been such that they have yielded to mere mechanical processes. As the mines have progressed in depth, however, the ore has has materially changed to a more stubborn character, presenting the usual characteristics of silver ore as found in European and South American mines. Roasting will soon, in all probability, have to be generally resorted to.

The following are some of the principal processes employed in Washoe, where previous roasting is not resorted to. The ingredients are usually placed in a cask with water and dissolved by heating with steam; a portion of the liquor thus formed is drawn off and placed in the pan with each charge of sand:—

To 12 tuns rock: 10 lbs. copperas, 20 lbs. sulphate iron, 10 lbs. catachu, 3 lbs. sal ammoniac, 150 lbs. salt.

To 5 lbs. rock: 4 ozs. oxalic acid, 4 ozs. nitrate potash. 3 ozs. alum, 1 oz. sal ammoniac, 12 ozs. salt.

To 60 gallons water, add 4½ lbs. sulphate iron, 2 lbs. sulphate copper, 1½ lbs. sal ammoniac, 2 to 10 lbs. gum catachu. To 100 lbs. sand put 2 quarts of this; before flowing off, add salt.

To 10 tuns rock: 30 lbs. sal sodium, 6 lbs. sul. copper, 3 lbs, sal ammoniac.

To 100 lbs. rock: 18 ozs. nitrate potash, 1 oz. sulphate sodium, 18 ozs. salt.

The relative proportions of the several ingredients must of course be varied to suit the different characters of ore. It requires skill and experience to accomplish this successfully; but a competent amalgamator will soon discover, by experiment, the modifications necessary. The above are merely the basis of the processes. The operator must so apportion his forces as to make the attack successful.

The second, or "Mexican Process," known also as the Pateo Process, was described at length in our columns, some fifteen months since; but, in accordance with the request of numerous readers, who have since become subscribers, we propose to reproduce those articles, or give a digest of them, at some future time.

The first, or European process, is probably more systematically and economically conducted at Halsbrucke, in the immediate vicinity of Freyberg, Saxony, than at any other locality. The usual constituents of the ores there treated, in addition to the silver they contain, are sulphur, arsenic, antimony, copper, lead, iron and zinc, which are more or less mixed with various earthy minerals, besides sometimes containing small quantities of bismuth, nickle and cobalt. It will be noticed by those acquainted with the silver ores found on the Pacific coast, that those treated at Halsbrucke are similar to the most refractory portion of the ores found at and beyond Virginia City, and especially in the Humboldt region, with the exception of the "nickle and cobalt." Zinc is sometimes found in the silver ores of this coast. The important distinction between the European and the Mexican and the complex process employed at Washoe, consists in the previous "roasting." This process is correctly described as follows in "Pique's Practical Treatise" on the chemistry of gold, silver, etc. We copy:—

In the selection of these ores, they are so assorted as not to contain above four per cent. of lead, or one per cent. of copper, as from combining with the mercury added, these metals give to the amalgam a pasty consistency, and thereby render the treatment extremely difficult and expensive. The different ores selected for amalgamation vary in richness from fifteen to two hundred ounces per ton. Formerly the mixture of these ores was so arranged that the charges of the furnaces should always contain from seventy to eighty ounces per ton. It is, however, now usual to work the poor and rich ores separately, since it is found that the total loss of silver in the residues is thereby considerably diminished.

The mixtures of the poorer ores afford, on an average, from thirty to forty ounces per ton, whilst the amount of silver in those of the richer ores varies from ninety to one hundred and thirty ounces per ton. It is essential that both mixtures should contain a certain proportion of sulphide of iron, which is necessary to the success of the roasting process. The quantity of sulphide of iron should not be less than about twenty-five per cent. If the amount of pyrites, naturally occurring in the ores, is not equal to this proportion, addition is made either of that mineral or of ready formed sulphate of iron. Frequently, however, the ores at Freyberg contain much more pyrites than is required, and in such cases it is advantageous to subject a few of the most sulphurous *to a previous roasting without salt*, in order to reduce the average amount in the whole to the right proportion.

The ore when prepared is laid on a large floor, 40 feet in length and 12 in width, and on the top of it is thrown about ten per cent. of common salt, which is let drop from an upper room, through spouts placed in the floor for that purpose. The heap, when it has thus been made up of alternate strata of ore and common salt, is well mixed by being carefully turned over with a shovel, and then passed through a coarse sieve. It is subsequently divided into small parcels, called *roast-posts*, each weighing from four and one-half to five cwts. Some idea may be obtained of the annual amount of ore thus treated from the fact that the salt annually employed for this purpose at the Halsbrucke works amounts to five hundred tons.

The mixture of ore and salt is now roasted in reverberatory furnaces, provided with fume flues, for the reception of the pulverulent matters, mechanically taken over by the draught.

The prepared charge is spread on the bottom of the hearth, where it is at first gently heated, for the purpose of expelling the moisture, which to a greater or less extent it invariably contains. During the process of drying, which usually occupies from twenty to thirty minutes, the charge is kept constantly stirred by a long iron rake. The lumps, which are formed in this operation, are then broken down by means of an iron beater, provided with a long iron handle. The heat is afterwards raised, white fumes are given off, and in about two hours from the commencement the whole mass has become red hot. The charge is occasionally turned so that every particle of ore may be equally exposed to the fire; and during the whole time, the mass must be diligently stirred with the rake. The fire is now left to burn down and the combustion of the sulphur aided by constant stirring. This must go on without intermission until the mass has become quite dark, and a sample taken from the furnace no longer evolves any odor of sulphurous acid. During this period the ore increases in volume, and the particles hang so loosely together that the movement of the cake is scarcely at all impeded. The heat is again raised for about three-quarters of an hour; formed in the combustion of the pyrites, reacts on the common salt, and causes the evolution of chlorine and hydrochloric acid gases, which, coming in contact with the sulphide of silver, quickly convert it into chloride. The chlorides of the other metals present are at the same time formed, together with sulphate of soda. When the roasting is terminated, the charge is raked from the furnace into an iron barrow, and thence removed to an adjoining floor. The ore is afterwards raised to an upper story for the purpose of being passed through a set of sieves, by which the finer powder is separated from the agglutinated lumps. These are broken down to a proper size, and a part re-roasted by adding a small quantity to each of the ordinary charges. The remainder is mixed with two or three per cent. of salt, and calcined in the usual way. The finer particles, which pass through the sieves, are, on the contrary, taken to a pair of heavy mill stones, where they are reduced to the state of an impalpable powder.

After the roasting, the ore, besides various earthy salts, consists chiefly of oxyd of iron, basic sulphate of iron, the protochloride and perchlorides of iron and copper, and portions of oxyd and sulphate of copper, sulphate of lead, oxyd of antimony and zinc, and a small quantity of metallic sulphides, in addition to sulphate of soda, and the excess of common salt employed. The compounds of silver, originally present in the mineral, are found to be converted into chloride, with the exception of a trace of metallic silver, and perhaps also of a minute quantity of sulphide and oxyd of silver, which remain in the residues. The charge in roasting suffers a considerable diminution in weight, amounting in general to about ten per cent. This loss is due to the escape of sulphur, chlorine, particles of salt, zinc, antimony, arsenic and chloride of iron.

The *roasting* being thus completed, the amalgamating is next performed by the "barrel process," now in general use in Washoe, and with which our silver miners are generally so familiar that an extended description is scarcely needed.

TREATMENT OF GOLD ORES.

A series of important and highly interesting experiments for the thorough and economical working of gold ores, was undertaken some five or six years ago, under the authority of a Commission appointed by the Russian government, and especially directed by some of the most eminent chemists and best practical miners in Europe. The results of these experiments were published in Europe at the time, and excited no little degree of interest among those engaged in gold quartz mining.

These researches and experiments were principally confined to two leading objects: — 1st, the utility, or economy of roasting the ores in bulk, before crushing; and 2nd, to an enquiry into the nature of the auriferous pyrites, and the best mode of treating them with reference to the extraction of the gold which they contain. It is our present purpose to lay before our readers some account of these and other experiments, with incidental remarks and the conclusions. We propose to consider first the

ROASTING OF GOLD ORES.

The economy of this process is a matter which has attracted the attention of both the scientific and practical miner for upwards of two centuries. As long ago as 1629 Lazarus Erckern, the Assayer General of Germany, published a work on gold ores and metallurgy, in which he took ground against the practice of "roasting" gold or silver ores, for the reason that careful experiments had satisfied him that a large percentage of the metal was lost by the operation. Since that time much has been written upon the subject, and, until recently, a very great diversity of opinion has existed among miners and scientific men in England and on the continent. Modern discoveries in chemistry have very greatly facilitated researches of this description, and such experiments are now conducted in a manner which dispels all doubt as to the accuracy of the results and conclusions arrived at. It is under such favorable circumstances that the experiments above alluded to have been made and the conclusions drawn therefrom are very decidedly *against the roasting process.*

The official report of the Russian experiments, which were conducted among the mines at Ecatharineburg, states that the ore when roasted in hermetically sealed crucibles lost 20 per cent. of gold, and 4¾ per cent. of silver. Ore roasted on an uncovered hearth resulted in a loss of *forty per cent.* of gold, and *twenty-one per cent.* of silver! The same experiments were repeated at many different mining localities, and everywhere with similar results. They have also since been repeated in England, though in a less elaborate manner, but still with sufficient exactness to satisfy the experimentors of the general correctness of the result given in the Russian official report.

The following are the published opinions of several practical miners and metallurgists in different parts of Europe, who have devoted much attention to this subject:

"Trehern, at Marmato, roasted the ore in a reverheratory furnace, and though the show of gold was great, it only yielded about one fifth of what was obtained from an equal portion of the unroasted pyrites.

Leary, at Marmato, roasted his ore and found he got less gold than he would have obtained by the most ordinary method of the Batea. He roasted his ore to that degree, 'that the color of the slime, which

escaped in abundance from the stamp pits, was deep red brown, or hematite red.'

Again, he found one-third of the gold remained after roasting, in some manner nssocinted with the sulphuret of silver, and other products formed by the process of roasting.

Degenhardt has an opinion that the gold forms a sulphuret and is perhaps carried off through the chimney, on account of the silver, which formerly was alloyed by the gold having entirely disappeared during the process of roasting.

Philips in his 'Metallurgy,' says: 'Gold is not directly attacked by sulphur at any temperature; but when fused with the alkaline sulphurets, is rapidly acted on with the formation of a double sulphuret, in which the sulphuret of gold acts the part of an acid.'

'I am fully impressed with the belief that the ore if ever roasted will cause you a loss of that gold, which could have been much easier ascertained by simply stamping it, and causing it to pass over mercury or skins.'" — *MS. Correspondence.*

Whether the loss from roasting, results mainly from the carrying away of the extremely fine particles of gold by the upward current of air from the burning mass, as a light breath of wind carries off the leaf gold in a guilder's room; or whether some chemical change in the gold occurs by which it is oxydized; or whether the loss results from sublimation are matters with regard to which there is yet much diversity of opinion. All are agreed, however, that serious loss arises from both the first and third suppositions; but with regard to the "oxydization" much doubt exists — although there is great probability that such a chemical change may take place to a limited extent.

Whatever difference of opinion may exist with regard to the causes of loss, the practical question of the economy of roasting is now very definitely settled among European operators in gold ores, and it should be considered a conceded fact among our own miners, that gold or silver ores roasted, either in open heaps or reverberatory furnaces, or in any other manner, will not yield as much ore as a similar portion of the same ore taken from the same heap, and equally rich, will do without being roasted.

SULPHURETS—THEIR NATURE AND TREATMENT.

It is a mistaken idea, and one which has too generally obtained, that practical gold mining needs but little or no study beyond that necessary for the mere mechanical extraction of the ore from its veins, and the most economical method of reducing the same, preparatory to its passage over the blankets or through some approved apparatus for amalgamation. In no part of the world is this idea more general than in California. This fact arises, no doubt, in the circumstance that here are found great numbers of veins exceedingly rich in the precious metal, where but very little attention is needed to realize almost fabulous returns. Here, men in their anxious haste to get rich, cannot stop to study or closely examine, but pass on from one locality to another, in the eager search for a "great strike," where they may take out their "pile" in a few months, or years at most, and then go elsewhere to enjoy their gains. While a scanty few are successful in such practice, the great mass, thus go on from one location to another for months and years, until they become perhaps discouraged and disgusted with the very idea of mining. It was owing to this latter characteristic of our miners that quartz mining was so well nigh abandoned a few years since in this State; it is to the wiser policy of patient and intelligent application—of study and close examination, that we now behold this interest taking a leading position in our industrial pursuits. It is to be hoped that the period is not far distant when a full and thorough investigation of the properties and condition of our mineral veins shall be made by men of energy, and of acquirements and experience, which shall fully qualify them for such a task.

Each class of mineral veins is a study of itself. The study of iron alone will occupy a life time; so also of lead, copper, silver or gold. The *masses* of operators, as we have elsewhere said, cannot go into the intricacies of such studies, but with a very little attention they may be enabled to make an application of general principles to particular localities. It is a proper exposition of these principles and their application to some of our most important veins that we now need. This is a work, the *onus* of which should fall upon the government. Of this matter we may speak more at length at another time. We set out to give an account of the nature and treatment of sulphurets, and will now return again to our subject.

The sulphuret of iron, or iron pyrites, although one of the most common and widely diffused minerals on the globe, is nevertheless one of the least understood. Many of the phenomena connected with this mineral are very curious and interesting, notwithstanding the little that is generately known of them. The very combination, even of this mineral, is a matter of doubt. Although it is well known that it consists of sulphur and iron, still the peculiar state in which they are combined, and the condition of their separate ingredients during the period of combination, are matters which have never yet been explained. It has not yet been shown whether these pyrites consist of an aggregate of sulphur and iron, or a chemical compound of the two.

Some veins abound with bright glistening pyrites of a cubical form; some with those of a dull black color; and others still with cellular cavities partially filled with soft and almost impalpable powder, varying from a light to a dark brown, which is the resultant of a natural decomposition of the pyrites, and is called the sulphate of iron. Some of the cavities of the cellular or "honey comb" quartz contain the pure flour of sulphur unmixed with anything save, perhaps a trace of gold. The iron has entirely disappeared, through the unbroken and compact mass of quartz, without leaving even a *stain* to mark its former habitation, or its exit. How it has thus disappeared none have yet told us. That these cavities once contained chrystals of sulphuret of iron there can be no doubt. What mystic power has formed them, filled them with hard and perfect chrystals, and subsequently changed their condition and removed a large portion of their component parts without in the least disturbing the nicely formed and delicate angles, or any portion of the surrounding and refractory silica, has never yet been satisfactorily ascertained. There can be little doubt, however, that galvanism, the great supposed agency of Nature in her wondrous and invisible laboratory, has acted an important part in conducting this curious process.

It has long been known that in many great gold bearing veins, these sulphurets, although occupying but a very small portion of the mass of the ore, (say from three to eight per cent. only) nevertheless contain a large proportion, and in many cases a large majority, of the gold contained in the entire mass. It is furthermore well known that the gold is more readily collected from the quartz itself, than from the sulphurets, and the great discrepency between the assay and the practical yield, is mainly owing to the refractory nature of the sulphurets in yielding up their portion of the gold in the working process. Hence it becomes absolutely necessary that the *sulphurets* should become a subject of careful and continuous study.

Experiments have fully shown that a process suitable to one class of sulphurets will not answer so well for another. This fact was sufficiently proved by the Russian experiments already alluded to, in the following manner, and with the annexed results.

1st. A given quantity of argentiferous pyrites, not containing gold, and in which the actual quantity of silver was determined by assay, was taken and to them were added a given quantity of powder of gold chemically prepared. The mixture was then roasted upon a tile, in a muffle. This experiment was repeated several times, with the following results, viz: 14, 16, 20, 22, 26, 37 and 40 per cent. less gold was obtained than was originally put into the mass!

2d. To demonstrate that the presence of *sulphur* was not the cause of the loss of gold, a given quantity of powder of gold was mixed with an ore of iron, containing the oxide of iron and water and carbonic acid, but in which was neither gold or sulphur. The mixture was roasted as above, and the results showed a loss of from seven to twenty-three per cent. of gold dust.

3d. Experiments with different lots of pyrites mixed with the same sort of iron ore as above, into which given quantities of gold were thrown, showed losses varying from four to twenty-four per cent.

4th. Gold mixed with ordinary volcanic sulphur, and treated precisely as above, lost only *four per cent.*, probably because the powder of gold was so suddenly melted into an agglomerated mass that there was no opportunity for it to pass off in its original form with the vapors of the sulphur.

The unavoidable conclusion from these experiments is, that gold, when mixed with substances susceptible of volatization by the action of heat, volatizes with them, *in proportions commensurate with the peculiar condition of the bases with which it is mixed.* The officer in his Report to the government also states that the more heat employed in the process of roasting, the greater was the loss of gold. It appears from the report to be a very marked fact that the loss varied very materially with the different qualities and conditions of the ore.

There is one circumstance noted by M. Bassingault, who, among others, has repeated these experiments, which, if correct, is of considerable importance. He found that by *the addition of common salt* to the mass during the roasting process, the result showed much less loss than *without that addition!*

IMPORTANT DEVELOPMENTS.

The Ophir company, during the past week, has struck some valuable ore about sixty feet north of the Central Co's line, in a new winze which they are sinking from their lower gallery. The point where this ore has been struck is nearly one hundred feet below the lowest place at which the mine has yet been regularly worked. It is at about the level where their seventh gallery will be commenced. A small quantity of ore only has been taken out, but it is very rich; computed to be worth from $800 to $1,000 per ton. The extent of the deposit of course cannot be known until they commence drifting upon it. We understand it to be the purpose of the Superintendent to run a gallery from this point, along the direction of the lead and through the Mexican mine, to intersect the main shaft which is now being put down at a point about one hundred feet north of the Mexican north line. This drift or gallery will thus be about 340 feet in length.

This strike may be regarded as one of the most important developments recently made in the Comstock lode; as all the developments hitherto made, at any considerable depth on this lead have been anything but promising, considering the extraordinary richness of the ore found near the surface. This strike is highly encouraging to the adjoining "Mexican" and "Central" companies, who are sinking toward the same level.

Something new and important is also reported from the Gould & Curry, the past week. This company is now said to be getting out ore quite different in appearance from anything hitherto found in the Comstock lode. This ore is the color of raw umber and contains streaks of a bright blue mineral, similar to blue carbonate of copper, and is filled with bright scales of native silver. We do not know whether a large amount of this character of ore is likely to be found.

The above developments, added to the generally encouraging appearance of the mines in that region at this time, appear to be creating a renewed confidence in the permanance and ultimate profit of the mining interest generally.

OVER THE MOUNTAINS—The Virginia *Union* says a great many ladies are coming over from California this spring. The *Union* is glad to see them coming —the society of the Territory needs the ameliorating influence of woman.

MINING GOSSIP.

EDITED BY FRANK WARDDELL.

[In this department of the Mining and Scientific Press we propose to give various and brief accounts of mining companies, and shall, under all circumstances, write *plainly* respecting their merits and de-merits; furthermore, we shall bring to light such transactions as may come within our knowledge regarding the "Bulling and Bearing" system and the "underground" actions of both Trustees and Brokers. We are vain enough to suppose, at all events, that we have the "inside track," and shall, without *hesitancy or fear*, give to the public, from time to time, a peep behind the scenes whenever the occasion justifies. If, in doing so, at any time we have fallen in error as to our report, and it can be so proven, nothing will afford us more pleasure than to make the "*amende honorable*" by correcting the same. We shall feel under obligations to those who are interested in stock if they will communicate to us such items as may come under their observations, and which will prove interesting to our readers. This department is open for free discussion to "one and all." Our object is to render justice to every one. Communications, in all cases, must contain the author's name and address to insure publication, which will be kept *strictly confidential*—otherwise no notice will be taken of them.]

A Few Minutes on Montgomery Street.—On Tuesday morning we concluded that a little social stroll and friendly chat among the brokers would prove advantageous to us, in the way of procuring a few items; off we started for Montgomery street, and were not there long before we ascertained there was quite a lively time, and consequently much "hacking and filling" by the brokers, in a stock called the North Potosi. At this moment, in casting our eyes across the street, we discovered a group of some six stock operators, and among them two or three well-known "sharpers" in that branch of business. So over we went, and quietly listened to what was going on. One of the party made the assertion that North Potosi had lost its suit, and the stock would "tumble" in the Board to almost nothing. Another said he "couldn't see it," and, what was more, he was ready to back his opinion by a few twenties, if agreeable. No sooner said than done; up went the money, and the bet closed. Another remarked that it was all a "dodge" to lower the stock, and that no telegraphic despatch had been received; and so the conversation went on, until after the morning session of the Board, when most brokers seemed to be of the opinion that North Potosi was "very sick." We saw many a hard-earned dollar invested in this stock on that eventful morning—yes, we may well use the expression eventful, for it no doubt proved so to many. We know of two parties who were almost ruined, having bought in at high outside rates. We thought to ourselves, when inspecting the market quotations after the Board was out, what must now be the feelings of those unlucky purchasers at high figures? Such are indeed the risks that operators are subject to. Why, then, should we wonder if their countenances do occasionally look care-worn, and their minds seem troubled? It is not at all surprising, and it is only a wonder to us that some of them do not go crazy with so much business and care on their minds.

The Cry is Still They Come.—Still another new Stock Board has come to life, bearing for its name the "City Stock and Exchange Board." Well, well! we were under the impression that this city was rather well supplied with such institutions, but, somehow or other the brokers' opinions (so it seems by their actions,) differ from ours. Very good, gentlemen; "hold your own" if you can. We would like to see this city able to support a dozen Exchanges, and give all of our worthy brokers a chance to get rich.

Quite Laughable.—It is really good sport to witness the actions of some of the "old corner" stock sharpers when trying to effect a sale. Notice how cool and unpretending they play their little game of "clean out" upon those unsophisticated gentlemen from the interior, and, very often on those who live in the city, and deem they are "posted." How one quarter of these "corner ornaments" manage to subsist is a mystery to us.

Judgment.—In the case of R. Meachan *vs.* Virginia Rogres Mining Company, judgment in the sum of two thousand dollars was rendered in favor of plaintiff—the same being made on the consent and approval of the attorney for the defendant.

Real Del Monte.

No very important movements have taken place in this company, during the past week. The Wide West mill has been engaged to do their crushing, while their own mill is under repair. Another shipment of $11,000 has been received here lately. This amount, no doubt, would have been much larger if it had not been for the many difficulties they have had to contend against during the past month. Mr. Brewster, the President, informs us that the mine is in a fine condition, with plenty of good rock, and all they require is time and to be let alone, so they can bring the mine back to its proper position. He further remarked that the stock is the cheapest to invest in, upon the market, at the present ridiculous rates. We have conversed with many heavy holders, who seem very sanguine regarding, the ultimate worth of the stock. We hope for the sake of all interested that their most sanguine hopes may be realized.

New Mining Map.—Mr. R. M. Evans has succeeded in completing a very handsome, accurate and valuable map, on quite an extensive scale, of Gold Hill, American Flat, and the Divide of Virginia. We have examined the map carefully and notice among other advantages it contains, that you can see (owing to the peculiar style of drawing) at a glance, the exact location of each claim. Its correctness is also vouched for by the best authority. There has evidently been much labor and care taken in the drawing of this map, and reflects much credit on Mr. Evans. H. H. Bancroft & Co., are the publishers.

Rather Severe.—At the late meeting of the Real del Monte stockholders, Mr. Gamble furiously and indignantly arose, and with much sarcasm remarked: "Yes, gentlemen, there is no doubt in your minds that I was very wrong in disposing of *my stock* at a profit; but I suppose you do not consider me wrong when *I loan you money* on it, and take the risk on the stock for its payment!" It seems to us that Mr. Gamble's head was rather sound and clear on that little financial point.

Stock Exchange Election.—At the election held by the Board of Brokers during the week, the following were the successful candidates:—Messrs. W. H. Culver, M. G. Elmore, J. C. McCreery, A. H. Murdock, Daniel Norcross, W. E. Moody, A. W. Snyder, G. W. Dent, R. O. Sturdivant, G. Johnson, Joseph Clough, L. A. Hinman. These gentlemen are to act in the capacity of Directors. Mr. G. W. Dent was afterwards chosen President and Mr. M. G. Elmore, Secretary. The fee of membership is now raised to $100, and $7.50 monthly dues.

Rush Continues.—The excitement for the Boise Mines continues as great as ever, and the cry of "Ho! for Boise," seems to be the order of the day. We wish these adventurers every possible luck; but do think that many of them will e'er long change their cry to "Ho! for Home." You need not laugh at our predictions, ye honest miners. It would not be the first case, in just such wild excitements, with the same glowing accounts and flattering prospects, you have cried "there is no place like home."

Uncle Sam G. and S. M. Co.—They are taking out still richer rock from this mine, and the latest accounts are of the most encouraging character; that is, as far as the wealth and condition of the mine is concerned; what their prospects are in matters of legality (for the company have many suits on hand) we are not able to say.

Not Correct.—The statement which has been published that Mr. Evans, late of the Wide West mine, has been appointed Superintendent of the Del Monte, according to the Aurora *Times*, is not altogether correct. Mr. Evans' position is to look after the mine, and superintend the work therein. Dr. Mitchell is the Superintendent of the affairs of the company.

North American.—We stated some time since that this stock was rating entirely too high in the market as there was nothing to warrant the prices it was then commanding. A great many brokers laughed at us, saying it was all "hosh." We then predicted that it was impossible for it to hold much longer at such preposterous rates. Our ideas (so it seems) have become true. The stock has "weakened" and lowered considerably and, what is more, will go much lower than even our present closing market quotations, *if they would allow* it to sell on its legitimate merit and intrinsic worth. Of course we would not be surprised to see it "bolstered" up again. A movement of that character is very probable, when you consider who are the high figure purchasers. We hear that another delightful assessment of only $25 per share has been levied, no doubt much to the pleasure of the stockholders who have, poor souls, hardly breathed free from their previous assessment. Rumor says that the company want this assessment to fight the "Uncle Sam" folks with. That's a consolation, surely.

Coal Creek Coal Mining Company.—This company held its regular annual meeting at its office in this city, on the 15th instant, and the following officers were elected for the ensuing year:—A. P. McCarty, President; P. T. Archambou, Vice President; D. S. Cutter, Secretary and Treasurer; J. D. Binns, Geo. H. Baker, and P. T. Archambou, Trustees. An assesment of 12½ cents was levied upon the shares of capital stock, payable to the secretary at his office. The secretary was authorized to enter into a contract with Geo. H. Baker, lithographer, to issue the stock immediately and all necessary arrangements were made for the immediate development of the mine. A drift has been run into the mountain on this claim some thirty feet which has developed one of the most promising beds of coal ever discovered upon the Pacific Coast. It consists of a very superior quality of cannel coal, equal to the best imported article.

Santa Catalina Island.—By the "Lizzie Adams," which arrived here on the 15th inst., from Santa Catalina Island, the consignees received about 50 tons of ore, averaging in value from $80 to $150 per ton. This ore is from the Munster lead. One hundred tons more of the same are now awaiting means of shipment to this port. The Catalina Consolidated Company have also 50 tons in transitu and other companies are also actively engaged in preparing for shipment in large quantities.

In our next issue we shall be enabled to give a detailed account of the extraordinary resources of this Island from most reliable sources.

Suit of the Grosch Co.—This important case between the Grosch Company and Ophir, was called up on the 14th inst., in the Twelfth District Court, when Mr. Comstock, one of the principal defendants in the suit, was held in default for his non-appearance. We have since been informed that Mr. Comstock is not in the city, having left here some time ago for the Boise Mines. The general impression is that he has failed to receive a notice stating the time set for the suit, and thus the cause for his not appearing.

California Patent Brick Making Co.—This company filed their articles of incorporation on the 17th inst., with the County Clerk. The object is to conduct the business of brick making in different sections of California. The capital is one hundred thousand dollars, divided into one hundred shares of one thousand dollars each. The trustees are Thos. W. Milford, P. Hudson, T. P. Church, C. B. Denio, G. B. Hudson.

In Luck.—It is stated that a certain broker in this city, who is a member of the First Stock and Exchange Board, made over ten thousand dollars in clear cash in one morning's transaction, on North Potosi stock. This is what we consider doing the thing handsomely.

WASHOE MINING ITEMS.

According to current reports in the Washoe papers, mining operations appear to be exceedingly active there at the present time; and with more encouraging prospects of abundant success than have ever been met with since the first discovery of silver in that region.

The important and extensive improvements now in progress upon the Ophir are elsewhere in our columns more particularly spoken of, as well as late and important developments in both this mine and the Gould & Curry. The Mexican Company are progressing finely with their shaft, which is to prospect the lead below their deepest level. They have already met with a large quantity of water.

The Latrobe Tunnel, which is the longest in the Territory, has recently struck water at a distance of 2,800 feet from its mouth. The consequence is that the Ophir and several other mines in the city are being effectually drained. The advantages of this system of drainage are almost incalculable to the mines affected by it. Heretofore the Ophir Company have found it almost impossible to drift west below their fifth level, on account of the great influx of water from that direction; now, however, the water appears to be fast sinking, and in a short time that part of the hill will no doubt be drained to a level with the tunnel.

The Savage and Potosi mining case is still before Judge North, in Chambers. Considerable interest is felt in the result of this important suit.

The Crown Point Company have now got their shaft down 250 feet, which is as deep as they intend to sink it at present. They will soon commence to run a drift from the shaft to the ledge. In a few weeks this will be added to the list of productive mines in Gold Hill District.

The Midas Consolidated Company is located a short distance southeast of the Midas works. They have a shaft down 185 feet, from which a drift has been run 100 feet to their ledge, which they found to be some 25 feet thick. After piercing the ledge they drifted upon it about 80 feet, and are still continuing the work.

The Irving Company, located in Six-mile Cañon, have recently had a large amount of rock crushed at Bassett's mill. According to the *Enterprise*, they obtained from average rock a yield of $33.44 per ton. From a place a little south of the main shaft, and at a depth greater than that from which the principal part of the rock was taken, ore was extracted which assayed $150 per ton. This is doing very well. The company are working night and day. The managers of the mine are sanguine that it will be a dividend-paying one by next July. This will be a pleasing fact, especially to one of the chief owners therein, who assures us that he has expended $19,000 for its development.

The Peerless Gold and Silver Mining Company have their shaft down to a depth of about 190 feet. At this distance the claim shows a well-defined ledge, about six feet in width. A recent mill test has been obtained, of some of the rock taken from the ledge, and the result is very flattering to the locators. The ledge was reached by means of an incline tunnel, and the rock is hoisted out by a horse power "whim." Arrangements have been perfected by the company with a San Francisco capitalist for the erection of a mill.

The Potosi mine continues to send to the mills a large amount of excellent ores.

The Gilmore tunnel, on American Flat, is now in to the distance of 307 feet.

The Mariposa mill, located in Cedar Ravine, and which has been idle for nearly a year, because the water by which it has been running was leased by the Water Company, has again resumed operations. It has twelve stamps and a rotary battery.

Work on the Bullion is progressing satisfactorily, as also on the Crœsus and most of the other claims in that vicinity.

Considerable activity is being displayed by the miners of Flowery District in the development of the various leads in that section. More work is at present being done than at any time since the spring of '60. A good many new locations are also being made.

AMERICAN FLAT.

American Flat still continues to attract a large share of attention. The Andes is a claim located on the hills west of American Flat, joining the Baltimore American on the north and the Victor Hugo on the south. The Johnson Company, who made the original location, to avoid litigation with the Andes, entered into a consolidation with the latter company, under the present name. It contains 800 feet, and like most of the mines in that vicinity, its development was commenced but a short time ago. The controlling interest is in the hands of men of capital, who seem determined to push forward the work with vigor. A shaft has been sunk to a depth of 30 feet, and some good indications discovered. The incessant labor spent upon the claims in this vicinity, and the money expended, shows the confidence owners entertain, that rich ledges will soon be struck, and their strong hope, that they may be the fortunate discoverers.

Our correspondent "Alpha," under date of March 12, writes us that "Prospecting is being carried on to a great extent on the American Flat, and new discoveries are being made daily. To name the many claims on which shafts are now being sunk, or into which tunnels are being run, would be almost an impossibility. I visited the Baltimore American tunnel a few days since. This company are at present in some 400 feet, and are driving west through a very hard porphyritic rock. The Superintendent, Mr. McElroy, informed me that they have been working three shifts, of eight hours each, and only advanced some twenty feet in a month! The very best of steel drills are often broken off, as though they were made of brittle wood. At a distance of 1,000 feet from the mouth of the tunnel, they passed through a sort of a bastard vein formation, bounded on the east and west by a well-defined wall, but the quartz does not carry the slightest indication of any mineral. They have not yet reached what is claimed the main ledge, and it yet remains to be seen whether this claim will prove good or not.

"Perhaps it would not be out of the way here to state that if the ledge that the Uncle Sam Company are on runs anywhere near the Baltimore American claim, it makes an angle of at least forty-five degrees; but it is claimed that there are three different and distinct ledges. The town of American City has already some 125 houses, and if it makes the rapid strides the next six months that it has during the previous two, it will be a formidable rival to the surrounding towns. As fast as I have a chance to visit the claims in this locality, I will keep you posted in their progress."

The Wind River Mines—More Discoveries.—Accounts are constantly reaching us of new mineral discoveries on the outskirts of those last previously announced. Having connected our discoveries on the south with the ancient workings of Mexico, and having pushed out eastward until we have reached the eastern base of the Rocky Mountains, where the mineral-bearing strata dips beneath the great Mississippi basin, our mines have nowhere else to go but northward along the great chain, which forms the backbone of the continent. It is along that track that we are now pushing on to form a connecting link with the gold fields of British Columbia. The discoveries in Idaho Territory and along the southern waters of the Snake river, in the Boise region, are now well known. Our hardy pioneers are still pushing on, and the last heard from them they were prospecting, and successfully too, the far-off Wind River mountains, upon the north waters of Snake river. A late number of the Portland (Oregon) *Times* states that Mr. F. J. Lawren had recently arrived in that city, and "reports that a valuable mineral district has been discovered about 300 miles above Boise, on the head-waters of Snake river. They are termed the Wind River mines, and they are most likely located in the spurs of the mountains bearing that name. A great many have gone from Boise and that vicinity, and have written back that the diggings are far richer than those of Boise ever were." The Walla Walla *Statesman* speaks of a considerable excitement about these new mines. Hundreds were leaving Boise for them.

Progress of Chemical Discovery.—Some seven or eight years since Dr. Hoffman exhibited before the British Royal Institution a bright glistening mass, which he stated was a new metal, and which he named "ammonium"—the metalic base of ammonia. This discovery was received at the time as a highly interesting fact, insomuch as it strengthened the views then and still entertained, respecting the constituents of all created things—the very atmosphere we breath not even excepted—viz, that all are metalic, and that the discoveries in chemical science will yet enable man to resolve all things to their metalic bases.

Mining Organizations.—The Colorado *Mining Journal* throws out the following very pertinent and suggestive ideas to its readers, which are most particularly applicable to this latitude also:—"A company with a working capital of $50,000, would soon be declaring good dividends, and the stock would inevitably advance far above par, and be eagerly sought. But when, with only the same basis on which to work, the capital stock is swelled to a million, or millions, no management in the world can prevent it from depreciating and finally becoming worthless. Of course, by the sale of the stock in the market, the getters-up of these schemes line their pockets, and that is the intention. Opening the mines of the country is entirely a secondary interest with them. Selling stock is their business. And the fleeced public, sooner or later, finds this to be as worthless as the paper on which they are printed. These operators know perfectly well that the mines cannot be made to pay dividends on such an enormous and chiefly fictitious capital, and they cease to look to them for it. They use the real merit of the country for their own purposes and their operations."

A Valuable Invention.—A gentleman named John Nester, according to the Virginia *Union*, is at present engaged by the Gould & Curry company in lining portions of their mill and mining works with metallic India-rubber weather strips. These strips vary from three-eighths to one-and-a-half inches in width, and are intended to render sliding doors and shutters air-tight, open or shut. The tops, bottoms, sides and centres of doors, windows and sky-lights of any description, when lined with these strips, are made impermeable to wind, rain, snow or dust. In many houses in this climate it is almost impossible to keep out the wind in winter, or the dust in summer, and if this invention has the virtues claimed for it, it will become invaluable. The manufactory is in New York City, from which an immense quantity of the article is shipped annually.

The Aurora *Times*, of March 7th, says:—"The Antelope's new mill is now running, reducing excellent ore. The Durand will soon commence, and we notice several companies are engaging the custom mills, and will keep them underway, all of which will add to our shipments of bullion. We are also pleased to learn that notwithstanding the dull times, a great amount of work is being done. The idlers go away, but the working men keep to their task, and it is evident they will never surrender."

Wealth of the United States.—A statistician computes the augmentation of the value of our real and personal property from 1791 to 1860, to be the almost fabulous sum of sixteen billions of dollars. Were wealth the only indication of national greatness and progress, the United States, in this respect, would scarcely have a rival; but the moral and intellectual status of a people is the only true criterion in judging of their condition, and in this respect we certainly compare favorably with any other nation.

Ulcerating Teeth.—The ulcerating process seldom commences unless the nerves have been destroyed. A tooth, being thus deprived of its vitality, becomes a foreign body, and frequently causes severe suffering. People are often prone to retain their loosened teeth for a long time, which is a great mistake. They should be extracted without delay. Those loosened teeth, upon being removed from the mouth, often emit a disgusting odor, showing the impropriety of retaining them a single day. Being loose, they cause but little pain in the extraction.

Washing Woolens.—If you do not wish to have white woolens shrink when washed, make a good suds of hard soap, and wash the flannels in it. Do not rub woolens like cotton cloth, but squeeze them between the hands or slightly pound them with a clothes pounder. The suds used should be strong, and the woolens should be rinsed in warm water. By rubbing flannels on a board and rinsing them in cold water, they soon become very thick.

Mineral salt is now brought in ballast from Russia; it sells for $20 a ton. It is mined in blocks that to the eye appear to be quartz. A thirty-pound block of it, placed in a box in a field, will supply a herd of cows for some weeks. It is as hard as stone. Ordinary salt would dissolve in one-fourth the time. No other country yet known yeilds this peculiar product. It is quarried precisely as we quarry marble.

Differences in Value of Bullion.—According to the Aurora *Times*, the bullion produced in Esmeralda is worth from four to six dollars to the ounce, while that from Virginia City assays but two dollars.

Mechanical Department.

IMPORTANT RAILWAY EXPERIMENTS.

Mr. Fell, an English mechanic, has recently invented and constructed a railroad locomotive, especially designed for ascending steep gradients. The principle adopted in the construction of this engine is that of obtaining increased adhesion without a corresponding increase of weight. This is effected by means of a central rail, and two horizontal wheels beneath the engine, so placed that in ascending a steep gradient the two horizontal wheels are made to press or closely hug this central rail, thereby producing the necessary friction required for making the ascent and descent with facility and safety. On level sections of the road, the ordinary wheels of the engine, only, are employed. A short section of road was constructed near Whately Bridge, London, having a gradient of 1 foot in 12, with a curve of 132 feet radius. The engine easily ascended the grade, dragging after it four heavily laden carriages, weighing about 26 tons, or about the average weight of 100 passengers. The speed attained was from 7½ to 12 miles an hour. So secure was the grip of the horizontal wheels, with the addition of the brakes attached to the several carriages, that they were stopped midway on the incline. The traction power of the engine, weighing 16 tons, was said, in consequence of its additional adhesive power, to be equal to any ordinary engine of 32 tons.

The experiments were made in December last. It is proposed to put this invention to a practical test, by connecting immediately, with a surface track, the French and Italian railway system now separated by Mont Cenis, where the great Mont Cenis tunnel is being cut, with the view of making the connection with an ordinary grade through the tunnel. The maximum grade for a surface road over Mont Cenis has been found not to exceed 1 foot in 12. Mr. Fell has proven that he can overcome this ascent, and a company of capitalists has been formed to make the connection. So we may expect to see France and Italy connected by rail, within two or three years, instead of waiting twelve or fifteen, as has heretofore been supposed necessary, for the completion of the great railway tunnel now in progress. Will the wonders of mechanical triumph never cease?

It is proposed to cover the more exposed portions of this road with a roof, to protect it from the heavy snows of these mountain regions, which rise 7,000 feet above the sea level. Portions of the present carriage road over these mountains are even now thus covered. It will be recollected by many of our readers that Mr. Joseph Mosheimer, formerly of this city, but now a resident of London, proposed, some years ago, to protect the proposed railroad over the Sierra Nevada in the same manner; but his proposition was received with considerable ridicule. The plan appears, however, to work, and, no doubt, to pay well, in the Alps; why not in the Sierra?

THE USE OF CAST STEEL.

The employment of cast steel seems to be rapidly on the increase, and the assertion is ventured that but a few years will elapse ere the principal forgings of our mercantile and war steamers will be formed of it. Its economy for employment in railroad use has been thoroughly demonstrated; and for steam boilers, the experiments noticed in our last issue appear to be most conclusive and complete. Cast steel is perfectly homogeneous, and when it is partially decarbonized, so as to admit of its being bent cold, it can be readily shaped into the most difficult forgings. In that condition its tensile strength is more than double that of the best iron usually employed for such purposes. Moreover, there is not only an increase of strength gained, but a decrease of weight is also secured. Experiments go to show that the saving in the use of cast steel for rails is very large. The best iron rails laminate and split after a very short wear, especially if subjected to heavy loads. Their tendency to this description of wear is fully illustrated by the rails on the Market street railroad, in this city, say especially between Kearny and Battery streets. In many cases, on sections of roads where they are subjected to a heavy and constant service, the rails have been worn out in two years' service.

Cast steel does not laminate or split, and the experience on the English roads, where it has been used for several years, is, that it will out-wear iron in the ratio of six or seven to one, when it is rightly adapted to the purpose, while its first cost is but double that of the best iron. The English roads are very generally adopting cast steel for both rail and tyre.

Communication.

Mr. Editor:—As I am one of that unfortunate class of individuals who don't know everything, and yet have a great desire to know something, I feel quite elated at the prospect of adding somewhat to my scanty store by enquiring of your Sacramento correspondent, "E. A. M." There are doubtless many who could answer my question if they would; but people, generally, are either quite too much occupied with their own business to find time to look after the affairs of others, or they are too modest to push themselves forward as public instructors. Hence my joy at finding one who will doubtless take pleasure in imparting valuable information for the benefit of others.

In order to save your correspondent unnecessary trouble, I will endeavor to confine my enquiries to matters strictly practical, and avoid pushing them into scientific theories. The latter class of information I can always obtain by virtue of being a subscriber to the Mechanics' Institute of this city. Although the library of this Association comprises some 3,000 volumes, still it does not contain *all* the knowledge in the world, hence it is that I shall take the liberty to place myself under obligation to "E. A. M.," aforesaid, by soliciting information of him upon subjects as follows:—

Take one of the engines and boilers, with the necessary adjuncts, now in common use in Washoe, and beginning at the furnace—allow me here to remark, that for the sake of clearness and to avoid intricate calculations, I shall make no use of fractions, or even exact quantities, as found by careful experiments; using figures and quantities merely to illustrate principles,—the burning of one pound of coal requires 200 cubic feet of air, the temperature of which before entering the furnace is, say zero; on leaving the chimney it is 1,000°, or in other words it contains as much caloric as is contained in an equal weight of water, when heated to the boiling point. Now I would ask—Is it beyond the ingenuity of man to contrive means by which a portion of that heat may be utilized, instead of allowing its free escape, as at present?

Again, as chemically considered, but little over one-half that amount of air is required for the combustion of the given amount of coal, is it beyond the ingenuity of man to improve on the best furnaces now in use, so as to reduce the amount of surplus air now required to pass through them, with no other effect than that of carrying off and wasting heat at the rate above indicated. If such improvement is possible, would it have the effect of saving fuel?

If the temperature of the feed water of a boiler could, by any contrivance, be raised to the boiling point before entering the boiler over the furnace, by heat derived from the hot air escaping from the smoke stack or from waste steam, would not such heating effect the saving of so much heat from the furnace, which, in turn, would effect a saving of coal?

And again, as there appears to be a vast difference in the conducting power of different materials, in the readiness with which they absorb heat from one body, conduct it through themselves and transmit it to another; and as the conducting power of most substances is found to depend greatly on their formation or shape of body, their color and their structure of fiber, is it not just barely possible that something may be found more suitable for boilers and flues than rolled iron? Perhaps I ought not to have asked this question, as in the same number of the Press in which the communication of "E. A. M." appears, he will find the record of an elaborate series of experiments on the economy of steel over soft rolled iron as a material for boilers. From these experiments, derived from high mechanical authority, your correspondent will find a gain, in the generating, equal to *twenty-five* per cent.

Your correspondent informs us that motion is heat, and that heat is motion; or in other words, as I understand him, the two are naturally convertible, the one into the other, being in fact only different manifestations of the same thing; and that it is unlimited in extent and quantity, pervading and being contained in all things, and that it is excited to activity in one or the other shape by light or electricity and magnetism.

Now the manner or way to convert motion into power and power into motion, as circumstances may require, is pretty well understood by machinists; does it not follow, by the same course of reasoning, that power is only another manifestation of the same thing, and is convertible into either heat or motion, and therefore *is* heat or motion? This being acknowledged, and light and electricity being the most abundant elements in nature, what is to prevent an ingenious inventor, by following out the ideas of "E. A. M.," to produce an engine which shall be driven by sunshine, or even—moonshine! That last word has given me an idea, but as I have strong prejudices against moonshine, or anything else that may reflect on a benighted neighbor, I will drop the subject, hoping that it may be fully illuminated by the strong sunshine rays of your Sacramento correspondent. Yours, An Enquirer.

Extensive Iron Works.—One of the most extensive iron work establishment in the world is that of Cammell & Co., of the Cyclops Works, Sheffield, England. In 1844 their works covered a little over an acre of ground; now more than 32 acres are covered by their various works, employing from 2,000 to 3,000 workmen. No less than 345,000 pounds (about 167 tons) of railway springs have been produced in one week at this establishment; whilst ordnance of cast steel of the largest caliber, cast steel shot and shell, cast steel rails, bars and forgings, of every description, and cast steel files, all fall within the scope of their everyday employment. They have eight large rolling mills, by which they are enabled to produce armor-plates of the most approved quality, *up to forty feet in length and twelve inches in thickness;* and whilst they formerly considered an ingot of cast steel weighing 600 or 700 weight a heavy job, they are now daily sending out ingots of as many tons, and are even preparing to make ingots of forty tons weight. This firm has succeeded in producing armor-plates superior to any other establishment, and which upon recent trial have successfully withstood the severest tests demanded by the Admiralty. English armor-plates are arranged into eight orders of merit, of which those from the Cyclops Works are marked "A 1;" the lowest being "B 4." This establishment is more particularly known in the United States, among railroad men, for their manufacture of springs of a superior quality.

Immense Casting.—The largest casting ever made in Baltimore was poured at the Vulcan Works of Halzehurst & Co., on Saturday, February 6th. It is a condenser for one of the large steam frigates now in process of construction. It weighs 26 tuns or 52,000 pounds. A large pit was required, into which all the moulds were made, requiring a preparation of nearly three months. The whole was most successfully done, and was witnessed by a considerable number of persons. Several days will be required to cool it off sufficiently for removal.

Glass bushes or steps are being used for bearings for shafts, to some extent, in England; the glass being protected at the ends by metal flanges attached to the pedestals with papier maché or India-rubber interposed.

The incline of the Bohore Ghant range, recently completed, is one of the most remarkable achievements of railway engineering in East India. The incline is nearly 16 miles long, with a total rise of 1831 feet, the two steepest gradients being 1 in 37 feet, and 1 in 40. It includes 25 tunnels and 8 viaducts, and has occupied seven years in construction.

Patent Department.

ANOTHER IMPORTANT CALIFORNIA INVENTION.—Mr. George F. Russell, of this city, a practical printer, and who has long made machine presses a speciality, has invented, and constructed the model, of a printing press, which bids fair to entirely supercede the "Hoe press," or any other similar invention which has been introduced on either side of the Atlantic. The preliminary papers for securing a patent for the same, both in this country and in Europe, have been prepared at the MINING AND SCIENTIFIC PRESS PATENT AGENCY, and have been taken East, with the model, by Mr. Russell himself, who left on Monday last in the America. The invention has been submitted to quite a number of practical printers in this city, and to one practical machine press builder, all of whom unite in the opinion that the "Automatic Printing Press," as it is to be called, must be a complete success. It is perfectly simple in its operation, and in feeding from a continuous sheet, upon a horizontal cylinder, the inventor has been able to do away with all irregular motions, nippers, etc., which greatly retard the speed and complicate the movements of all other machine presses in use. Every motion connected with this press is circular and continuous. It cuts, folds and delivers the sheets as fast as printed, all by continuous motions. So simple is its construction that an experienced machinist and press builder has expressed the opinion that it can be built for about one-third the cost of a Hoe press of the same size, while it will be able to turn off twice or three times the amount of work, and with much less danger of breakage or wear and tear. Its simplicity is at once apparent, and forms its most striking feature; and it appears almost self-evident that it cannot fail to accomplish in full the truly wonderful results claimed for it. Should the hopes and confident anticipations of its inventor and his friends be realized, our Golden State will have just reason to take pride in claiming it as a California invention.

PRUNING HOOK—*A California Invention.*—Mr. Thos. W. Paine, of Grass Valley, Nevada county, has made application through the MINING AND SCIENTIFIC PRESS Patent Agency, for a patent for an improved pruning hook, which will be found, on examination to be a great improvement over anything of the kind heretofore used. This improvement consists in drawing a hooked knife down and across the blade of a stationary chisel. The chisel is placed on the end of a pole of any desired length, from three or four to ten or 15 feet. The hooked knife is placed directly over it, and after taking hold of the limb is drawn down upon the chisel blade by a rod attached to the pole and easily worked with a convenient lever. A limb half an inch or more in diameter may thus be cut off ten or fifteen feet above the ground, quite as smoothly as it can be done by any of the ordinary pruning knives when used under the most convenient circumstances. This invention must prove of great convenience to nurserymen, and cannot fail to come into general use.

A NEW GOLD SEPARATOR.—Some weeks since we made an extended notice of Hunter's Grain Separator, a very superior machine for that purpose. Since that time Mr. Hunter has been experimenting to produce a machine for separating gold from the dry sand, in localities where water is not attainable. By certain additions and modifications to his grain separator, he has succeeded in producing a machine which accomplishes the desired work to apparent perfection. Such a machine must be of much value in many localities. To all appearances it is capable of doing quite as much work as an ordinary "long tom," and for aught that we can see, it may do it quite as effectually.

A FRENCHMAN has invented a way of pulverizing slate, and then mixing it with some substance by which it is converted into a very hard and durable material for building purposes.

The Mining and Scientific Press Patent Agency.

OFFICE, 57, GOVERNMENT HOUSE, SAN FRANCISCO.

Information About Obtaining Patents.

The Patent Law Amendment Act, of March 4th 1861, and March 3d 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent? A positive answer to this question is only to be had by presenting a formal application for patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the MINING AND SCIENTIFIC PRESS. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Preliminary Examinations.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search, made at the U. S. Patent Office, Washington, through the medium of our associate in that city, to ascertain whether among all the patents and models there stored, any invention can be found which is similar in character to that of the applicant. On the completion of this special search we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollars. This search, though it involves the expense just named, will usually prove satisfactory. If the same device has been before patented, the time and expense of constructing models, preparing documents, etc., will in most cases be saved; if the invention has been in part patented, the applicant will be enable to modify his claims and expectations accordingly. Many other obvious advantages attending the Preliminary Examination; although the strictest search does not always enable the applicant to know positively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publication; or some other person has been previously rejected on an analagous device; or some other invention for a similar purpose, but partially resembles the applicant's in its construction; or the Government makes an unjust or uncommon decision. Against none of these contingencies does the Preliminary Examination provide; it will, however, generally inform the applicant whether an improvement similar to his and used for the same purpose has ever been patented or not in this country.

Persons desiring the Preliminary examination are requested to remit the fee ($10), and furnish us with a sketch and description of the invention.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian, Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of governments that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues.—If the application is rejected we cause a thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have access to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client. For this service we make no charge. If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a nature. Our terms for such cases are very moderate.

Models, Remittances, etc.

The laws requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: DEWEY & Co., Mining and Scientific Press, rooms 56 and 57, Government House, corner of Sansome and Washington Streets, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail.—The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due, and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued, the applicant will be notified to remit the last installment of the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Return of Models.

Under the new law, if the applicants case has been rejected he is entitled to withdraw his model from the Patent Office.

This law applies to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expense

Application for Patents, Designs, Trade-Marks, Labells, etc.

Under the new law patents may be taken out for any new form of any article, also for tools, patterns, castings, machine-frames, stove-plates, borders, fringes, all new designs for printing, weaving or stamping upon silks, calicoes, carpets, oil-cloth, prints, paper-hangings, and other articles. Trade-marks, labels, envelopes, boxes and bottles for goods, may also be patented; likewise all works of art, including prints, paintings, busts, statues, bas-relief, or compositions in alto, or basso relievo, new dies, impressions, ornaments to be placed upon any article of manufacture, architectural work, etc.

Our facilities for the prompt preparation and securing of patents are of the most extensive character and our charges are very moderate.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the tariff of fees established by law;

On every application for a design, for 3 years and six months...	$10
On every application for a design, for seven years.....	15
On every application for a design, for fourteen years.....	30
On every caveat.....	10
On every application for a patent.....	15
On issuing each original patent.....	20
On filing a disclaimer.....	10
On every application for a re-issue.....	30
On every additional patent granted on a re-issue.....	30
On every application for an extension.....	50
On the grant of every extension.....	50
On appeal to the Commissioner from Examiners-in-chief.....	20
On every appeal to the Judges of Circuit Court, D. C.....	25

Infringements.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunction from the Court, to an arrest of or prohibition from the employment of his machinery, shop, works, factory and men in production of the article.

In addition to injunction the infringer is liable to be mulched in treble the amount of damages awarded by the jury. The maker, the workman, the seller, and the purchaser, if a user, are all liable either collectively or individually.

Having access to all the patents, models, public records, drawings and other documents pertaining to the Patent Office, we are prepared to make examinations and give opinions upon all infringement questions, advise as to the scope and ground covered by patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Appeals.

In rejected and other cases, the new law provides for an appeal from the Examiner-in-chief to the Commissioner in person, on the payment of a fee of twenty dollars. A further appeal may be taken from the decision of the Commissioner to the U. S. Court, of the District of Columbia. These appeals are heard by any of the Judges before whom the applicant elects to bring the case. No Jury. All the papers, models, etc., are sent by the Commissioner to the Judge, who then reviews the case, and either sustains or reverses the Commissioner's decision.

The party taking the appeal pays an additional fee of twenty-five dollars. The Judge appoints a day of hearing. The applicant can appear in person or by counsel to state his case and file a written argument. Five days are allowed the opponent to put in an answer, and a similar period to the appellant for a closing reply.

Many important cases are brought before the Judges on appeal and the decisions of the Commissioner are not unfrequently reversed.

We have had successful experience in conducting these appeals, and our services are rendered on moderate terms.

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Mining and Scientific Press Office, Government House, corner Sansome and Washington streets, San Francisco.

Mining and Scientific Press.

W. H. EWER,.....SENIOR EDITOR.

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San Francisco:

Saturday Morning, March 19, 1864.

THE KILLING OF REV. MR. SMEATHMAN.—The daily papers have already given the particulars of the killing of Rev. H. O. G. Smeathman, by the Indians, some sixty miles north of Surprise Valley, in Nevada Territory. Mr. S. was one of the pioneers of Reese River, and was much respected wherever known. The people of Reese River appear to be much exasperated at this unprovoked and wanton act of the Indians, and the indications are that dire vengeance will be meeted out to the red-skinned villains. We have enjoyed the pleasure of Mr. Smeathman's acquaintance for some four or five years, and knew him to be one of the kindest and gentlest of men, and one who would have suffered almost anything rather than have wronged any human being. The testimony of his two companions who escaped, fully attest this fact, and they moreover speak most highly of his brave, noble and christian bearing in the hour of danger and of death. Mr. S. leaves a widow and two step-daughters who reside in this city—one now temporarily absent in Washoe. He visited his family some six months since, at which time we had the pleasure of several interviews with him and received his promise as an "occasional contributor" to the *Mining and Scientific Press*. He has since fulfilled that promise, his latest contribution being published over his proper initials in the number of February 27, giving an interesting account of "Surprise Valley," near where he met his untimely end. He has done more, perhaps, than any other one man, through his contributions to the *Press*, to bring into notice and to convey to the public a correct idea of the topography and resources of the interesting region which he had adopted for his home. He was a man of close observation and a good writer. We were in daily expectation of hearing from him again, when the announcement came that he had been thus ruthlessly struck down. Friends had gone out to obtain his body and give it a christian burial. Green wave the grass o'er his desert grave.

BULLION FROM WASHOE.—The amount of bullion shipped by Wells, Fargo & Co., from Virginia City for the week ending March 12th was $194,802.

MINING SHARE MARKET.

The Mining Share Market has manifested very little animation during the past week, and we have no feature of special interest to notice. The sales of the week amount to $1,567,009,00.

Ophir has improved somewhat during the past week, closing at $1,675, buyer 30 days. Recent accounts from this mine are of a very encouraging character.

Gould & Curry still remains inactive. It closed at $4,665. Savage is but little sought after. It has found buyers at $2,525.

Yellow Jacket may be quoted at $1,100; Uncle Sam $780; Imperial $157½ buyer 30 days; Crown Point, segregated, $750. Chollar has still farther declined with small sales. Opening at $325 on Saturday, it commenced the present week at $322½ from which figure it gradually declined to $300.

Lady Bryan has constituted the chief feature of the week. The mine has again changed hands—5,690 shares having been sold the past week, (total number of shares 5,000.) Opening at about the closing figures of the previous week—$52, it found sellers at yesterday morning's Board at $39, but rallied in the evening, and closed at $45 cash, $49 buyer 30. Efforts are being made to reduce the number of shares in this stock. An adjourned meeting for that purpose will be held on the fourth of April.

Daney shares opened at $155 @ 170, but gradually declined with large sales, to $105 @ 106 at yesterday's Board. This important decline is mainly attributable to the fact that the mine has been flooded with water, which it will require some weeks to remove.

North Potosi shares, owing to an unfounded rumor that an adverse decision had been rendered in its suit with the Savage, suddenly tumbled from $110 on Monday to $35 on Tuesday; it subsequently recovered somewhat and closed yesterday, at $46. It is understood that the decision in this case will be rendered on the 26th instant.

North American has been very active, but at generally declining rates; the decline has been caused by the reported levying of another assessment of $25 per share.

Harmon has become comparatively quiet at from $35 @ 37; Moss is quoted at $35; Lafayette from $13 @ 15; Uncle Sam (F. D.,) $5; Central America $5.

Nevada (J. G.) has declined somewhat from its late advance, and may now be quoted at $215; Sierra Nevada has been heard from at $75; Best & Belcher a $750.

Real del Monte has been less active, opening the week at $54@58, it gradually declined to $45, at last evening's board. No special movements in the affairs of this company have been noticed during the past week.

Antelope still maintains its regular standing at $225; Wide West found a buyer yesterday at $22½; an important improvement is reported at this mine; Silver Hill may be quoted at $10.

De Soto, Humboldt, is enquired after at from $45 @52. Since this company has struck the Sheba lode, much confidence appears to be felt that it will soon be developed into a valuable mine.

Cicero, Reese River, has found buyers the past week at from 50@55.

Of copper stocks we may quote the Napoleon firm at $65, holders at $70@80. Table Mountain, copper, $13; Diamond $9.

DANEY G. & S. M. CO.—This stock has fallen considerably in the market, owing to the fact that their shaft is full of water, and likely to continue so for some weeks to come.

SILVER BULLION.—During the week ending March 6th, Wells, Fargo & Co. shipped from Virginia City silver bullion valued at $245,788.

WHAT SCIENCE SAVES IN MINING.—It is well established that but a fraction of gold can be saved by the fixtures and arrangements in the crushing mills hitherto used at the mines, a large portion being swept off and lost in the tailings (chaff or refuse); this portion is found by assay at the works of the Colorado Gold Mining Company to have been on an average sixty-five per cent., and it is now a well established fact, verified by successful experiments, that when these "tailings" are worked over in the Desulphurizing and Amalgamating apparatus (machines and fixtures recently invented and which have just been put in operation by the company above mentioned) nearly all the gold contained in the ore can be saved. Of course the mills equipped with this apparatus will save double the amount they have previously done.—*Boston Com. Bulletin.*

The above item which is just now going the rounds of both the California and Atlantic press, may be, and doubtless is, true of the Colorado, mines; but not of the mines of California. The principal portion of the gold in the Colorado mines is found in a sulphuret of iron, or iron pyrites, which sulphuret constitutes, in many mines, nearly the entire body of the vein, and in most of them, if we are rightly informed, a very large proportion. In our California mines the sulphuret of iron constitutes but an exceedingly small proportion, generally not more than two or three per cent., rarely exceeding, or even reaching, six or eight per cent. The chief part of the gold in the California mines is found imbeded in the quartz from which it is very readily freed by the mere mechanical operation of stamping and amalgamating. The sulphurets in the quartz veins of this State are sometimes collected from the sands and subjected to a chemical treatment, or "desulphurizing process," similar in its results to the process above alluded to, and now being introduced into Colorado.

REESE RIVER. The *Reveille* still continues to give favorable accounts from that section of the mines. That paper states that several rich discoveries have recently been made on Skull Creek, near Grass Valley. A fine sample of which was exhibited from a ranch in Grass Valley.

The Perseverance Company, Warner and Wells ledge, had six tons of their surface ore worked at the California mill, which produced bullion of the value of $1645, or about $275 per ton. The cost of crushing, after being delivered at the mill was $75 per ton. The editor thinks this yield a pretty good evidence of the richness of the Reese River mines. We should think that *any* rock that would pay for crushing, at such rates, might be called rich.

IMPORTANT DISCOVERY.—A large and exceedingly rich salt mine has been discovered in Smoky Valley, a few miles south of the sink of Big Smoky Creek. This discovery is an important one to the miners of Bunker Hill and other districts lying upon the border of the valley as well as to those of this place, as the quantity is limited and its location convenient.

Messrs. Miller & Lundbom, assayers, had melted during the week since the 3d instant, $3,000. An assay made by this firm of rock from the Smith & Martin ledge, yielded at the rate of $7,071.88 per ton.

OPHIR IMPROVEMENTS.—We learn from the Virginia *Union* that the work upon the new Ophir shaft which is now being sunk, and intended to be used as the main shaft of the mine, is progressing finely. It is said to be far the most substantial work of the kind on the continent. The size of the shaft before timbering is twelve by fourteen feet, after timbering it is nine by twelve feet in the clear. The timbering is the most permanent and substantial that has ever been undertaken in the country. It is so firmly braced and bolted, that no swelling or pressure of the surrounding rock can ever injure it. It is now down 75 feet, and will be continued, in the same manner to a depth of 700 feet, as rapidly as the work can be pushed ahead. A 500-horse power engine will be placed at its mouth to perform the duty of lifting and pumping. The works of this mine are now under most able and energetic management.

WASHOE STOCK MARKET.

Collated from the Regular Reports of the Virginia Daily papers to Latest Dates.

LATEST ASKED AND BID.

Gold Hill District.—Alpha $1,000 asked. Argo 7b, 10a. Arizona 18b, 25a. Bullion 78b, 100a. Beaver 14b, 30a. Caledonia Tunnel 28b, 35a. Consolidated Company 30b. Challonge 4a. Claremont 4a. Central America 6b, 6a. Crown Point Ravine 13a. Com. Effort 10½b, 11½a. Empress 19b. Effingham, 2½a. Frankel 4b. Golden Swan 30a. Globe 10b, 20a. Gilmore 10a. Gentry 4b, 4½a. Independent 4a. Justice (Nevada) 220b. Jewett & Shepard 1b, 8a. Jenny Lind 3b. Knickerbocker 25b, 42a. Kentucky 3½b, 4¾a. Lafayette 12b, 20a. Mary Ann 100a. Michigan 25b. Miantonomah 9b. Pilot 6a. Silver Bar 3a. Dr. Perry 2a. California 4a. Coppers 25a. Leon 25a. W. B. Astor 6a. Mayflower 7a. North American 145a. North Oregon 20a. Northern Light 6a. Overman 500a. Oneoto 16a. Russian 5b. Rock Island 10b, 20a. Schiller 50a. Silver Vale 5b, 8a. Stevenson Kehoe 9a. Tontine 8b, 18a. Trojan 2b, 2a. Uncle Sam 750b. United American 8½b, 8½a. Garrison 12b, 25a. Shooting Star $15a. Native American 4a. Sandy Bowers 2½a. Great Eastern 4a. Winegarder 6a. Eastern Crown Point 4b, 5a. Monitor 2b, 2a. Burlington 4a. Virginia Express 4a. San Francisco 3b, 7a. Cuba 3a. Yolo 8b, 20a. Tom Paine 3a. John A. Logan 3½a. Prince Edward 8a. Cascade 1½a. Mary Estella 5b, 10a. Amador 5a. Mount Tor. 3¼a. Medina 20a. Sam Patch 6a. Roanoke 3½a. Champion 8a. King Solomoo 2a. East India 3a. North Star 3a. Mechanics 4a.

Virginia District.—Alban 15a. Ashland 15a. Amazon 15a. Belvidere 7b, 10a. Barning Moscow 100a. Bajazette and Goldea Era 65b. Birdsall 8b, 8a. Charter Oak 4a. Clement 7a. Conecrdia 10a. Cole 5b. El Dorado 47a. Florida 15a. Grass Valley and Napoleon 23¼b, 23¾a. Granada 3a. Grand Isle 10a. Germania 2½a. Iowa 8b, 11a. Iad. American 5b. Julia 2½a. Milton 30b. More 2a. Murphy 3a. New Orleans 15a. North Potosi 87½b. Osceola 12a. Ophir 1600b, 1675a. Pride of Washoe Pride of Virginia 4a. Ponce de Leon 10a. Savage 1800b. Sides 350b, 550a. Santa Rita 7b. Santa Fe 20a. Santa Rosa 18a. Shamrock 16a. Utah 135b, 135a. Virginia Hill 1b, 4a. Wm. Penn 6½b, 20a. Washington 5a. York 12a. Cedar Hill Tunnel 2. Washoe 3a.

Deseat.—Lakeview, $4 asked. Harrow, 7a.

Humbolat.—American Basin, $2 bid, $8 asked. Moonlight, 2b. Sheba, 125b.

Devil's Gate.—Kossuth, $2 bid, $6 asked Dowd, 4a. Pride of Nevada, 7b, 7a. Pioneer, 31½a. San Francisco, 7a. Niagara Falls, 2a. St. Lawrence, 4a. Jefferson, 6a. Sierra, 20a. St. Andrews, 6a.

Flowery.—Lady Bryan, $45 bid, $65 asked. Lady Bryan No. 2, 2½b, 5a. Uncle Sam, 2½b, 6a. Weal Chance, 10a. Yankee Blade, 1½b, 1½a. Opal, 2a. McClellan, 100a. Nolnn, 3a. International, 6½b.

Sulphur Springs.—Caye, $10 asked. Capitol, 3a. Deep Red, 10b Grant, 5a. Prospect, 3a. Ohio, 5a. Pony Express, 3½b, 4½a.

Palmyra.—Palmyra Consolidated, $5 asked. Rey del Monte, 10a. Sham, 25b. Occidental, 2½b. Martha, 10a. Oriental, 2½a.

Indian Springs.—Johnson, $29 asked. Roger Sherman, 18a. Whitmnn, 70b.

Silver Star.—Antone, $6 asked. Alabama, 8a. Bella Unioa, 10a. Coryell, 6a. Byroo, 12a. Voltaire, 5a.

Argentine.—North Ophir, $9 asked. Live Yankee, 2b. 3a. Shelton, 12a.

SALES SINCE OUR LAST ISSUE.

Argo, 10 at $7½; 50 at 9; 25 at 8¼; 10 at 8; 10 at 8½. Branch Mint, 9 at 15½; 10 at 18; 5 at 17. Champion, 30 at 2¼; 50 at 2. Childers, 5 at 12. Croesus, 3 at 57. Combined Effort, 10 at 14. Knickerboeker, 15 at 25; 15 at 26; 250 at 20; 2 at 22; 39 34½; 5 at 36½; 5 at 37½; 10 at 30. Kentucky, 20 at 4½; 40 at 4¼. Kenoshe, 10 at 75. Lady Bryan, 30 at 54. John A. Logan, 100 at 2½. Lady Bryan No. 2, 30 at 3¾. La Crosse, 1 at 20. Louisville, 10 at 4. North Potosi, 20 at 95; 10 at 96; 20 at 100; 10 at 102. Mazeppa, 20 at 15. Mother Lumpkins, 20 at 5. Milton, 3 at 33.50. 2 at 32. Mary Ann, 10 at Miantonomah, 10 at 9; 5 at 11. San Francisco, G. D., 10 at 8. Lafayette, 20 at 16; 10 at 14. American Basin, 25 at 2.50. Bullion, 10 at 90; 10 at 85; 5 at 78. Bajazette and Golden Era, 4 at 56. Brotherhood Consolidated, 20 at 2; 35 at 2. Black Warrior, 5 at 8. Birdsall, 20 at 6.50. Costa Rica, 10 at 2. Chollar, 5 at 322.50. Champion, 10 at 2. Consolidated Brotherhood, 25 at 2; 10 at 2.50. Cristo Consolidated, 10 at 50 cents. Caledonia Tuonel, 60 at 35; 20 at 32 50; 25 at 33; 10 at 35.50; 10 at 25. Dr. Perry, 10 at 60 cents. Daney, 65 at 160; 5 at 165. Dewitt Clinton, 10 at 3.50; 10 at 2.75. Echo, 3 at 30. Eureka, 7 at 17.50. Frankell, 10 at 6; 2 at 6.50. Forcade & Ricard, 15 at 3. Globe, 10 at 14; 10 at 16; 15 at 12. Gentry, 15 at 4; 15 at 5; 40 at 5 50. Grant, 10 at 50 cents. Golden Horn, 10 at 4. Hartford, 5 at 14. Irving, 10 at 18; 10 at 7; 10 at 8. Jim. McClellan, 20 at 2.50. Jewett & Sheppard, 50 at 4; 10 at 5.50; 10 at 4.50. Judge Advocate, 20 at 2.50; 20 at 3. Justice, 10 at 250; 30 at 275.50. Jenny Lind, 25 at 3; 69 at 3.50; 15 at 5; 20 at 4; 10 at 4.25; 5 at 4.50; 5 at 5. King Solomon, 30 at 87½ cents; 20 at 1.25; 5 at 1; 50 at 75 cents; 130 at 1; 10 at 62 cents Muy Rico, 5 at 23; 5 at 23.50; Mansfield, 10 at 2; Monitor, 20 at 2. Marlette, 10 at 3; Melones, 40 at 67.50; 10 at 65; 5 at 75; 15 at 70; Milton, 10 34; 5 at 35; North America, 25 at 104; 10 at 105; 10 at 106; 10 at 108; 3 at 96. Napoleon, 100 at 10. Naragansette, 10 at 2. Northern Light, 5 at 4. Osceola, 10 at 8. Ohio, 50 at 2.50. Ophir, 3 at 1,630. Overman, 2 at 4.25; Pony Express, 5 at 5; 10 at 4. Princess, 10 at 9; 5 at 10. Pride of America, 15 at 2. Richlieu, 50 at 5.50; 25 at 5. Russian, 5 at 5.50; 5 at 7. Randolph, 12 at 8; 20 at 10. Rock Island, 10 at 16; 20 at 13.50; 25 at 12.50; 10 at 14.50. San Francisco, 10 at 2.50; 10 at 6; 25 at 5; 10 at 7. Santa Rosa, 50 at 9 Schuylkill, 10 at 12. San Bernard, 20 at 3.50. Schiller, 5 at 13.50. Silver Veil, 55 at 5.25. 25 at 5.65. Trojan, 15 at 7. Utah, 10 at 135. Virginia Hill, 10 at 3. Winnegardner, 10 at 4. White & Saunders, 35 at2. Washington, 5 at 1. Yankee Blade, 5 at 1.50; 5 at 50 cents. United American, 20 at 8.50.

Copper as an Investment.—A Campbell, Esq., one of the editors of the Lake Superior *News and Journal*, writing to his paper from the city of New York, and speaking of copper mining says:—

"We venture the assertion that there is no stock in the world either so safe or remunerative as copper stocks. Bank, Railroad, State and National stocks, except the inflation of speculation, have a standard value based upon the dividends they will surely pay, or from six to ten percentum yearly, but in copper, if the ground is certainly known to be rich and abundant, averaging from two and a half to five per cent. of stamp work, the capitalist who buys from one to five thousand shares of its stock at $10 or $15 or $20 per share, and then invests from $3 to $5 more per share in the form of assessments to open and work the mine is sure to have a stock worth from $50 to $100, a result that warrants the investment.

The stocks of the mines upon the south range of the Ontonagon district are very firmly held and constantly advancing, and we shall be much disappointed if most of the mines upon it do not, in an incredibly short time, rival the very best now on the lake, they certainly will if the stockholders shell out their money, upon their ground, and put up sufficient mills and machinery."

The above is written after an experience of some fifteen years of copper mining at Lake Superior. It will be noticed that two and a half to five per cent. yield of "stamp work," or what we in California would call second class ore, from which the shipping ore has been selected, is there considered a remunerative class of ore; and that a mine producing such an ore must soon, by proper development, reach a high figure in value.

As an evidence of the value placed upon Lake Superior copper stocks we may note a late transaction which occurred at the Rooms of the Fourth Street Board of Trade, in the city of Pittsburg. The property and effects of the Adventure Mining Company, located in the county of Ontonagon, Michigan (Lake Superior) was sold at the above mentioned Board, on the 19th of January last for $110,000, one fourth cash.

Work on the Aquila — Comanche — The work of raising the materials of the Comanche is progressing finely. The main portion of the engines and nearly all the finished iron work has been raised, and thoroughly cleansed, being to all appearances in as good order as before its submergence. The principal part of the heavy castings, with the exception of the guns have also been raised. Upwards of one-half of the entire cargo has now been landed.

The Blessed Rain came pouring down upon us yesterday in torrents. Never before was it more thankfully and joyfully received in this city. We are hopeful that the mountains and valleys have received an abundance.

Amador, Reese River.—This town, it is said, is growing rapidly, and would be considered a wonder if it were three years instead of three months old. All visitors to this district go first to examine the famous Amador ledge. Active operations are in progress upon several extensions. Just beyond the town of Amador is a place called Forty-nine Hill, which is beginning to attract some attention. There are several claims there which assay well. The Aspinwall and Bigelow companies are especially spoken of as promising and eligibly situated for working. A tunnel, started at the foot of the hill, would strike them 400 or 500 feet from the outcrop; and if the ledge continues in richness as they go down, they must soon become very valuable. They are both very heavy as well as rich at the surface; the ore, though silver, much resembling in brilliancy of color "peacock ore" of copper. A working test in San Francisco has fully proved the richness of the ore. The proprietors are working on quietly, making no noise, but satisfied they have a "good thing," sure.

Washoe Coal.—The Territorial *Enterprise* of the 13th inst. contains the following:—

Eds. Enterprise:—We have, as was reported in Friday's issue of your paper, purchased 2,500 lbs. of the El Dorado coal, and to our surprise, find it as good coal as we wish to use, both for heating our boilers and kiln drying purposes. We are constantly using the coal and intend to continue to use it, and those interested may satisfy themselves by calling at our establishment. We feel proud of being the first to prove the value of the coal of that region. Yours, Klein & Knob, Silver City Brewery.

Another College for San Francisco.—We learn from the *Evangel*, the Baptist organ of this city, that active steps are already being taken for the establishment of a college in this city, to be under the direction of that growing religious denomination. They have done well to select this city for its location. The Methodists at Santa Clara, the Congregationalists at Oakland, the Catholics in this city, already have their denominational colleges; why not the Baptists? There is room and need for all.

When chipping wrought-iron the chisel should be dipped in greasy waste occasionally; the labor is much reduced thereby.

A New Mining Law.—The Nevada Territorial Legislature, at its late session, passed a law entitled "An Act for the Encouragement of Mining," approved February 20, 1864. The Virginia *Union* comments upon the same as follows:—

It is an act which the mining community have long stood very much in need of. It provides that shareholders in mining claims which are unincorporated, can be sold out of the claim when they refuse to pay their proportion of the expense of improvements made on the mine by the direction of owners, representing a majority of interest. It has been common for owners in mining claims to neglect, or refuse to pay, their just and proportionate share of the expense of prospecting them, because they have reason to feel confident that their co-owners will not go to the trouble and expense of compelling payment, even where it can legally be done, and when companies are incorporating, it has been a common thing for some of the owners in the claim to refuse to sign the deed of trust, so that they can avoid the payment of assessments and not get sold out. And another similar case often occurs. It is common for men when they go to new mining districts, to locate claims for themselves and friends in the same company, and it is too frequently the case that the friend ungratefully refuses to either sign over the interest he has thus acquired to some person who would willingly take it, and pay assessments on it etc. The active miners of this State have long needed such a law.

Trustees of Mining Incorporations.—An act to authorize Mining Corporations to increase or diminish the number of their Trustees has been introduced in the Senate. It takes two thirds of all the stockholders to do it; certificate must be filed in the office of Secretary of State, and County Clerk; *provided*, that the number of Trustees shall not be diminished to less than three. It shall be the duty of the Trustees, after the filing of such certificate, to call a general meeting of the stockholders for the purpose of electing Trustees.

A Remarkable Indian Tradition.

The following remarkable Indian Tradition was first published in an Exchange some eight or ten years since, with an editorial assurance that the facts embodied were derived from a perfectly reliable source. Among the old men of the Indian Tribes who until recently lived in the vicinity of San Francisco Bay, were preserved legendary tales of their forefathers' achievements, and still the facts embraced in the sketch below live in recollection. It is said of these Indians, that there are those who have welcomed their parents' return from hostile excursions into the country lying near Monterey, by a route along the sea coast, passing over a country since submerged, and where the opening of the bay of San Francisco now lies. By its perusal the reader will derive new light concerning the geographical structure of California and the changes she *may* have undergone within a very brief period of time.

THE LAKE OF CALIFORNIA—AN INDIAN TRADITION.

The aborigines of California, like those of every other portion of America, have long been fading away before the progressive march of civilization, or mixing with the Spaniards who conquered them two centuries ago, have lost their identity as aboriginies. Like their eastern brethren they are leaving their ancient hunting grounds, the homes and sepulchres of their fathers, and wandering they hardly know where, while the white man, as by right divine, takes and calls their lands his own. But still they have their legends and their traditions, and even now they gather around their broken council fires—a mockery of palmier days—and tell, the fathers to their sons, the tales of former times, which their forefathers had told them.

Among the traditions current among them is the following which is certainly full of interest. They relate that where the Bay of San Francisco now is, was formerly a great lake longer and broader and deeper than the bay. According to their accounts this lake was more than three hundred miles in length, with no outlet to the ocean except in the rainy season, when it would overflow its banks and a small stream would flow to the ocean some thirty miles south of the present outlet to the Bay.

The ridge of hills along the coast was then unbroken and served as a dyke to prevent the waters of the lake from escaping to the ocean. The level of the lake was many feet above that of the ocean, and its waters extended far up to what is known as the Sacramento valley, and southward covering the valley of the San Joaquin.

On the banks of this lake, centuries ago, populous tribes of Indians dwelt, whose villages lined its shores. Indeed, if credence is to be given to the tales of the Indians, the population of California will never equal those ancient days, when the red men fished in the fresh waters of the lake, and hunted their deer undisturbed through the forests.

The hills along the coast are formed of soft sandstone, and through this, the tradition relates, the water began to make a breach, which yearly grew wider, until it burst through and among the hills with tremendous power, leaving steep cliffs and precipices to mark its way. And what was once a lake several hundred miles in length, is now a bay not forty miles long. This may have been the cause for such a change, but it would seem far more reasonable to attribute it to some volcanic commotion which in those days might have been as prevalent there as they are now in Mexico and Central America.

How far this tradition can be corroborated, must be determined by those who have the means. But no one who has wituessed the steep bluffs aronnd San Francisco, or has passed the singular entrance of the Bay, called the Golden Gate, with its perpendicular walls, or has seen the no less singular bluffs of Raccoon Straights, a few miles north of San Francisco, can for a moment doubt but that they were formed by some powerful agency, either fire or water.

On the hills around San Francisco fresh water shells are found, and the small island of Yerba Buena, which lies directly opposite the town, rising out of the Bay at least one hundred feet, is completely covered with shells, which facts go far to prove the truth of that tradition, which has no doubt been handed down from former generations as marking an era no less important in Indian tradition than the deluge is in sacred history. This event may have taken place a thousand years or even twenty centuries ago, as the traditions afford no data as to when it occurred. It is a subject well worthy of study, and which may throw some light as to the origin of the gold dust, and the manner of its distribution over so large a tract of country.

SPECIFIC GRAVITY.—Hiero, king of Syracuse, who reigned in the fifth century, having furnished a workman with a quantity of gold for making a crown, suspected that he had been cheated, and that the workman had used a greater alloy of silver than was necessary in the manufacture of it; he therefore applied to Archimedes for a detection of the fraud. This celebrated mathematician was led by chance to a method of detecting the imposture, and of determining precisely the quantities of gold and silver of which the crown was composed. While he was bathing in a tub of cold water, he observed that, as he immersed his body in it, the water ran out, and he immediately concluded that, supposing the tub full, the water which ran out when his whole body was immersed, was equal in bulk to his body. Archimedes was so pleased with this discovery as to run about the streets, exclaiming, "I have found it!" Others affirm that he offered a hecatomb to Jupiter for having inspired him with the thought. The principle having thus suggested itself to Archimedes, he procured a ball of gold and another of silver, exactly of the same weight as the crown, considering that if the crown were altogether either of gold or silver, the balls of gold or silver would be of the same bulk, and consequently, when immersed in water, would raise it just as high as the crown would if immersed. And if, on the contrary, the crown was of gold and silver mixed in a certain proportion, this proportion would be discovered by the hight to which the crown would raise the water, higher than the gold ball, or lower than the silver ball.

EXPLOSION IN A COAL MINE IN VIRGINIA.—Our readers will recollect the account we gave, some time since, of an explosion in a coal mine at the Buttes, near Marysville, and the explanation we subsequently gave of it in one of our articles on "Ventilation of Mines." Our attention has since been called to a similar accident in a coal mine in the State of Virginia. The terrific nature of the Virginia explosion may well be imagined from the sheet of flame from the mouth of the pit. The occurrence is described as follows:—"The explosion which was caused by the ignition of gas, occurred in Raccoon Pit, near Clover Hill, worked by the Chesterfield Coal and Iron Mining Company, resulting in the death, by wounds and suffocation, of sixteen workmen, a number of others being also wounded, three fatally. Mr. Bertram, the overseer, was killed. All the bodies were recovered. The explosion was succeeded by a sheet of flame ascending several hundred feet above the mouth of the pit. The damage done to the pit must have been serious."

THE PAST WINTER.—It is an astonishing fact, says an exchange, that the Rocky Mountains should have been the dividing line for the weather and storms. East of those mountains the winter has been exceedingly cold and the fall of snow very great. West of that ridge there has been, we believe, only one snow-storm which reached Salt Lake, while in California and Nevada Territory the fall of snow and rain has been lighter than in any winter since 1850.

Two Good Canvassing Agents can find profitable employment by calling at this office. None but active and competent men need apply.

How to make your Remittances.—In most of the mining towns, brokers will furnish checks on San Francisco at par, (or at a very slight advance) to those who wish to pay us for subscriptions, advertising, mining blanks, etc. When it is more convenient, money may be remitted by mail at our risk if the parties sending will register their letters. Money sent by mail is seldom lost if properly enclosed. An excellent method is that of opening the layers of a card, placing the coins between the layers and sealing the edges together.

W. R. MAURICE,
Stock Broker, Real Estate Agent
And Mining Secretary.
Office, No. 708 Montgomery Street, San Francisco. Reference—Messrs, PARROTT & Co., Bankers. 8v8.tf

THOMAS HILL,
Member of the S. F. Stock and Exchange (1st) Board.
A. H. MURDOCK,
Member of Stock Exchange,
No. 623 Montgomery Street. Opposite Montgomery Block,
SAN FRANCISCO.

RICHARD WEGENER,
Accountant, Mining Secretary,
AND GENERAL AGENT.
No. 204 Montgomery St., Southeast cor. Montgomery & Pine Sts.,
11-m SAN FRANCISCO.

E. C. DAKE,
Dealer in Clothing and Gent's Furnishing Goods,
541 and 543 Washington Street, Montgomery Block,
j2.tf San Francisco.

Business Cards.

W. O. ANDREWS,
NOTARY PUBLIC,
—AND—
Commissioner of Deeds for Nevada Territory.
Office, Montgomery Block, 630 Montgomery Street,
10v8-2m SAN FRANCISCO.

E. A. HYDE,
Commission & Stock Broker,
AND MEMBER OF
The "Washoe Stock Exchange"
10v8-1m **Virginia, Gold Hill, N. T.**

H. C. KIBBE,
Mining Secretary,
Commissioner for Nevada Territory,
22 Lyceum building, cor. Washington and Montgomery sts.,
10v8-tf SAN FRANCISCO.

C. A. CRANE,
STOCK BROKER,
Member Stock Exchange,
Office, Government House, Room No. 27, San Francisco. 10v8

A. J. Shipley,
Mining Stock, Loan & Money Broker.
Particular attention paid to Washoe, Esmeralda, and all other classes of Mining Stocks. Collections promptly attended to. Money to Loan on Stocks.
Office, Lyceum Building, Room No. 102, Entrance on Washington Street, above Montgomery, San Francisco. 9v8-q

HENRY BAKER AND JOS. N. SOUTHER,
Mining Secretaries & Brokers.
Rooms 12 & 14 Athenæum Building, corner Montgomery & California Streets, San Francisco.
B. & S. will attend, in a prompt and satisfactory manner, to the Incorporation of Mining and other Companies, the purchase and sale of Stocks and Real Estate, and the adjustment of accounts.
8v8-m

H. S. HOMANS,
NOTARY PUBLIC,
And Commissioner of Deeds for Nevada Territory,
MINING SECRETARY, CONVEYANCER, ETC.,
New Stock Exchange rooms, Montgomery Street, next door to the Bulletin Office, SAN FRANCISCO. 1-1m

T. C. SANBORN & CO.
Stock Brokers,
No. 630, Montgomery Street,.....San Francisco.
OPHIR SILVER MINING STOCK,
GOULD & CURRY MINING STOCK,
CHOLLAR MINING STOCK,
CALIFORNIA STEAM NAVIGATION COMPANY'S STOCK,
☞ **BOUGHT AND SOLD.** ☜
jltf.

W. P. DENCKLA. A. L. CHAMBERLIN.
DENCKLA & CHAMBERLIN,
Stock and Exchange Brokers,
No. 413 Montgomery Street,
SAN FRANCISCO.
☞ Deeds, etc., for record in Humboldt County, Nevada Territory, received and forwarded. 1-tf

RENNIE & MORRISON,
STOCK BROKERS,
N. E. Cor. of Montgomery and Washington Sts., San Francisco.
Legal Tenders Bought and Sold. 7v8-mtf

L. B. ADSIT & JOHN J. HALEY,
Stock Brokers,
MEMBERS OF THE STOCK AND EXCHANGE BOARD OF BROKERS and of the PACIFIC BOARD OF BROKERS.
Stocks Bought and Sold only on Commission.
No. 604 MONTGOMERY STREET,
1-tf Between Clay and Merchant, San Francisco.

WM. S. LYON & CO.,
Stock and Exchange Brokers,
308 Montgomery Street, corner of Pine,
SAN FRANCISCO.
QUARTERMASTER'S WARRANTS BOUGHT. THE HIGHEST Price paid for Legal Tender Notes. Open till 9 P. M. 1-3m

JAS. L. POND, Member Pacific B'd of Brokers. G. S. CHAPIN, Member S. F. B'd of Brokers.
CHAPIN & POND,
STOCK BROKERS
No. 726 Montgomery street, Up Stairs
5v8-2m SAN FRANCISCO, CAL.

REMOVAL.
J. R. BEARD, STOCK BROKER,
MEMBER SAN FRANCISCO STOCK AND EXCHANGE BOARD,
HAS REMOVED HIS OFFICE TO
5v8-tf No. 707 Montgomery street, Brokers Block.

BUSWELL & CO.,

Book-Binders, Paper-Rulers,

And Blank-Book Manufacturers.

No. 509 Clay street and 508 Commercial street, between Montgomery and Sansome, San Francisco.

4v8-tf

WM. P. TAAFFE,

IMPORTER AND JOBBER OF

Staple and Fancy Dry Goods, Carpets, Duck, etc.,

Corner of Front and Sacramento Streets, San Francisco. tf

D. NORCROSS,

MILITARY GOODS OF ALL DESCRIPTIONS. NAVY TRIMMINGS AND EMBROIDERIES. REGALIA FOR ALL ORDERS.

Masonic Temple, No. 6, Post Street. aug17-tf

A. C. MORSE,

Mining and Real Estate Agent,

Office, S. W. corner Pine and Silver Sts., Aurora.

HAVING MADE ARRANGEMENTS WITH MINER S. MARTIN, Esq., one of the principal Stock Brokers of San Francisco, I am prepared to BUY and SELL every description of Mining Stocks in Esmeralda District. tf

ARMES & DALLAM,

IMPORTERS AND JOBBERS OF

WOOD AND WILLOW WARE,

Brushes, Twine, Cordage, Etc.,

And Manufacturers of California Pails, Tubs, Brooms, Etc.,

217 and 219 Sacramento St., between Front and Davis,

SAN FRANCISCO. 2-tf

NATHANIEL GRAY,

General Furnishing Undertaker,

641 Sacramento St., corner of Webb, San Francisco. 1

PHILLIPS & CO.,

(Successors to W. H. Raxter & Co.)

MANUFACTURERS AND IMPORTERS OF

HARNESS AND SADDLES,

BRIDLES, WHIPS, COLLARS, SADDLERY WARE, Etc.,

407 Battery St., between Clay and Merchant, San Francisco.

N. B.—All kinds of Work made to order and Warranted. Jobbing done with neatness and dispatch, and on the most reasonable terms. 2-tf

EDWARD BOSQUI & CO.,

517 Clay Street, San Francisco,

Book-Binders, Paper-Rulers,

And Blank Book Manufacturers.

Blanks of all kinds printed and ruled to any desired pattern. [2-tf

GEO. B. HITCHCOCK & CO.,

Counting-House Stationers,

HAVE ALWAYS IN STORE A WELL-SELECTED STOCK OF

American and Foreign Stationery.

Blank Books of all kinds, manufactured to any desired pattern, and at the shortest notice. Mining Companies supplied in the best manner, and at reasonable rates.

GEO. B. HITCHCOCK & CO.,

413 and 415 Sansome St., cor. Commercial, S. F. 2-1m

C. BEACH,

IMPORTER AND DEALER IN

Juvenile and School Books, Stationery,

Kustel's California Gold and Silver Processes of Extraction, Etc., Etc.

No. 34 Montgomery street (opposite the Lick House),

SAN FRANCISCO. 4v8-3m

BLASTING POWDER!

Prime Blasting Powder, on Consignment

And for sale in lots to suit purchasers, by

J. S. CURTIS,

No. 405 Front street, San Francisco. 6v8-tf

JOHN DANIEL,

(SUCCESSOR TO O. GORI)

MARBLE WORKS,

No. 408 Pine street, bet. Montgomery and Kearny, San Francisco.

Mantels, Monuments, Tombs, Plumbers' Slabs, Etc.,

On hand and Manufactured to order.

Goods shipped to all parts of the State. Orders respectfully solicited. 5v8-3m

Owen's River Canal Company.

FOR SALE, FOR ACCOUNT OF THE COMPANY, 7,000 SHARES of the above stock, at $1 per share. It is confidently presented to the public as the best investment, for the price, now offered this market.

Office of the Company No. 323 Montgomery street. 1tf

STOCK EXCHANGE.

Mining Stocks to be Advertised and

PLACED ON STOCK LIST, MUST BE HANDED INTO

OFFICE NO. 2, STOCK EXCHANGE,

Before 5 o'clock P. M. (9v8-tf) M. G. ELMORE, Sec'y.

E. D. Farrington,

ASSAYER.

No. 430 Montgomery street, San Francisco. N. B. Assays guarranteed. 8v8-1m

To the Assayers and Mining Companies

OF THIS COAST.—THE UNDERSIGNED, HAVING SUCCEEDED in manufacturing Muffles, Assay Crucibles, Scorifiers and Annealing Cups, offers them for sale at reasonable prices. Also, orders for Assayers' Implements and Materials received and carefully attended to. H. HERZER.

No. 17 Kearny St., near Market, San Francisco. 8v8-m

Riehn, Hemme & Co.,

ASSAYERS.

Assays made of Ores, Minerals and Metals.

CHAS. F. RIEHN, late U. S. Branch Mint, gives lessons in Assaying, also in Mineralogy and Chemistry, as far as required to become a practical Assayer.

REFERRED with permission to Messrs. F. Parrot & Co., R. B. Swain, Esq., Messrs. Alsop & Co., Messrs. Donohoe, Ralston & Co. 1

G. E. MOORE,

Assayer and Analytical Chemist,

Having established a Chemical Laboratory, furnished with every requisite for delicate Analytical work, is prepared to execute the Assay and Analysis of Ores, Mineral Waters, Guanos, etc., with accuracy and dispatch. No 612 Sacramento Street.

REFERENCES:—Prof. J. D. Whitney, State Geologist, San Francisco; Alsop & Co., San Francisco; Sather & Church, San Francisco; John Parrott, San Francisco; D. O. Mills, Sacramento. 1tf

ASSAYS!

Promptness and Accuracy Secured

BY THE USE OF THE MOST IMPROVED METHODS OF ANALYSIS!

Advantageous Terms for Prospector's Clubs and Mining Companies.

J. H. CHURCHILL, M. A.,

[FROM EUROPE.]

24 Government Block, corner of Sansome and Washington Streets, San Francisco.

"HINTS FOR PROSPECTORS" free by post. 1tf

NORTH BEACH

Quartz Mill and Reduction Works

ARE PREPARED TO WORK GOLD AND SILVER ORES, IN large or small quantities.

Working assays made of small lots, and all kinds of ores crushed at short notice.

Our new and complete Machinery, will enable us to give results fully up to the merits of rock.

WHEELER & THAYER, Proprietors.

C. C. JONES, Amalgamator.

San Francisco, Oct. 13, 1863. j2tf

HOWLAND, BELL & CO.,

Copper Crushing and Grinding.

Attend to all kinds of Grinding & Crushing,

—SUCH AS—

COPPER ORES, MARBLE DUST, FIRE-BRICK DUST, DRUGS,

And Feed of all Kinds,

All of which will be Ground at the Shortest Notice.

—ALSO—

California Mineral Paint and Mineral Polishing Powder.

Works—No. 537 Market Street.

San Francisco, January 1st, 1864. 1-tf

JOHN TAYLOR,

IMPORTER AND DEALER IN

Druggists' and Chemists' Glassware,

And a Full Assortment of Assayers' Articles.

—INCLUDING—

Bullion and Assay Balances, Furnaces, Muffles, Crucibles, Cupels, Acids, Etc., Etc.

Also—A Full Assortment of Reagents.

JOHN TAYLOR,

514 Washington St., Up Stairs, San Francisco. 2-tf

KUSTEL & DEETKIN'S

METALLURGICAL WORKS,

FOR THE REDUCTION OF

SILVER AND GOLD ORES, TAILINGS, SULPHURETS, ARENIURETS, ETC., ETC. CUPELLATIONS AND REFINING OF SILVER AND GOLD,

Practical Assays for Silver and Gold, in small and large quantities, by Smelting, Chlorination and Pan Manipulation.

Works—On the San Bruno Road.

OFFICE—No. 605 Montgomery St., San Francisco. nov7-tf

LEANDER RANSOM,

Civil Engineer and Surveyor,

HAVING BEEN CONNECTED WITH THE PUBLIC WORKS OF the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. Also

State Locating Agent,

AND AS SUCH HAVING THE SALE OF

600,000 Acres of State School Lands.

At the low price of $1,25 per Acre.

TERMS—Twenty per cent in cash and the balance on a credit of several years.

Office, 323 Montgomery streets. oc7-tf

DESKS AND OFFICE FURNITURE OF ALL KINDS, FOR SALE BY

JOHN WIGMORE,

No. 423 California St., San Francisco

OFFICE JOBBING, of all kinds, promptly attended to. j2-tf

J. H. GRUSH, J. A. PEER, W. BUSHMAN

GRUSH & CO.,

Pattern and Model Makers.

Drawings Made for Engines, Mills, Water Wheels, Mining Machinery, Etc.

—ALSO—

WOOD WORK FOR ALL KINDS OF MACHINERY.

SCROLL SAWING DONE TO ORDER.

Fremont St., between Market and Mission, San Francisco. 3-3m

GEORGE T. PRACY,

MACHINIST AND BLACKSMITH,

Steam Engine, Flour and Saw Mill,

And Quartz Machinery, Printing Presses,

—AND—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED

Nos. 109 and 111 Fremont street, near corner of Mission,

OPPOSITE MECHANICS' MILL,

SAN FRANCISCO. 3-qy

HAWLEY & CO.,

—IMPORTERS AND DEALERS IN—

Hardware, Building Materials,

CARPENTERS' TOOLS, AGRICULTURAL AND MINING IMPLEMENTS, ETC., ETC.

Cor. of California and Battery Streets, San Francisco. 3-m

D. D. HINCKLEY, WM. E. WORTH. WM. A. FIELD

Fulton Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First Street, between Market and Mission stree

SAN FRANCISCO. 3-qy

Pacific Metallurgical Works,

North Beach, San Francisco.

THE COMPANY HAVING BEEN TO A LARGE EXPENSE IN enlarging their Works, are now prepared to contract to work any quantity of Gold and Silver Rock, nearer the true assay than any other Company in this Country, or Europe.

G. T. FOUQUE, Superintendent.

S. C. BRADSHAW, Jr., Secretary.

Office, 511 Sacramento street, San Francisco. 3-tf

ORE BAGS.

Of various qualities and sizes, for sale by LEWIS & DETRICK,

113 Clay St., San Francisco. 10v8-m

Boston Mastic Roofing.

WE ARE PREPARED TO FILL ALL ORDERS FOR ROOFING throughout the State, Mexico or Nevada Territory. The attention of miners and mill owners are especially called to this notice, it being the cheapest and most economical roofing in use.

Office 135 Montgomery Street, near Bush, San Francisco.

N. P. PERIN & CO. 10v8-2m

ORE BAGS

Of various Sizes and Qualities

FOR SALE IN BOND OR DUTY PAID, BY

CROSS & CO., 614 Battery St. 10v8-1m

McDONALD'S OYSTERS.

AT THE OLD STAND, NEW WORLD MARKET, CORNER CLAY and Leidesdorff Streets. The whole front of the Old Market has been rebuilt and rejuvenated, and fitted up in fine style, with private rooms for ladies, where they can procure the best of refreshments, at all hours—day or night. Parties of Gentlemen and Ladies can be supplied with the best of everything the market affords.

The best of MUTTON CHOPS and PORTER HOUSE STEAKS always on hand. Hot tea and Coffee at all hours. 9v8-m

Palmer's Patent

ARTIFICIAL LEG,

Manufactured in Philadelphia, Pa.

JARVIS JEWETT, AGENT.

629 Washington Street, San Francisco, Cal. 10v8-1m

W. W. HANSCOM,

Steam and Mechanical Engineer. Designs furnished, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc., etc. Agent for McKenzie's Patent Cupola and Blower.

At the Golden State Iron Works,

First Street, San Francisco. tf.

GEORGE H. BAKER,

Lithographer & Engraver,

No. 522 Montgomery Street, San Francisco.

MINING STOCK CERTIFICATES LITHOGRAPHED IN THE MOST ARTISTIC STYLE. CALL AND EXAMINE SPECIMENS. 10v8-tf

Stock Reports.

SAN FRANCISCO STOCK BOARDS.

Sales by the San Francisco Stock and Exchange Board, the Stock Exchange, and the Pacific Board of Brokers.

[Revised for the Mining and Scientific Press.]

Saturday, March 12, 1864

S. F. STOCK AND EXCHANGE BOARD.

14 shares Gould & Curry at $4700 per foot, b 30.
4 do Gould & Curry at $4625 per foot.
132 do Ophir at $1620 per foot, regular way.
120 do Dancy at $155.
3 do Uncle Sam, at $775.
20 do Wide West at $20.
10 do Baltic at $150, b 30.
20 do Baltic at 130.
15 do Baltic at 125.
5 do North American at $105.
30 do North American at 106.
20 do Lafayette, G. H., at $16, b 30.
20 do Lafayette, G. H., at 14.
10 do Michigan at $20.
10 do Buckeye at $20.
5 do Nevada, J. G., at $132¼.
10 do Real del Monte at $53, b 30.
10 do Real del Monte at 50.
10 do Real del Monte at 51, s 30.
50 do Lady Bryan at $52½, b 30.
10 do Lady Bryan at 50.
10 do Lady Bryan, at 50¼.
90 do Lady Bryan at 50, s 30.
40 do Lady Bryan at 51.
20 do Lady Bryan at 53, h 30.
10 do Lady Bryan at 51, s 30.
5 do North Potosi at $94.
20 do North Potosi at 95.
10 do North Potosi at 90, s 30.
10 do North Potosi at 92½, s 30.
10 do North Potosi at 100, b 30.
10 do North Potosi at 100, b 25.
3 do North Potosi at 100.
10 do Bullion at $74.
10 do Bullion at 80, b 30.
10 do Bullion at 79, b 30.
10 do Blue Ledge at $20.

AFTERNOON SESSION.

12 do Ophir at $1620 per foot.
100 do Chollar at $325 per foot.
20 do Chollar at 326 per foot.
20 do Dancy at $170 per foot, b 30.
10 do North American at $105, s 30.
5 do North American at 106.
20 do North American at 105.
6 do North American at 105, Tuesday.
5 do Real del Monte at 54.
5 do Real del Monte at 55.
10 do Real del Monte at 53½.
20 do Real del Monte at 57½.
40 do Real del Monte at 60, b 30.
35 do Real del Monte at 57.
15 do Real del Monte at 56½.
10 do Lady Bryan at $54, b 20.
140 do Lady Bryan, at 55, b 30.
30 do Lafayette, G. H., at $14½.
10 do Lafayette at 14¼.
100 do Lafayette, G. H., at 15.
25 do North Potosi at $95.
2 do Uncle Sam at 780.
10 do Wide West at $19¼.

PACIFIC BOARD OF BROKERS.

10 do North American at 105.
10 do North American at 103½.
10 do Real del Monte at $48, s 30.
2 do Real del Monte at 50½.
10 do Real del Monte at 50, s 30.
5 do Real del Monte, at 51.
5 do Real del Monte at 51½.
5 do Real del Monte at 52.
5 do Real del Monte at 52½.
34 do Caledonia Tunnel at $27½, b 30.
10 do Caledonia Tunnel at 25.
10 do Caledonia Tunnel at 25¼.
10 do Caledonia Tunnel at 25, r w.
7 do Caledonia Tunnel at 25.
10 do Caledonia Tunnel at 25½, r w.
10 do Caledonia Tunnel at 26, 4 d.
20 do Caledonia Tunnel at 25½.
10 do Caledonia Tunnel at 27, b 30.
5 do Blue Ledge at $20.
10 do Blue Ledge at 22, b 30.
5 do De Soto at $48.
10 do De Soto at 47½.
10 do Lady Bryan at $52½, 4 d.
20 do Lady Bryan at 51.
10 do Lady Bryan at 51, 2 d.
10 do Lady Bryan at 52¼, b 10.
10 do Lady Bryan at 52, b 4.
10 do Buckeye at $20.
25 do Crockett Consolidated at $16.
2 do North Potosi at $100.
20 do Mountain Tun'l. Co., H., at $20.
5 do Santa Rosa at $7.
10 do Santa Rosa at 8½, b 30, n d.
5 do Baltimore American at $40.

STOCK EXCHANGE.

27 do Real del Monte at 51.
10 do Real del Monte at 51¼.
36 do Real del Monte at 54.
16 do Real del Monte at 55.
10 do Real del Monte at 55½.
5 do Real del Monte at 60, b 30.
20 do Real del Monte at 56.
3 do Napoleon, copper, at $62¼.
5 do Blue Ledge at $18¾.
5 do Blue Ledge at $18¾.

S. F. Stock and Exchange Bd. sales....$275,862 50
Stock Exchange sales 7,034 75
Sales by the Pacific Board of Brokers.. 12,096 00

Total sales of the day, by all Boards,. 295,924 25

Monday, March 14.

S. F. STOCK AND EXCHANGE BOARD.

36 shares Ophir at $1630.
5 do Yellow Jacket at $1025.
20 do Chollar at $322½.
250 do Dancy at $160 per foot.
20 do Dancy at 161 per foot.
5 do North Potosi at 100.
10 do North Potosi at 96.
10 do North Potosi at 102, b 30.
10 do North Potosi at 95, s 30.
10 do North Potosi at 100, b 30.
10 do North Potosi at 95.
40 do Melones at $67½.
5 do Melones at 75, b 30.
10 do Melones at 65, s 30.
10 do Melones at 66.
5 do Melones at 70, b 30.
30 do Lady Bryan at $54.
3 do Echo at $30.
50 do Caledonia Tunnel at $35, b 30.
20 do Caledonia Tunnel at 32½.
20 do Caledonia Tunnel at 33.
20 do Caledonia Tunnel at 33½.
10 do Nevada, J. G., at $230.
10 do Nevada, J. G., at 227½, r w.
10 do North American at 105.
110 do North American at 106, r w.
25 do North American at 104.
10 do North American at 108, b 30.
3 do Buckeye at $18½.
35 do Real del Monte at $55.

AFTERNOON SESSION.

4 shares Gould & Curry at $4720 per foot, b 30.
20 do Dancy at $160 per foot.
40 do Dancy at 167½ per foot, b 30.
10 do Buckeye at $18, s 30.
10 do North American at $109, b 30.
15 do North American at 104.
10 do Baltic at $150, b 30.
15 do Nevada, J. G., at $240, b 30.
10 do Melones at $65, b 30.
60 do Melones at 65.
10 do Melones at 67.
30 do Melones at 70, b 30.
10 do North Potosi at 97½.
25 do North Potosi at 100.
96 do North Potosi at 96, s 30.
10 do Caledonia Tunnel at 30.
20 do Caledonia Tunnel at 31, b 30.
20 do Caledonia Tunnel at 29.
10 do Lady Bryan at 53, b 30.
20 do Lady Bryan, 51.
40 do Lady Bryan, at 49, s 30.
30 do Lady Bryan, at 51, b 30.
2 do Wide West at $19.
60 do Uncle Sam, F. D., at $7.
10 do Uncle Sam, F. D., at 8.
10 do Uncle Sam, F. D., at 7½.

PACIFIC BOARD OF BROKERS.

5 do Real del Monte at $58¼.
5 do Real del Monte at 58.
5 do Real del Monte at 58, r w.
5 do Real del Monte at 56.
15 do Real del Monte at 56, 3 d.
20 do Real del Monte at 56, r w.
10 do Real del Monte at 59, b 30, n d.
5 do Real del Monte at 59½.
11 do Real del Monte at 55.
5 do Real del Monte at 56, Sat.
15 do Real del Monte at 56, 5 d.
10 do Real del Monte at 59. b 30, n d.
5 do Real del Monte at 55½.
5 do Real del Monte at 54¾.
5 do Real del Monte at 58, b 30, n d.
5 do Real del Monte at 54½.
5 do Real del Monte at 54.
30 do South American at $25.
10 do South American at 25, r w.
5 do North American at $100.
20 do Lady Bryan at 57½, b 30.
10 do Lady Bryan, at 54½.
5 do Lady Bryan, at 53.
5 do Lady Bryan, at 52.
10 do Lady Bryan at 51, s 30.
10 do Caledonia Tunnel at $32.
10 do Caledonia Tunnel at 34.
10 do Caledonia Tunnel at 34, 3 d.
10 do Caledonia Tunnel at 34½.
5 do Caledonia Tunnel at 34½, r w.
20 do Caledonia Tunnel at 34, r w.
20 do Caledonia Tunnel at 36, b 30.
100 do Table Mountain, copper at $6.
5 do Blue Ledge at 18.
10 do Blue Ledge at 18, r w.
10 do Blue Ledge at 17.
10 do Wide West at $19¼, r w.
10 do Wide West at $19½.

STOCK EXCHANGE.

5 do Real del Monte at $56.
5 do Real del Monte at 57.
3 do Real del Monte at 51.
4 do Real del Monte at 53, b 30.
105 do Harmon, at $35.
20 do Harmon at 34.
10 do Lady Bryan at $54.
5 do Lady Bryan at 60, b 30.
10 do Gold Canon at $26.
10 do Gold Canon at 23½.
10 do Caledonia Tunnel at $34.
10 do Caledonia Tunnel at 36, b 30.
20 do Caledonia Tunnel at 33.
10 do Caledonia Tunnel at 33½.
5 do North Potosi at $111.
5 do Moss, Va., at $35.
10 do Melones at $63½.

S. F. Stock and Exchange Bd. sales $216,909 50
Sales by the Pacific Board of Brokers.. 15,821 50
Sales by the Stock Exchange..... 10,405 00

Total sales of the day, by all Boards, 243,136 00

Tuesday, March 15.

S.F. STOCK AND EXCHANGE BOARD.

4 shares Gould & Curry at $4620 per foot.
36 do Ophir at $1630 per foot.
10 do Ophir at 1630 per foot, r w.
20 do Dancy at $152½ per foot.
20 do Dancy at 150.
40 do Dancy at 148 per foot.
20 do Dancy at 150 per foot, b 30.
12 do Chollar at $320 per foot.
8 do Chollar at 312½ per foot.
20 do Josephine, Coso, at $1.
10 do Burning Moscow at $100, s 30.
5 do Antelope at $225, b 30.
25 do North Potosi at 35.
10 do North Potosi at $39.
40 do North Potosi at 40.
10 do North Potosi at 40, s 30.
10 do North Potosi at 43, b 30.
20 do North Potosi at 42, r w.
10 do North Potosi at 41¾.
5 do North Potosi at 43.
10 do North Potosi at 43, r w.
20 do Real del Monte at $48.
5 do Real del Monte at 47¾.
20 do Real del Monte at 47.
5 do Real del Monte at 45.
15 do North American at $104.
85 do North American at 104, r w.
10 do Nevada, J. G., at $230.
10 do Nevada, J. G., at 240, b 30.
10 do Melones at $65.
13 do Melones at 62, r w.
5 do Melones at 60.
5 do Melones at 62½, b 30.
10 do Melones at 65, b 30.
25 do Lady Bryan at $50.
25 do Lady Bryan at 51½.
30 do Lady Bryan at 51.
10 do Lady Bryan at 53, b 30.
30 do Lady Bryan at 52½.
40 do Lady Bryan at 50, s 30.
10 do Lady Bryan at 50½.
20 do Lady Bryan at 50, r w.
20 do Lady Bryan at 49, b 30.
20 do Echo at $30.
5 do Pride of the West at $85.
5 do Echo at $30.
10 do Bullion at $74.

AFTERNOON SESSION.

20 do Daney at $125 per foot.
20 do Dancy at 130, s 30.
20 do Dancy at 135, b 30.
52 do Dancy at 130.
42 do North American at $104.
85 do Lady Bryan at $50.
30 do Lady Bryan at 50¼.
20 do Lady Bryan at 50½, r w.
30 do Lady Bryan at 52½, b 30.
40 do Lady Bryan at 50, s 30.
40 do Lady Bryan at 52½, b 30.
45 do North Potosi at $45.
20 do North Potosi at 45, s 3.
10 do North Potosi at 46.
30 do North Potosi at 47.
10 do North Potosi at 45, r w.
50 do North Potosi at 43.
30 do North Potosi at 42¼, s 30.
20 do North Potosi at 43½.
10 do Blue Ledge at $15.
50 do Blue Ledge at 15, s 30.
20 do Blue Ledge at 17.
10 do Blue Ledge at 18.
10 do Real del Monte at $42.
60 shares Buckeye at 19, b 30.
10 do Buckeye at 20, b 30.
20 do Union, R. D., at $3.
35 do Melones at $57½, b 30.
10 do Baltimore American at $39.
5 do Caledonia Tunnel at $28.

PACIFIC BOARD OF BROKERS.

40 do North Potosi at $100, b 30.
10 do North Potosi at 94.
10 do North Potosi at 100, b 30, n d.
10 do North Potosi at 92½.
10 do North Potosi at 80.
2 do North Potosi at 75.
5 do North Potosi at 41.
3 do North Potosi at 42.
20 do Lady Bryan, at 49½.
20 do Lady Bryan, at 49.
10 do Lady Bryan at 49½, 1 d.
20 do Lady Bryan, at 50.
10 do Lady Bryan at 52, b 10, n d.
10 do Lady Bryan at 50½.
30 do Lady Bryan at 50½, r w.
100 do Lady Bryan at 51½, b 15.
30 do Lady Bryan at 52, b 10.
10 do Lady Bryan at 50, r w.
5 do Lady Bryan at 51, r w.
20 do Caledonia Tunnel at $33, b 30.
20 do Caledonia Tunnel at 33, b 30, n d.
20 do Caledonia Tunnel at 29.
10 do Caledonia Tunnel at 32, b 30, n d.
20 do Caledonia Tunnel at 23, s 30.
5 do Caledonia Tunnel at 28¾.
24 do Blue Ledge at $17.
5 do North American at $104.
5 do Real del Monte at $54.
15 do Real del Monte at 43½, r w.
10 do Real del Monte at 44, r w.
10 do Real del Monte at 44, 2 d.
15 do Daney at $140.
10 do Independent, G. H., at $31½.

STOCK EXCHANGE.

10 do Real del Monte at $47½.
80 do Coso at $5½.
10 do Coso at 5.
50 do Caledonia Tunnel at $30.
20 do Caledonia Tunnel at 32½.
20 do Caledonia Tunnel at 29.
5 do Caledonia Tunnel at 28½.
40 do Lady Bryan at $52.
40 do Lady Bryan at 53.
20 do Gold Canyon at $23½.
10 do Harmon at $34.
10 do Melones at $65.
4 do Melones at 70.
10 ds Melones at 60.
20 do Table Mountain, copper, at $12.
5 do Crocket Consolidated at $15¼.

S. F. Stock and Exchange Bd. sales.....$203,288 50
Stock Exchange sales..... 10,643 75
Sales by the Pacific Board of Brokers.. 28,191 75

Total sales of the day, of all Boards,.. 242,124 00

Wednesday, March 16.

S. F. STOCK AND EXCHANGE BOARD.

12 shares Ophir at $1690 per foot, Saturday.
36 do Chollar at $310 per foot.
40 do Dancy at $110 per foot, s 30.
20 do North Potosi at $42½.
20 do North Potosi at 44.
15 do North Potosi at 43.
22 do North Potosi at 43, r w.
20 do North Potosi at 44, b 30.
30 do North Potosi at 45, b 30.
5 do North Potosi at 42.
15 do Real del Monte at $41.
20 do Real del Monte at 41, r w.
30 do North American at $93, b 30.
10 do North American at 98, s 60.
40 do North American at 102, s 60.
5 do North American at 103.
50 do North American at 102½.
10 do North American at 101, s 30.
20 do North American at 102, s 30.
20 do North American at 97, s 60.
40 do North American at 102.
40 do South American at $25, r w.
40 do Lady Bryan at $50.
20 do Lady Bryan at 52, b 30.
100 do Lady Bryan at 49, r w.
10 do Lady Bryan at 47½, s 30.
30 do Lady Bryan at 51, b 30.
10 do Lady Bryan at 50, b 30.
10 do Lady Bryan at 52½, b 30.
10 do Lady Bryan at 48½, r w.
10 do Lady Bryan at 48, s 30.
20 do Lady Bryan at 48, r w.
150 do Lady Bryan at 47½, s 30.
10 do Lady Bryan at 50½, b 30.
20 do Lady Bryan at 50, b 30.
30 do Lady Bryan, at 49, b 30.
10 do Lady Bryan at 47, s 30.
70 do Lady Bryan at 47, r w.
20 do Lady Bryan at 46, s 30.
20 do Lady Bryan at 49, h 30.
10 do Lady Bryan at 46½, s 30.
20 do Lady Bryan at 47, r w.
10 do Lady Bryan at 48, h 10.
10 do Baltimore American at $41, b 30.
20 do Seneca at $13
15 do Bullion, G. H., at $75.
10 do Central America at $6.
5 do Burning Moscow at $100, s 3.
90 do Burning Moscow at 100.
10 do Uncle Sam, F. D., at at $6.
10 do Uncle Sam, F. D., at 5.
10 do... Melones at $60.
10 do Pride of the West at 86.
8 do Blue Ledge at $17.
5 do Blue Ledge at 18.
10 do Nevada, J. G., at $227½, b 30.
5 do Nevada, J. G., at 215, s 30.
10 do Nevada, J. G., at 230, b 30.

AFTERNOON SESSION.

3 do Savage at $2510 per foot.
20 do Daney at $120 per foot.
28 do Chollar at $300 per foot.
20 do Chollar at 300 per foot, s 3.
60 do North American at $101.
20 do Lady Bryan at $46.
20 do Lady Bryan at 55, s 30.
20 do Lady Bryan at 47, b 30.
20 do Lady Bryan at 45½.
10 do Lady Bryan at 46.
10 do Lady Bryan at 47, b 30.
20 do Lady Bryan at 46, r w.
20 do Lady Bryan at 46.
10 do Lady Bryan at 43, s 60.
20 do De Soto at $45.
10 do North Potosi at $44.
7 do North Potosi at 42½.
15 do South American at $25¼.
25 do Blue Ledge at at $15, s 30.
10 do Seneca at $17.
5 do Real del Monte at $42.

PACIFIC BOARD OF BROKERS.

65 do Lady Bryan at $50.
30 do Lady Bryan at 50, r w.
40 do Lady Bryan at 50, 1 d.
10 do Lady Bryan at 47.
10 do Lady Bryan at 47, s 10.
30 do Lady Bryan at 48, s 10.
25 do Lady Bryan at 47½.
15 do Lady Bryan at 48½, b 5.
10 do Lady Bryan at 48½.
20 do Lady Bryan at 45, s 60.
10 do Lady Bryan at 48, s 10.
10 do Lady Bryan at 44, s 60.
10 do De Soto at 47½.
30 do De Soto at 50.
10 do De Soto at 50, r w.
10 do De Soto at 50, b 2.
10 do De Soto at 49½.
16 shares De Soto at 52, b 30.
45 do Real del Monte at $42.
40 do Real del Monte at 42½.
20 do Real del Monte at 40, s 30.
30 do Real del Monte at 42½, r w.
5 do Real del Monte at 42½, 1 d.
10 do Wide West at $18¾.
10 do Wide West at 19.
20 do Silver Hill at $10.
30 do Central America at $5.
10 do Central America at 7½, b 30.
20 do Baltimore American at $39, r w,
10 do South American $24.
5 do Burning Moscow at $100.
12 do Burning Moscow at 99.
10 do Crockett at at $16, b 60.
10 do Michigan, G. H , at $22.

STOCK EXCHANGE.

10 do Real del Monte at $42.
2 do Real del Monte at 43½.
10 do Real del Monte at 41¾.
5 do Real del Monte at 42½.
2 do Real del Monte at 43.
10 do Franco-American at $3.
10 do Original Hawkeye at $55½.
02 do Dayton, E., at $1.
15 do Union, R. D., at $3.
30 do Gold Canon at $23½.
10 do Lady Bryan at $49½.
10 do Lady Bryan at 48.
20 do Lady Bryan at 47¾.
20 do Lady Bryan at 47.
10 do Lady Bryan at 46.
10 do Lady Bryan at 46¾.
10 do Lady Bryan at 46¾.
5 do Patrolina, Mex., at $10¼.
40 do Lafayette, V., at 50c.
5 do Caledonia Tunnel at $25¼.
10 do Caledonia Tunnel at $26.
5 do Harmon at $34.

CITY STOCK AND EXCHANGE BOARD OF BROKERS.

2½ do Potosi at $1025 per foot.
24 do Central No. 2 at $325 per foot, b, 30, n d.
12 do Ophir at $1650 per foot.
5 do Florida, R. R., at $25.
10 do Buckeye at $21, h 30.
10 do Buckeye at 20½, b 30.
5 do Conquered at $23¾.
5 do Real del Monte at $41.

S. F. Stock and Exchange Bd. sales....$136,967 00
Pacific Board of Brokers' sales..... 26,830 50
Stock Exchange sales..... 7,420 00
City Stock & Exchange sales, ... 43,030 00

Total sales of the day by all Boards,.. 214,247 50

Thursday, March 17.

S. F. STOCK AND EXCHANGE BOARD.

36 shares Ophir at $1635 per foot.
3 do Savage at $2525 per foot.
40 do Daney at $112½ per foot.
12 do Daney at 119 per foot.
20 do Dancy at 105 per foot.
40 do Dancy at 105 per foot, r w.
84 do Chollar at $350 per foot.
1 do Best & Belcher at $750 per foot.
50 do North American at $100.
10 do North American at 96, s 30.
20 do North American at 97.
30 do North American at 97, r w.
20 do North American at 95.
5 do North American at 90, s 60.
10 do North American at 90, s 30.
85 do Lady Bryan at $42.
20 do Lady Bryan at 41, r w.
45 do Lady Bryan at 41.
40 do Lady Bryan at 41½, b 3.
165 do Lady Bryan at 41, r w.
30 do Lady Bryan at 40.
50 do Lady Bryan at 40¾, s 10.
25 do Lady Bryan, at 40½.
45 do Lady Bryan at 42¾, b 30.
5 do North Potosi at 43.
10 do North Potosi at 47, b 30.
20 do North Potosi at 48, b 30.
10 do Burning Moscow at $105, h 30.
20 do Burning Moscow at 100, s 30.
5 do Burning Moscow at 102½.
20 do Burning Moscow at 102½, h 30.
5 do Burning Moscow at 102, b 30.
5 do Nevada, J. G., at $225, b 30,
10 do Nevada, J. G., at 215, s 5.
10 do Nevada, J. G., at 210, s 30.
5 do Nevada, J. G., at 220, b 30.
20 do Bullion, G. H., at $75.
10 do Baltimore American at $41, b 30.
10 do Real del Monte at $45.
45 do Real del Monte at 44.
10 do De Soto at $46.
15 do Melones at $50.

AFTERNOON SESSION.

4 do Gould & Curry at $4625 per foot.
32 do Dancy at $100 per foot.
40 do Daney at 100, s 30.
2 do Melones at $50.
5 do Central American at $5.
10 do North American at $92½.
10 do North American at 89, s 30.
5 do North American at 91.
40 do North American at 90, r w.
10 do North American at 87½, s 30.
45 do Real del Monte at $45.
10 do Lady Bryan at $40, s 30.
170 do Lady Bryan at 40.
35 do Lady Bryan at 42, b 30.
15 do Lady Bryan at 42½, b 30.
40 do Lady Bryan at 42, b 15.
35 do Lady Bryan at 41.
10 do Lady Bryan at 43, b 30.
20 do Lady Bryan at 42½, b 30.
60 do Lady Bryan at 41, s 30
10 do Nevada, J. G., at $220, b 30.
50 do Uncle Sam, F. D., at $5.
50 do Caledonia Tunnel at $27.
5 do Caledonia Tunnel at 25½, b 30.
10 do Caledonia Tunnel at 26.
5 do North Potosi at $44.
5 do North Potosi at 43½.
20 do Blue Ledge at $18¾.
20 do Burning Moscow at 110, b 30.
5 do Burning Moscow at 104.
10 do Baltimore Amerscan at $40, b 30.
5 do Pride of the West at $86.

STOCK EXCUANGE.

20 do Adriatic at $9.
40 do Adriatic at $8.
5 do Real del Monte at $47½, b 30.
15 do Real del Monte at 47, b 30.
25 do Real del Monte at 44.
5 do Real del Monte at 46.
10 do Real del Monte at 46 50.
5 do Real del Monte at 48 50.
5 do Real del Monte at 46¾.
10 do Harmon at $37, b 30.
100 do Josephine at $1.
20 do Caledonia Tunnel at $28.
20 do Caledonia Tunnel at 30.
20 do Caledonia Tunnel at 30 50.
10 do Caledonia Tunnel at 30 25.
10 do Wide West at $20.
20 do Lady Bryan at $40.
40 do Lafayette, G. H., at $15.
10 do Lafayette, G. H., at $14.
5 do Independent, G. H., at $30.

PACIFIC BOARD OF BROKERS.

20 do Lady Bryan at at 44.
10 do Lady Bryan at 43 50.
20 do Lady Bryan at 43 50, r w.
10 do Lady Bryan at 43 50, 2 d.
10 do Lady Bryan at 43¾.
25 do Lady Bryan at 43, s 3.

25 do Lady Bryan at 43.
25 do Lady Bryan at 43, s 5.
10 do Lady Bryan at 43 50, b 3.
10 do Lady Bryan at 44, b 10.
25 do Lady Bryan at 44 50, 10 ds.
10 do Lady Bryan at 42 50, s 15.
10 do Lady Bryan at 43 50.
20 do Lady Bryan at 43, 1 d.
20 do Lady Bryan at 43, s 30.
10 do Lady Bryan at 51, b 60.
20 do Lady Bryan at 42 50, s 30.
30 do Lady Bryan at 44, b 10.
55 do Lady Bryan at 40.
10 do Lady Bryan at 40, r w.
10 do Lady Bryan at 39 50.
10 do Lady Bryan at 40½.
10 do Lady Bryan at 39 50.
30 do Lady Bryan at 39 50, s 10.
10 do Lady Bryan at 42 50, b 30.
20 do Lady Bryan at 41, b 5.
20 do Lady Bryan at 43, b 30.
20 do Lady Bryan at 40 50.
10 do Real del Monte at 43 50.
10 do Real del Monte at 43.
20 do Real del Monte at 45.
10 do Real del Monte at 45 50, 3 d.
10 do Real del Monte at 45¾.
20 do Daney at $110 per foot, s 30,
20 do Daney at 109 per foot, s 30.
10 do Caledonia Tunnel at $26 50.
20 do Caledonia Tunnel at 27 50, r w.
20 do Caledonia Tunnel at 27 50.
5 do Caledonia Tunnel at 30, b 30.
5 do Caledonia Tunnel at 30.
10 do Caledonia Tunnel at 33 50, b 30.
10 do Blue Ledge at $18.
30 do Crocket Consolidated at $10.
20 do Crocket Consolidated at 10, r w.
16 do Union Russ at $3.
5 do North American at $95.
10 do Burning Moscow at $100.

S. F. Stock and Exchange Bd. sales.....	$200,700 00
Stock Exchange sales.....	25,277 75
Pacific Board of Brokers' sales.....	23,151 00
Total sales of the day, by both Bds,...	249,128 75

Friday, March 18.

S. F. AND EXCHANGE BOARD.

12 shares Ophir at $1630 per foot.
36 do Ophir at 1630 per foot, r w.
60 do Ophir at 1675 per foot, b 30.
4 do Ophir at $390.
20 do Daney at $105.
40 do Daney at 105, 30.
15 do Sierra Nevada at $75.
30 do North Potosi at $43.
30 do North Potosi at 44.
20 do North Potosi at 46, b 30.
2 do North Potosi at 46.
12 do Imperial at $157 50.
35 do Caledonia Tunnel at $26 50.
15 do Caledonia Tunnel at $27.
10 do Michigan, G. H., $20.
35 do Lady Bryan at $41.
100 do Lady Bryan at 41, r w.
100 do Lady Bryan at 40, s 30.
35 do Lady Bryan at 42, b 30.
50 do Lady Bryan at 41, b 3.
50 do Lady Bryan at 29, s 30.
10 do Lady Bryan at 42 50.
100 do Lafayette, G. H., a $513.
10 do Nevada, J. G., at $210, s 15.
10 do Nevada, J. G., at 205.
20 do Blue Ledge at $20, b 30.
5 do Blue Ledge at 18 50.
2 do Burning Moscow at $103.
10 do North American at $89.
30 do North American at 87 50, s 30
10 do North American at 87.
35 do North American at 91, b 30.
10 do North American at 88.
30 do North American at 85, s 60.
10 do North American at 85, s 30.

AFTERNOON SESSION.

15 shares Nevada, J. G., at $215. b 30.
10 do Buckeye at $16.
30 do Lady Bryan at $41.
20 do Lady Bryan at 43, b 30.
10 do Lady Bryan at 43 50, b 30.
10 do Lady Bryan at 42
30 do Lady Bryan at 45, b 30.
20 do Lady Bryan at 45.
10 do Lady Bryan at 46, b 30.
20 do Lady Bryan at 44 50, r w.
50 do Lady Bryan at 46 30, s 30.
100 do Lady Bryan at 44, s 30.
10 do Lady Bryan at 47, b 30.
10 do Lady Bryan at 47 50, b 30.
30 do Lady Bryan at 45.
20 do Lady Bryan at 45, s 30.
10 do Lady Bryan at 45 50, s 30.
10 do Lady Boyan at 46, s 30.
20 do Lady Bryan at 48, b 30.
30 do Lady Bryan at 46.
10 do Lady Bryan at 46 50.
30 do Lady Bryan at 46, s 30.
30 do Lady Bryan at 45 50, b 30.
70 do Lady Bryan at 49, b 30.
30 do Lady Bryan at 47.
20 do Lady Bryan at 49 50, s 30.
6 do North American at $88, r w.
20 do North American at 90, s 30.
10 do Baltic at $150, b 30.
30 do Real del Monte at $45.
10 do Seneca at $20.
5 do Pride of the West at $86.
5 do Yellow Jacket at $1,100.
30 do Caledonia Tunnel at $26 50.
20 do Caledonia Tunnel at 25.
10 do Caledonia Tunnel at 25, s 30.
3 do Chollar at $300.
4 do Wide West at $22 50.
10 do Melones at $50, b 30.
5 do Daney at $106.

PACIFIC BOARD OF BROKERS.

4 shares Segregated Crown Point at $750 per 5t.
10 do Real del Monte at $45.
10 do Real del Monte at 45 50.
50 do Real del Monte at 45 50, n d.
5 do Lady Bryan at $41.
10 do Lady Bryan at 42, b 15.
5 do Lady Bryan at 40 50.
80 do Lady Bryan at 40.
10 do Lady Bryan at 45, b 30.
20 do Lady Bryan at 40, s 10.
50 do Lady Bryan at 40, s 30.
10 no Lady Bryan at 4350, b 30.
10 do Lady Bryan at 41, b 3.
5 do Lady Bryan at 40 50, 3 d.
10 do Lady Bryan at 45, b 30, n d.
35 do Lady Bryan at 43, b 30.
10 do Lady Bryan at 40 50.
10 do Lady Bryan at 41, b 10.
20 do Caledonia Tunnel at 32 50, b 30.
10 do Crockett at $8 50.
10 do Crockett at 9 50.
10 do Blue Ledge at $18.
20 do Lafayette, G. H., at $13.
10 do Silver Hill at $8.
25 do Santa Rosa at $7 50.
25 do Santa Rosa at 8 50, b 30 n d.
10 do Diamond, (copper,) at $9.
20 do Baltimore American at $48, 4 d.

STOCK EXCHANGE.

10 do Crockett at $7 50.
35 do Crockett at 8.
8 do Crockett at 8¼.
5 do Crockett at 8 50.
10 do Crockett at 8 75.
100 ko Crockett at 9, b 30.
20 do Caledonia Tunnel at $28.
20 do Caledonia Tunnel 28 50.
10 do Caledonia Tunnel at 27 50.
50 do Lady Bryan at $40, b 30.
30 do Lady Bryan at 40.
25 do Harmon at $35.
10 do Real del Monte at $46 50.
5 do Real del Monte at 47.
5 do Real del Monte at 45 50.
15 do Cicero, R. R., at $35.
5 do Cicero, R. R., at 30.
25 do Clement, Va., at $5.

S. F. Stock and Exchange Bd. sales....	$295,670 50
Sales by the Pacific Board of Brokers.	17,400 00
Sales by the Stock Exchange	9,378 50
Total sales of the day, by all Boards,.	322,449 00
Total sales of the week, by all Boards	$1,567,009 00

Legal Tender Notes.

San Francisco, Friday March 18th...65¼ per cent.

Gold in New York.

Friday March 11.....163@165.
Saturday, March 12.....161@162.
Monday March 14 .....160½@160⅝.
Tuesday March 15 .....160⅜.
Wednesday, March 16.....160½.
Thursday March 11.....160⅜.

The Law for Publishing Legal Mining Notices.

An utterly erroneous opinion having been engendered in the minds of some (through misrepresentations and interested motives of others), that the laws of this State technically require the publication of mining notices to be be made in a DAILY paper, we take occasion to quote the following positive passage concerning the publication of mining notices, from the latest statutes passed by our Legislature on the subject, March 5th, 1861, which has not since been altered or amended:—

"Notice of each such call, or assessment, shall be given to the respective stockholders personally, or shall be published once a week for at least four weeks in some newspaper published at the point designated as the principal place of business of the corporation, and also in some newspaper published nearest to the point where said mining operations are being carried on. If, after such notice has been given, any stockholder shall make default in the payment of such call, or assessment, as to the shares of stock held by him, so many of such shares may be sold as will be necessary for the payment of the call, or assessment, on the shares held by him. The sale of said shares shall be made as prescribed in the by-laws of the company; *provided*, that no sale shall be made except at public auction to the highest bidder, after a published notice of thirty days, PUBLISHED AS ABOVE DIRECTED; and that at such sale the person who will agree to pay the call, or assessment, so due, together with the expense of advertisement and the other expenses of the sale for the smallest number of whole shares, shall be deemed the highest bidder."—[Passed March 5th, 1861—Stat. 1861, p. 14.

The above is indeed plain, and we hold ourselves responsible for the assertion that a weekly issue of a mining notice is as valid as that of a daily. By publication in the MINING AND SCIENTIFIC PRESS, a wide circulation is given to notices, particularly among miners and shareholders in this city and throughout the State and Nevada Territory. A weekly publication is also secured at a material saving in cost to shareholders.

No. 11—MARCH 12.—Earthquakes—Their Causes and Effects; Ventilation of Mines; Communications—The Great Desert and Its Mines, No. 2; San Luis Obispo; Virginia City—Her Mines, Growth and Future Prospects; Jordan Creek; Churchill Mines; About Cloves; Mechanical Department—Railroad Switches and Signals, Steam and Electro-Magnetic Power, Steel Boilers; Remarkable Instance; Patent Department—Improvement on the Arastra, New Amalgamator; Mining Gossip; Reese River—A Comparative Review of Various Districts; The Mining Share Market; Editorials; Incorporations; Full Reports for the week of the San Francisco Stock Market; Washoe Stock Report; Chippings; Etc.

NO GOLD MINES IN UTAH.—The *Deseret News* of March 2d contradicts the report heretofore circulated, in regard to the discovery of rich gold mines in Utah Territory. It says there are no gold or silver mines there, and that persons who go there for the purpose of digging for gold, had better take plenty of gold and provisions with them. Other wise they will be liable to suffer and starve.

Record of New Incorporations

The following is a record of the names of the companies, location of the claims, and the names of the Trustees mentioned in the articles of incorporation, filed in the County Clerk's office, in this city, since our last report:—

Golden Wedge G. & S. M. Co., Mono county; W. B. King, T. H. Soper, J. Minn, T. C. Soper, R. J. Morrison.

Whitworth M. Co., El Dorado county, Cal.; James W. Cullen, G. W. Kluney, G. W. Paget, John E. Kincaid, Benj. Dore.

Fortune S. M. Co., Lander county, N. T.; R. Chenery, A. D. Meacham, B. W. Hathaway, S. Wenbain, John F. Cassell.

Cortez-American S. M. Co., Lander county, N. T.; R. Chenery, A. D. Meacham, B. W. Hathaway, S. Wenbain, S. T. King.

Mendocino G. & S. M. Co. No. 1, Amador county; Thomas Brown, John Agrell, James Wilson, T. W. Leggett, E. H. Errickson.

Yosemite Consolidated M. Co., Lander county, N. T.; P. Brandon, W. M. Siddons, John Conner, Robert Stuart, R. L. Bampton.

Eyla G. & S. M. Co., Lander county, N. T., Christian Rees, A. L. Barnes, L. Archer.

Cameron M. Co., Humboldt county, N. T.; Edward Woodruff, I. Cullman, James T. Boyd.

Gendale Consolidated G. & S. M. Co., Lander county, N. T.; J. D. P. Teller, A. P. Cox, G. B. Merrill, James E. Rowe, A. J. Kensey.

Yellow Monster G. & S. M. Co., Tulare county, Cal.; A. Wiugard, E. C. McComb, R. H. Waller, Jacob Browning, S. H. Squire.

Monte Cristo Copper M. Co., Chimawavo. Cal.; S. A. Hall, A. J. Chase, G. B. Bryant, Calch Fay.

NEVADA TERRITORY.

We gather from the Territorial papers the following names of mining companies which have recently filed papers of Incorporation in Nevada Territory:—

Fair Play G. & S. M. Co., Indian Spring district; Samuel J. Eddy, Wm. E. Beauchamp, A. W. Coleman.

Nevada G., S. & C. M. Co.; Isaac R. Wells, John McDonnell, L. W. Barber.

Winamack G., S, & C. M. Co.; Same as above.

Gross Lambert G. & S. M. Co., Indian Spring district; W. McKay, F. L. Grosvenor, C. A. Witherell, G. W. Hancock.

Superior G. & S. M. & M. Co.; Indian Spring district; F. B. Sanborn, D. A. Armstrong, D. S. Tibbets.

Cumberland Coal M. Co.; Wm. H. Rhodes, N. J. Bird, H. Huguet, Robert Packard, B. Lamolle.

Columbia G. & S. M. Co., Virginia district; D. W. Perley, G. W. M. Cowles, Frank Ganahl, C. E. DeLong, G. A. King.

Mount Washington G. & S. M. Co., Gold Hill district; W. H. Beegan, Levi Foss, E. Palmer.

Gen. Banks and Grey Eagle Consolidated G. & S. M. Co., Blue Sulphur Springs district; J. F. Dollier, J. Fox, Charles Grant.

Arrington G. & S. M. Co., Gold Hill district; W. Arrington, G. W. Lewis, O. H. Platt, W. B. Hickok, R. L. Corbett.

Levant S. M. Co., Reese River district; R. W. Dunleary, William Browne, M. A. Baldwin.

Washington G. & S. M. Co., Indian Springs district; A. H. Bisbee, A. B. P. Stanwurd, Isaac Lembut, T. J. Patten, E. Chandler.

Merrion G. & S. M. Co., Blue Sulphur Springs district; H. C. Brow, H. W. Vosburg, H. H. Flagg.

Garrison G. & S. M. Co., Gold Hill district; W. T. Nichols. A. J. Rhoads, Frank Healy, Henry Edgerton.

Chieftain Tunnel, Mining and Water Co., Amador district; Geo. Bonney, C. H. Dexter, C. H. Patchin, H. G. C. Schmidt, W. B. Bobinson.

Young America G. & S. M. Co., Mount Hope district; M. O. Dale, W. A. W. Dearborn, R. H. Stewart, R. Crawford, O. H. Strickland.

Gen. Marion G. & S. M. Co., Rig Creek district; Geo. Bogers, J. H. Waves, F. T. Stanford, C. Bolton, J. Fitzmaurice.

Milne Co., Reese River district; S. E. Greeley, Wm. Warner, Wm. J. Blake.

Alleghany Coal Co., Ormsby county; C. W. Goro, F. B. Horton, P. Andrieu.

Deep Red G. & S. M. Co., Blue Sulphur district; Geo. W. Delavan W. S. Moffatt, R. Thompson.

HANDSOME PATTERNS.—One of the finest set of patterns we have ever seen in this city, was shown us recently at the Golden State Iron Works, by Henry S. Smith, foreman. They are for the manufacture of the Tyler water wheels, now extensively used in the East.

H. S. Saunders & Co.,
Stock Brokers,
Members of the Stock & Exchange (1st) Board and of the Pacific Board of Brokers.
Stock Exchange Room, No. 614 Montgomery street,
12v8-m SAN FRANCISCO.

San Francisco Stock and Exchange Board.—Prices Bid and Asked.

				Saturday.		Monday.		Tuesday.		Wednesday.		Thursday.		Friday.	
WASHOE STOCKS.	FEET.	SHARES.	VAL.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.
Ophir	1,400	16,800	300	1,620	1,650	1,625	1,640	1,630	1,640	1,630	1,630	1,630	1,650	1,630	1,640
Gould & Curry	1,200	4,800	500	4,625	4,630	4,400	4,800	4,620	4,675	—	4,650	4,625	4,700	4—	4,700
Savage	800	800	2,000	—	2,675	2,300	2,450	2,600	2,875	2,500	2,700	2,505	2,575	2,500	2,515
Chollar	1,400	5,600	800	310	350	320	325	312½	312½	310	310	300	310	300	310
Potosi	1,400	2,800	500	—	1,000	850	1,600	825	1,000	700	1,400	825	1,600	900	1,050
Hale & Norcross	400	800	500	705	900	—	—	—	—	700	—	550	—	400	800
Sierra Nevada	3,000	3,000	500	70½	80	60	—	70	80	75	80	70	86	70	75
Daney	2,000	800	60	157½	160	160	—	130	145	105	120	105	110	105	107½
Burning Moscow	4,100	4,100	500	100	105	90	105	96	105	100	100	100	103	103	105
North Potosi	2,000	2,000	250	96	100	95	96	42	43	42	43½	43	44	43½	45
Charles Cany	1,800	1,800	30	—	—	—	15	—	—	—	14	—	15	5	12
Iowa	1,200	1,200	1,000	—	50	—	50	—	100	—	100	—	100	—	50
El Dorado	1,500	1,600	500	20	45	25	47½	15	60	20	—	30	45	34	37½
Norton	1,600	1,600	50	—	—	3	5	—	—	—	—	—	—	—	—
Burnside	2,800	2,800	500	—	—	—	14	—	13	10	—	—	10	10	15
Adriatic	2,700	2,700	100	—	12	9	10	—	11	—	10	—	—	—	10
Pride of the West	1,400	1,400	100	85	89	85	—	85	86	85	86	85	90	86	87
Imperial	184	4,000	500	—	—	142½	147½	—	150	—	150	110	149	145	146
Crown Point	600	1,200	100	—	—	—	—	—	—	700	1,100	700	1,100	800	1,050
Manhattan	—	—	—	—	—	—	7	—	7	—	—	—	—	—	7
Seneca	—	—	—	—	—	—	20	10	18	16	17	—	19	19	20
Mt. Davidson tun'l.	1,000	1,000	200	—	—	1	—	—	—	—	—	—	3	—	—
Caledonia Tunnel	—	—	—	25½	26½	33	34	27½	30	—	80	—	28	27½	28
Rajuez & G. Era.	4,000	4,000	300	—	75	—	70	—	70	—	—	—	70	—	75
Cedar Hill tunnel	—	1,000	100	—	—	—	—	—	—	—	—	—	—	—	1
Gold Hill Quartz Mill	—	—	—	142½	152½	—	—	—	300	—	—	—	—	—	—
ESMERALDA.															
Wide West	1,400	1,400	2,600	19	20	18	19	15	19	16	19	19	24	20	25
Antelope	1,200	1,200	500	210	250	—	230	210	220	210	300	200	220	200	215
Esmeralda	1,600	1,600	1,000	—	—	—	—	—	—	7½	—	—	—	7½	9
Real del Monte	4,400	4,400	400	52	53	55	56	42½	45	40	41	43	44	42½	45
Utah	1,600	1,600	250	—	20	14	18	12	17	—	20	—	16	—	17
Silver Hill	3,000	3,600	500	—	10	—	—	—	—	10	—	—	15	—	—
Nevada	600	1,200	250	—	—	—	—	—	—	—	—	—	—	—	—
Falls of Clyde	6,000	6,000	100	—	—	—	2	—	2	—	—	—	1½	—	—
Bamboo	600	600	500	—	—	—	—	—	—	—	50	—	45	—	55
Crockett	—	—	—	7½	16	—	17½	—	18	—	23	—	16	—	13
Federal Hope	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Jenny Lind	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
COSO.															
Josephine	9,600	4,800	2,500	—	—	—	1½	1	1¼	1	2¼	1	—	1	—
Willow Springs	2,700	2,700	100	—	2	—	2	—	4	—	2	—	2	—	—
Coso	2,600	3,600	600	—	—	—	—	—	—	—	—	—	8	—	—
COPPER.															
Napoleon	2,700	2,700	600	65	69	60	67½	50	75	60	70	67½	77½	70	80
Josephine	—	—	—	6	7	—	—	—	—	—	—	—	7	—	—
CALIFORNIA.															
Laurel Hill	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rhodes Diggings	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—
Fellowes	2,500	2,500	100	—	—	—	—	—	40	—	—	—	—	—	—
Maxwell	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rock River	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Eureka	—	—	—	33	40	30	40	30	40	—	—	30	37½	—	35
HUMBOLDT STOCKS.															
De Soto	1,980	1,980	100	45	48	42½	48	42	50	45	47½	46	50	45	50
Great Basin	—	—	—	—	1½	—	—	—	—	—	—	—	—	—	—

"CHIPPINGS."

Wonder is often expressed that the loss of life in large battles is so small. The condition of 58,000 muskets captured at Gettysburg may explain partly. Of these, 24,000 were found to be loaded, 12,000 contained two loads, and 6,000 from three to ten loads each. In numerous instances half a dozen balls were driven in ou a single charge of powder. In some cases the former possessor had reversed the usual order, placing the ball at the bottom of the barrel and powder on the top. Not unfrequently several paper cartridges were packed above each other without being torn or broken.

There has been no rain in Hungary for nearly two years. As a consequence, the crops have failed, and the flocks and herds are dying, disease having followed the drougth. A correspondent of a London paper estimates the loss at sixty million dollars.

The Stockton *Independent* says that many farmers, in consequence of the lack of feed, and the poor prospect of getting rain, are selecting locations in the tules for their loose stock, to keep them from dying.

The citizens of Nevada are making a move for a branch railroad to connect with the great Pacific road, which is fast working its way mountain-ward. It will pass within about ten miles of that city.

The debt of England is four thousand millions of dollars. Our debt will figure up, perhaps, three thousand millions before we are through with the rebellion. England has au island to tax—we have a continent.

A pair of andirons made of iron, but in the elaborate Italian style of the seventeenth century, were sold at auction in Paris, recently, for 7,000f—$1,400 in gold.

The Monterey *Gazette* says very few people in that county will be able to pay their taxes in November next, and are petitioning the Legislature for an extension of the time.

Several families in Sutter county are preparing to leave for Boise river. The Marysville *Appeal* thinks that if the dry weather continues it will drive thousands of people out of this State.

The ocean is the throbbing heart of the universe, and its every wave a mound over those who have no grave.

The Grand Jury of Storey county, N. T., have found a bill of indictment for murder in the second degree against Captain Johnson for the murder of Horace Smith.

Five hundred thousand people walk the streets of Paris by night, and all night omnibuses are to be established for their accommodation.

General Cass is said to be so feeble that he cannot live much longer. He is in his eighty-first year.

The knitting mills at Seneca Falls, New York, now turn out ten thousand pairs of army hose a day.

A man of regular habits is Mr. Lawrence of Falmouth. He has mowed the same field for seventy successive years.

Eighty-one passengers recently arrived in Virginia City, from California, in one day, by stage alone.

A Parisian doctor has discovered that brandy or rum is the best antidote for chloroform, and that it will at once counteract the effects of an overdose.

An exchange truly says there is no book so cheap as a new-paper; none so interesting, because it consists of a variety measured out in suitable portions as to time and quantity. Because new every day in the week, it invites to a habit of reading, and affords an easy and agreeable means of acquiring knowledge, so essential to the individual and the community. It causes many to pass away hours pleasantly and profitably, which would otherwise be spent in idleness and mischief.

Papers Wanted.—Twenty-five cents per copy will be paid for No. 3 of Vol. 8, (dated Jan. 16, 1864) of the Mining and Scientific Press." Send them to this Office.

Professor Whitney's Lecture.—Extra copies of the Mining and Scientific Press of February 6th, 1864, containing the lecture of Prof. J. D. Whitney, (State Geologist,) on "Mining and Its Relations to Civilization and Progress," can be obtained by calling at this office.

Pacific Mail Steamship Company.

THE FOLLOWING STEAMSHIPS WILL BE DESPATCHED FROM SAN FRANCISCO IN THE MONTH OF MAROH, 1864.

March, 3—GOLDEN CITY.....R. H. Pearson, Commander.
March, 12—ORIZABA.....E. S. Fransworth, Commander.
March, 23—CONSTITUTION,.....J. T. Watkins, Commander.

From Folsom street Wharf, at nine o'clock A. M., punctually,

FOR PANAMA.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company.

A. B. FORBES, Agent P. M. S. Co.,
j1 Cor. Sacramento and Leidesdorff Sts., San Francisco

Miscellaneous Advertisements.

MINERS' FOUNDRY
—AND—
MACHINE WORKS,

First street, between Howard and Folsom streets,
SAN FRANCISCO.

EVERY DESCRIPTION OF IRON AND BRASS MACHINERY, the **Best** and **Most Economical**, manufactured in the State of California, will be furnished with dispatch at the Miners' Foundry and Machine Works, as:

Steam Engines and Boilers, Flour, Saw and Quartz mill machinery, Mining Pumps, Amalgamators, Retorts, Etc., Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections, designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities will be afforded ample facilities, free of cost.

All parties desiring accurate and highly finished drawings and Superior Machinery, at most reasonable rates are cordially invited to call before contracting elsewhere.

HOWLAND, ANGEL & KING.
San Francisco, February 23, 1863. tf.

PALMER, HANSCOM & CO.,
GOLDEN STATE IRON WORKS,

No. 19, First Street, San Francisco,

Furnish Castings and Machinery of all kinds,

Also Genuine White Iron Shoes and Dies.

PALMER, HANSCOM & CO.

To Quartz Miners.

KNOX'S IMPROVED AMALGAMATING PAN
WITH PALMER'S PATENT STEAM CHEST.

THE ABOVE COMBINATION SECURES THE MOST COMPLETE amalgamation of the precious metals of any process now known. By it steam is introduced in the most effective and economical manner, while it is peculiarly adapted to the catching of floating gold and silver, known to be otherwise lost. Made exclusively by

PALMER, HANSCOM & CO.,
Golden State Iron Works,
Nos. 19 and 21 First Street, San Francisco.

The public are informed that Letters Patent have been granted the undersigned upon Steam Chest False Bottoms for the inside of Amalgamating Pans or Tubs, and are cautioned against making, buying, using or selling the same without his consent.

tf W. A. PALMER.

Sacramento Iron Works.

I STREET, BETWEEN FIRST AND SECOND STREETS, SACRAMENTO.

GOSS & LOMBARD.....Proprietors.

MANUFACTURERS OF STEAM ENGINES, MACHINERY FOR Saw, Flour and Quartz Mills, Horse Powers, Windmills, Car Wheels, Suction and Force Pumps, Cast Iron Riffles and all kinds of House Castings, at reduced prices. Gas pipe of all sizes, and all kinds of Brass and Iron Steam Fittings, with Hemp and Rubber Packing, constantly on hand. Wrought Iron Work and all kinds of Brass Castings done to order.

We are the Sole Agents in this State for the celebrated Worthington Pump, an assortment of which we keep constantly on hand. We have just received from the East a fine assortment of Cast Iron Fence Patterns, suitable for yards, balconies, cemetery lots or graves. We shall continue to do our work in the best manner and at the LOWEST CASH PRICES, hoping thereby to receive a just share of public patronage. I-3m

JOHN P. GALLAGHER..... .....JOSEPH H. WEED.

GALLAGHER & WEED,
BRASS AND BELL FOUNDRY
And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING, DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, MADE to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks, also brass Padlocks and Shop Locks of various patterns, on hand and made to order.

☞ Particular attention given to casting Rudder Braces and Ship Work in general.

☞ All Jobs promptly attended to.—Prices moderate. ☜
No. 125 First Street, opposite Minna, next door to Pacific Foundry.
[Removed from Oregon street, between Front and Davis.]
j2tf

LEWIS COFFEY. J. S. RISDON.

LEWIS COFFEY & RISDON,
Steam Boiler & Sheet Iron Works.

THE ONLY EXCLUSIVELY BOILER MAKING ESTABLISHment on the Pacific Coast, owned and conducted by Practical Boiler Makers. All orders for New Work, the repairing of Old Work, executed as ordered, and warranted as to quality.

Old Stand, corner Hush and Market Streets. Opposite Oriental Hotel, San Francisco, Cal.

Vulcan Iron Works Company.

P. Torquet,.....Manager.
Steam Engine Builders and Boiler Makers,
Iron Founders and General Engineers,

PUMPING, HOISTING, MINING AND QUARTZ-CRUSHING Machinery. Shoes and Dies of the hardest iron. Russia Iron Punched Screens, Steamboat Machinery, Saw, Flour and Sugar Mills. High and Low Pressure Boilers of all styles. Jonval and other Turbine Water Wheels with latest improvements.

tf No. 187 & 139 First Street San Francisco.

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,
BOILER MAKERS AND SHEET IRON WORKERS,

N. B. All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission, between Beal and Fremont Sts., San Francisco.
fy29-tf

WANTED,
Gold Quartz suitable for Cutting Jewelry.

By FRONTIER & DEVIERCY.
437 Pine Street, San Francisco.
au31tf.

A. S. HALLIDIE & CO.,
WIRE ROPE MANUFACTURERS.

Established 1857.

Office, No. 412 Clay street—Works, North Beach,
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After seven years' use throughout the State of California and the Pacific Coast generally, we can confidently recommend Wire Rope for

HOISTING FROM DEEP MINES,
GUY ROPES FOR DERRICKS, &c.,
STANDING RIGGING FOR SHIPS,
FERRY ROPES FOR FERRIES,
SASH CORD FOR WINDOW SASHES,
ETC., ETC., ETC., ETC., ETC., ETC.

It being Cheaper, Stronger, Lighter and More Durable than any other kind of Rope, and not stretching or shrinking by atmospheric changes.

MINING COMPANIES, by using it for Hoisting Purposes, save 66 per cent. on their outlay for other ropes.

Wire Fencing Strand,

For fencing large parcels of land—permanently, economically and expeditiously. Manufactured in any length desired.

Pamphlets containing weight, strength and price, forwarded free application to the Manufacturers.

WIRE SUSPENSION BRIDGES AND AQUEDUCTS

We are prepared to erect, of any span and capacity, and take pleasure in referring those interested to the many structures of this kind built by us in California, Oregon and British Columbia, of span from 200 to 400 feet. 3-3m

Must be seen to be Appreciated!

THE FLORENCE!

A GREAT IMPROVEMENT!

This Celebrated
NEW SEWING MACHINE
IS ACKNOWLEDGED TO BE
THE BEST IN THE WORLD!

IT MAKES FOUR DISTINCT STITCHES!
IT FEEDS THE WORK EITHER WAY!
WILL SEW OVER THE HEAVIEST SEAMS,
WITHOUT CHANGE OF TENSION!
IT SELDOM, IF EVER, DROPS A STITCH!
IT SEWS WITH SILK OR COTTON THREAD EQUALLY WELL!
IT RUNS LIGHTLY, SEWS RAPIDLY AND IS ALMOST NOISELESS!
IT DOES THE HEAVIEST OR FINEST WORK WITH EQUAL FACILITY!
IT MAKES A STICH ALIKE ON BOTH SIDES OF THE FABRIC, USING ONLY HALF THE QUANTITY OF THREAD NECESSARY FOR THE OLD FASHIONED CHAIN-STICH MACHINES!

WHILE IT POSSESSES ALL THE GOOD QUALITIES OF others, and has many advantages over any and all of them, the FLORENCE is sold at corresponding prices with other first-class Machines. We
WARRANT EVERY MACHINE
To be all that we claim for it, and will give a WRITTEN WARRANTY if required.

AGENTS WANTED in all the principal cities and towns on the Pacific coast.

Send for Circulars and samples of sewing.

DON'T BUY A SEWING MACHINE UNTIL
YOU HAVE
SEEN "THE FLORENCE!"

SAMUEL HILL, General Agent.
111 Montgomery street, between Bush and Sutter, San Francisco, California. j2-3m

WHEELER'S
Amalgamating and Separating Pans

IT IS ACKNOWLEDGED BY ALL WHO HAVE EXAMINED THE principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.

The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metal arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the triturating, this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.

Where these Pans have been introduced and operated by the side of others on sands from the same vat, the Wheeler Pans have uniformly gained a large percentage of metals, over its competitors, as well as a still larger percentage in the amount of work performed.

*** These Pans may be seen in daily operation at the Miners' Foundry, on First street, San Francisco, where all interested are invited to call and examine for themselves.

no16-tf ZENAS WHEELER.

To Quartz Miners.

ALL PERSONS INTERESTED IN MINING MACHINERY ARE invited to call at Donahue's Foundry and examine my improved Amalgamator. It is unquestionably superior to anything now known for amalgamating Silver and Gold. It works 1000 pounds at a time, and will amalgamate over three tons a day. By the motion of the revolving muller, the pulp is drawn through its centre and passes under it, between the grinding surfaces, to the circumference; from whence it passes again over the muller to the centre, through the holes and between the grinding surface to the circumference as before. Thus a constant circulation of the pulp is kept up, bringing the particles of ore again and again under the muller, and reducing the whole mass to an impalpable powder.

No quicksilver lies between the surfaces to be ground, but at the circumference and centre of the pan where the metal must pass through it as the pulp circulates.

A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S. Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.
sep21

It is Impossible for editors to know ALL the merits and demerits of their correspondence, consequently the reader must not receive the opinions of our contributors as our own. Intelligent discussion is invited upon all sides, and the evidence of any error upon our part will be received in friendship, and treated with respect.

Worth Considering.—Advertising has proved the medium of success to many of the most prominent business men of the world. Merchants, Inventors, Builders, Patentees, Manufacturers, Foundrymen, Machinists, and, in fact, all who wish to call the particular attention of the Mining, Professional, Mechanical and Industrial members of the community to their business, should not fail to advertise in the MINING AND SCIENTIFIC PRESS. The circulation of the paper is extensive, and has a wide range, reaching the most intelligent readers in every mining settlement of importance on the coast. A large number of copies are also sent East. Our terms are reasonable. "Live and help live" we believe to be a sensible motto.

To Druggists and all Prescribing for Neuralgic AND NERVOUS CASES.—Your attention is called particularly to the efficacy of WATTS' NERVOUS ANTIDOTE for the above. Feelings of humanity, independent of pecuniary considerations, would prompt you to recommend it in all cases of Neuralgic Pains, Face Ache, from defective teeth, and the General Wasting Away and Debility of the Nervous System, if you could have the assurance that this was what it is purported to be—THE GREAT RELIABLE TRANQUILIZER AND RESTORER OF THE SYSTEM. It has been repeatedly prescribed in cases of excessive drinking, on the verge of Delirium Tremens, and even while laboring under its distressing influence, with astonishing results. It contains no preparation of Opium or Valerian, and is never accompanied with the unpleasant sensation always experienced after taking successive doses of them. It is also the best Soothing Syrup in use. Patients have taken Watts' Nervous Antidote many months in succession, and experienced no unpleasant effect whatever—while the same continued use of many other popular remedies has completely shattered the system.

For sale, Wholesale and Retail, by SAMUEL ADAMS, U. S. Drug Store, corner of Pine and Kearny Streets, San Francisco. 6v8-2m

MINERS WANTED

By the Mariposa Company.

WAGES; $3 25 A DAY. BOARD, 85cts. A DAY.

Apply at the Mines, Mariposa County.

Bear Valley, March 1st. 1864. 10v8-1m

FREDERICK MANSELL.

Mechanical & Architectural Draughtsman,

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ASSAYER OF ORES, MINERALS AND METALS,

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WORKING ASSAYS MADE ON LARGE OR SMALL QUANTITIES of Ore by the most approved methods, and instructions regarding the reduction of them, in general, given. Assaying of Ores, etc., taught, either by the wet or dry method. Silver Ores reduced by means of Electricity.

☞ Terms moderate, and all results guaranteed. 11v8-m

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— SUCCESSOR TO BENJAMIN DORE. —

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SAN FRANCISCO. 11v8-tf

Ore Bags.

10 000 HAND SEWED GOLD AND SILVER ORE BAGS, 100 lbs each. 15,000 Chicken Gunny Pocket Bags, suitable for Copper Ore, 125 lbs each. For sale in lots, by

REYNOLDS, HOWARD & FORD,

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SQUARZA'S PUNCH.

FIRST PREMIUM

AT THE SACRAMENTO AGRICULTURAL STATE FAIR FOR THE YEAR 1862.

ALSO; FIRST PREMIUM

At the San Francisco Bay District Agricultural Fair, 1862.

MANUFACTORY, WHOLESALE AND RETAIL,

No. 44 Leidsdorff street, opposite the What Cheer House,

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MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.

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OFFICE OF THE PACIFIC METALLURGICAL OFFICE IS REmoved to 509 Sacramento street. Having enlarged our works at North Beach, we are now enabled to reduce from 10 to 15 tons of Silver or Gold rock per day.

Gold and Silver ore, and Sulphuret Assayers', or Silversmiths' sweepings reduced or purchased.

COPPER ORES—Highest market rates advanced in cash, for Shipments. S. C. BRADSHAW, Agent,

509 Sacramento street, near Sansome.

CHARTER PERPETUAL.

PHŒNIX
INSURANCE COMPANY,

Of Hartford, Conn.,

DEVOTED TO FIRE INSURANCE EXCLUSIVELY.

Cash Capital,.....$400,000 00
Cash Assets,.....$941,253 52
Invested in California,.....$50,000 00

W. B. CLARK, Secretary. H. KELLOGG, President.

Pacific Branch Office:

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Mining Notices.

Desert Mining Company, Flowery District, N. T.—Notice is hereby given, that on SATURDAY, the twenty-third day of April, 1864, at 12 o'clock, M., there will be sold at auction, at the salesroom of John Middleton & Son, No. 400 Montgomery street, San Francisco, a sufficient number of shares in the capital stock of the Desert Mining Company, standing in the names of the following persons, to pay the assessment (No. 10) of one dollar per share, levied January 20, 1864, together with the expenses of advertising and sale, unless the same shall have been previously paid. viz:

NAMES.	CERTIFICATE.	SHARES.	AM'T.
Bayerque, R	2:6	10	$10
Bayerque, R	319	5	5
Budd, W. C	304	5	5
Budd, W. C	305	5	5
Budd, W. C	345	5	5
Budd, W. C	346	20	20
Budd, W. C	347	20	20
Budd, W. C	348	20	20
Budd, W. C	349	20	20
Budd, W. C	350	20	20
Cahill, Edward	274	25	25
Cahill, Edward	303	70	70
Critcher, Henry	300	10	10
Critcher, Henry	317	10	10
Cullen, Jeffrey	151	25	25
Cullen, Jeffrey	154	25	25
Davis, G. H	352	25	25
Donohue, Ralston & Co	271	20	20
Fitch, J. R	360	50	50
Hall, R	343	5	5
Hay, A. M	289	5	5
Hall, O. G	329	5	5
Hedley, P. D	358	12	12
Homfray, R	250	10	10
Hyman, P. C	228	20	20
Hyman, P. C	229	20	20
Ireland, L. F	288	10	10
*Lyon, J. H	5, 6, 22 to 28	100	200
Milliken, I. F	237	25	25
Moody, W. E	251	10	10
Morgan, George J	273	10	10
Morrison, J. C	290	5	5
Nesmith, J. F	361	25	25
O'Brien, John	323	3	3
O'Brien, John	326	12	12
Rejnhart, E	330	20	20
Spiers, C. D	269	25	25
Schmiedell, Henry	356	5	5
Stoutenborough, C. H	265	10	10
Tobin, R. J	154	10	10
Van Tassell, F	221	10	10
Watson, N. A	149	5	5
Young, D. W	325	20	20
Young, D. W	339	5	5

By order of the Board of Trustees.
DAVID WILDER, Secretary,
No. 240 Montgomery street, San Francisco.

* NOTE.—100 shares in the name of J. H. Lyon will be sold subject to assessment No. 9, of one dollar per share, levied March 12, 1863.
12v8-5t DAVID WILDER, Secretary.

Albion Gold & Silver Mining Company.
Asia Gold & Silver Mining Company.
Jupiter Gold & Silver Mining Company.
Live Yankee Gold & Silver Mining Company.
St. Paul Gold & Silver Mining Company.—Notice is hereby given, that at a meeting of the Board of Trustees in each of the above named companies, held at their office in San Francisco, December 19, 1863, an assessment of fifty cents was levied on every share in the capital stock of each of said companies, payable immediately, in United States coin, to

DAVID WILDER, Secretary,
12v8-4t. No. 240 Montgomery street.

Sonoma Ledge Silver Mining Company, Reese River District, N. T.—Notice is hereby given that at a meeting of the Board of Trustees of the Sonoma Ledge Silver Mining Company, held at their office in San Francisco, March 12, 1864, an assessment (No. 4) of one dollar, was levied on every share in the capital stock of said company, payable immediately, in United States coin, to Julius Sichel, at Austin, N. T., or to DAVID WILDER, Secretary,
12v8-4t. No. 240 Montgomery street.

Maryland Silver Mining Company.
Imperatrice Silver Mining Company.
Belle Silver Mining Company.
Santa Maria Silver Mining Company, Location: Santa Fe District, Lander County, Nevada Territory. The regular Annual Meetings of the Stockholders of the above Companies, for the election of officers, and the transaction of other business, will be held on Friday, the Fifteenth day of April, 1864, at the office of the Secretary, No. 305 Montgomery street.
12v8-4t J. S. LUTY, Sec'y.

East Lynn Gold & Silver Mining Company, Inyo District, Tulare County.—Notice—The annual meeting of the Stockholders of the above Company, for the election of Trustees will be held at the office of the Company, 618 Merchant Street, San Francisco, on Monday, April 4th, 1864, at 4 o'clock P. M.
12 3t SAMUEL SMITH, Sec'y.

Lucretia Gold and Silver Mining Company, Summit District, Lander county, N. T.—Notice is hereby given, that at a meeting of the Board of Trustees of the above named Company, held February 13th, 1864, an assessment of twenty-five (25) cents was levied on each share of the capital stock, payable immediately, in gold coin, to the Secretary. H. C. KIBBE, Secretary.
Office, Lyceum Building, cor. Washington & Montgomery Sts.
San Francisco, March 18, 1864. 12v8

Emmett Copper Mining Company, Office No. 645 Clay Street, San Francisco, February 19th, 1864.—Notice is hereby given to the Stockholders of the Emmett Copper Mining Company, that an assessment, No. 4, of 37½ cents per share was this day levied on each and every share of the Capital Stock of said Company, payable immediately in United States Gold Coin, to the Secretary, or to L. HONIGSBERGER, Copperopolis.
8v8-4t M. G. ELMORE, Sec'y.

Give the Name of the District.

We are requested to call the attention of Secretaries of Mining Companies to the importance of inserting in their advertisements, of whatever character, the name of the district or locality. Considerable trouble arises from this neglect, as there are Companies bearing the same name, although situated in different localities. Attention to this matter will not only be a benefit to others interested in Mining Companies, but also to the Secretaries themselves.

Before Cutting the Leaves of this journal, stitch each No through the back, or fasten with a large pin, and you will have a paper in the most convenient form possible for reading or reference.

Bodie Consolidation Gold and Silver Mining Company, No. 2.—Office, southwest corner of Clay and Montgomery streets, San Francisco.—Notice is hereby given, that in accordance with an order made on the 4th instant, by the Board of Trustees of the Bodie Consolidation Gold and Silver Mining Company, No. 2, there will be sold at public auction, by Jerome Rice & Co., at their salesroom, No. 327 Montgomery street, San Francisco, on WEDNESDAY, the 27th day of April, A. D. 1864, at 11 o'clock A. M., a sufficient number of shares of the capital stock of said Company, standing in the names of the following persons, as may be necessary to pay the assessment levied January 14th, 1864, together with the expense of advertising and sale, unless said assessment and charges are previously paid:

		SHRS.	ASS'T DUE.
William Ayres, Sr	Cert. 482, 483, 484, 485, 486. Shrs. 10. 10, 10, 10, 10.	50	$25 00
Miles Chapin	Cert. 129, 130, 312, 313. Shrs. 15, 10, 10, 10.	45	22 50
G. S. Chapin	Cert. 305, 306. Shrs. 25, 25.	50	25 00
A. L. Chamberlin	Cert. 358.	25	12 50
L. H. Dearborn	Cert. 509.	24	12 00
Thomas Gardner	Cert. 288.	20	10 00
James Lang	Cert. 518.	15	7 50
Jas. F. McFarlane	Cert. 118, 121, 122, 124, 126. Shrs. 50, 10, 10, 10, 10.	100	50 00
M. S. Martin	Cert. 380.	250	125 00
L. W. Newell	Cert. 435. 435, 451, 452. Shrs. 25, 15, 15, 10.	65	32 50
Jonathan Peel	Cert. 542, 543, 544. Shrs. 50, 50, 25.	125	62 50
Edward Rondel	Cert. 412, 413. Shrs. 7, 5.	12	6 00
W. D. Robinson	Cert. 508.	25	12 50
C. H. Stoutenborough	Cert. 364.	20	10 00
Jesse D. Spray	Cert. 515.	25	12 50
Edward Donahue	Cert. 512, 514. Shrs. 25, 25.	50	25 00

By order of the Board of Trustees.
A. L. CHAMBERLIN, Secretary.
San Francisco, March 12, 1864. 12v8-5t

Samantha Consolidated Gold & Silver Mining Company.
Lewis Consolidated Gold & Silver Mining Co.
Memphis Gold & Silver Mining Company.
John J. Crittenden Gold & Silver Mining Co.
Grafton Gold & Silver Mining Company.
George Leet Gold & Silver Mining Company.
Meteor Gold & Silver Mining Company.
Pontiac Gold & Silver Mining Company.
Hyack Gold & Silver Mining Company.
Butler Gold & Silver Mining Company.
Enterprise Gold & Silver Mining Company.
Essex Gold & Silver Mining Company.
Tehama Gold & Silver Mining Company.
Crown Point Consolidated Tunnel Mining Co.
Nicolaus Gold & Silver Mining Company.
Scottish Chief Consolidated Tunnel Mining Co.

Notice is hereby given that at a meeting of the several Boards of Trustees of the following and above named Companies, held in the City of San Francisco on the 19th day of October, A. D. 1863, the following assessments were duly levied, payable immediately to the Secretary in U. S. Gold Coin at his Office No. 509 Clay st., San Francisco, or to S. F. AMBLER, Austin, N. T.

NAMES OF COMPANIES.	ASSM'T PER SHARE.
Samantha Consolidated G. & S. M. Co	25 cts.
Memphis G. & S. M. Co	25 cts.
Lewis Consolidated G. & S. M. Co	25 cts.
John J. Crittenden G. & S. M. Co	25 cts.
Grafton G. & S. M. Co	25 cts.
George Leet G. & S. M. Co	40 cts.
Meteor G. & S. M. Co	20 cts.
Pontiac G. & S. M. Co	20 cts.
Hyack G. & S. M. Co	20 cts.
Butler G. & S. M. Co	20 cts.
Enterprise C. & S. M. Co	20 cts.
Essex G. & S. M. Co	20 cts.
Tehama G. & S. M. Co	25 cts.
Crown Point Consolidated Tunnel & M. Co	50 cts.
Nicolaus G. & S. M. Co	10 cts.
Scottish Chief Consolidated Tunnel & M. Co	10 cts.

All the mines of the above named Companies are located in Reese River Mining District, Lander county, Nevada Territory. By order of the Board of Trustees. D. B. FRANCIS, Sec'y.
Office, No. 509 Clay street. 11v8-4t

Bodie Bluff Consolidation Mining Company, Bodie District, Mono Co., Cal.—February 27th, 1864.—At a meeting of the Board of Trustees of the above named Company, held this day at the Secretary's Office in the town of Aurora, the following among other proceedings were had, viz:—*Resolved*—That an assessment No. 3,) of one dollar upon each share of the Capital stock of the aforesaid Company he and the same is hereby levied, payable immediately in U. S. Gold Coin, or its equivalent in Legal Tender Notes, to the Secretary, at No. 614 Montgomery Street, San Francisco. *Provided*—That all the Stock upon which the assessment (No. 2,) of Fifty cents per share, levied June 13th, 1863, has been paid, only fifty (50) cents per share shall be paid under this assessment.

Resolved.—That the Transfer office of the Company be removed to San Francisco. By order of the Board of Trustees.
11v8-5t F. K. BECHTEL, Sec'y.

Pride of Nevada Mining Company, Reese River District, Nevada Territory.—Office, No. 520 Washington St., San Francisco.—Notice is hereby given, that the Board of Trustees of the Pride of Nevada Mining Company at a meeting of said Board, held March 8th 1864, levied an assessment (No. 1,) of fifty (50) cents on each and every share of the assessable stock of said Company, said assessment payable immediately in U. S. Gold Coin, to the Secretary, or to A. E. SHANNON, Superintendent.
11-4t H. B. CONGDON, Sec'y.

Billet Gold & Silver Mining Company, Gen. Scott Ledge, Augusta Mining District, Lander County, N. T.—Notice is hereby given that at a meeting of the Board of Trustees of this Company, held this 5th day of March, A. D. 1864, an assessment of Twelve and one half (12½) cents per share was levied upon each and every share of the Capital Stock of the Company, payable immediately to the Secretary, in U. S. Gold Coin, at his Office, No. 509 Clay Street, San Francisco, or to S. F. AMBLER, at Austin, N. T. By order of the Board of Trustees. D. B. FRANCIS, Sec'y.
11v8-4t

Santa Maria Silver Mining Company, Santa Fe District, Lander county, Nevada Territory. Office 305, Montgomery street, San Francisco, Feb. 23, 1864.—Notice is hereby given that at a meeting of the Board of Trustees, held this day, an assessment (No. 2) of fifty cents per share was levied on each and every share of the capital stock of the above company, payable immediately, in gold coin, to the Secretary, at his office. By order of the Board of Trustees. (9v8-4t.) J. S. LUTY, Sec'y.

Office of the Montezuma Gold & Silver Mining Company, No. 52 Government House, corner of Washington and Sansome streets, San Francisco, Feb. 5th, 1864.—Notice is hereby given, that a sufficient number of shares of the Capital stock of the Montezuma Gold and Silver Mining Company, standing in the name of the following person, will be sold at public auction, at the sales room of Jerome Rice & Co., No. 327 Montgomery street, on WEDNESDAY, March 9th, 1864, at 11 o'clock A. M., to pay an assessment of 12½ cents per share, levied April 27th, 1863, together with expenses of advertising and sale, unless said assessment is previously paid with accruing charges—viz: Hugh McCormick; 247 shares; amount due, $30,87½. By order of the Board of Trustees.
6v8-5t C. A. CRANE, Sec'y.

San Francisco, Wednesday, March 9th, 1864.
The above sale is postponed until Wednesday, March 16th, 1864.
C. A. CRANE, Sec'y.

The above sale is further postponed until Wednesday March 25th, 1864. C. A. CRANE, Sec'y.

Poindexter Silver Mining Company, Reese River Mining district, N. T.—Notice is hereby given, that at a meeting of the Trustees of the above named Company, held the 20th of October, 1863, an assessment of Fifty cents per share was duly levied on each and every share of the Capital Stock of the Company; and at a meeting of the Trustees held Feb. 27th, 1864, an assessment, No. 2 of fifty cents per share was duly levied on each and every share of the Capital Stock of said Company, payable immediately to the Secretary, in U. S. Gold Coin, at his office, No. 35 Government House, or to the Agent, WM. ALPHENS SMITH, at Austin, N. T.
San Francisco, March 1st. (10v8-1m) JAS. C. NORRIS, Sec'y.

Office of the Belle Silver Mining Company, Santa Fe District, Lander county, Nevada Territory. San Francisco Feb. 23, 1864.—Notice is hereby given that at a meeting of the Board of Trustees of the above Company, held this day, an assessment (No. 2) of fifty cents per share has been levied on each and every share of the capital stock, payable immediately, in gold coin, to the Secretary at his office. J. S. LUTY, Sec'y, 305 Montgomery.
9v8-4t.

Maryland Silver Mining Company, Santa Fe District, Lander county, Nevada Territory. Office 305 Montgomery street, San Francisco, Feb. 25, 1864.—Notice is hereby given that at a meeting of the Board of Trustees of the above named company, held this day, an assessment of fifty cents per share has been levied on each and every share of the capital stock, payable immediately to the Secretary, at his office. By order of the Board of Trustees.
9v8-4t. J. S. LUTY, Sec'y.

Picayune Gold, Silver and Copper Mining Company, Bear Gulch, Calaveras Co.—At a meeting of the Board of Trustees of the above Company, on the 17th day of February, 1864, an assessment of six cents per share on each and every share of the Capital stock of the said Company was levied, payable on or before the 22d, day of March, 1864. And Notice is also hereby given that the first annual meeting of the Stockholders of the said Company will be held on Tuesday the 22d day of March 1864, at the office of the Company at Copperopolis, for the purpose of electing officers for the ensuing year, for the adoption of By-laws, and for the transaction of such other business as may come to its notice. All Stockholders are respectfully requested to attend.
By order of the Board of Trustees,
L. HONIGSBERGER, Sec'y.
Copperopolis, Feb. 17th, '64. 9v8-4t

Imperatrice Silver Mining Company, Santa Fe District, Lander county, Nevada Territory. Office 305 Montgomery street, San Francisco, Feb. 24, 1864.—Notice is hereby given that at a meeting of the Board of Trustees, held this day, an assessment (No 2) of fifty cents per share was levied on each and every share of the Imperatrice Silver Mining Company, payable immediately, in gold coin, to the Secretary, at the Company's office. By order of the Board of Trustees. (9v8-4t.) J. S. LUTY, Sec'y.

Enterprise Copper Mining Company.—Office 645 Clay Street, San Francisco, Feb. 13th, 1864.—Notice is hereby given, that there will be sold at the Office of the Enterprise Copper Mining Company, on Saturday March 19th, 1864, at 10 o'clock A. M. so many shares of the Capital Stock of said Company as will be necessary to pay all assessments due and delinquent, standing in the names of the following parties:

NAMES.	NO. SHARES.	AM'T. DUE.
Abell & Evans	200	$ 52
A. Bateman	125	32 50
Belcher & Schwarz	34	8 84
M. Berkowitz	50	4
John Cochran	25	14
J. M. Camon	25	14
J. P. Dameron	100	45
Wm. Davis	25	6 50
Thos. Donahue	15	8 40
James Daley	10	2 60
D. Elsner	133	21 23
Wm Harris	400	204
J. Krone	133	34 58
J. E. Kincaid	25	6 50
T. S. Levy	2000	475
V. C. Putman	200	52
F. Robinson	200	52
E. F. White	200	52

By order of the Board of Trustees. M. G. ELMORE, Sec'y.
San Francisco, Feb. 12th, 1864. 7v8-4t

Brown's Bronchial Troches.—These Lozenges are prepared from a highly esteemed receipe for alleviating BRONCHIAL AFFECTIONS, ASTHMA, HOARSENESS, COUGHS, COLDS, and IRRITATION of the Throat.

PUBLIC SPEAKERS AND VOCALISTS

Will find them beneficial in clearing the voice before speaking or singing, and relieving the throat after any unusual exertion of the vocal organs, having a peculiar adaption to affections which disturb the organs of speech.

Agents for California, REDINGTON & Co., San Francisco. 10-1m

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. THE MINING AND SCIENTIFIC PRESS PATENT AGENCY has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

Mr. Jarvis Jewett is our duly authorized advertizing agent and collector in this city.

AND SCIENTIFIC

Mining Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

VOLUME VIII. SAN FRANCISCO, SATURDAY, MARCH 26, 1864. NUMBER 13.

Contents:

No. 13—March 26.—Physical Growth of San Francisco; Calaveras and Tuolumne Copper Mines; Owens River Correspondence; The Baker Copper Company; Nevada County Correspondence; An Immense Oasting; Extraordinary Power of Resisting Heat: The Other Side; Patent Department; A New Separator; Washoe Stock Markets; Full Report of San Francisco Stock Boards; Mining Gossip; Death of Mr. John Young; Items of Mining News; Record of New Incorporations; Miscellaneous Editorials and Mining Notices.

Communications.

[Written for the Mining and Scientific Press.]

Physical Growth of San Francisco.

BY A SPECIAL CONTRIBUTOR.

Let us go to one of our neighboring hights and not only look around but *back* into the Past; and what do we see?

A semicircular cove, curving inland, and defining a peninsula composed of high sand hills, bleak and barren in the extreme, appears in view. On the point of a high promontory that looks northward, standing with a strong relief against the deep blue sky and bathed in the light of a clear October morning, appears a single human figure. He is clad in priestly garments, and wears, withal, a look of earnestness, worthy his high vocation, as a Spiritual Teacher. His searching eye, passing over land and water seems to be taking, at one keen and rapid glance, both the altitude and depth, the extent and capability of things. We see he is satisfied with the prospect, as he folds about himself his outer garment, which the wind that is howling savagely through the gaps and gorges of the hills, has partially swept away—resolutely, as if he had folded with it the will to do and suffer—to develop and sustain the forces, which are even now, revolving in his large and busy brain.

That man is Father Juniper Serra, who, by one of those disguised Providences loosely denominated accidents, has passed by Monterey, his point of destination; and still bearing to the north, finally discovered our beautiful Bay, which he has named San Francisco, in honor of his patron Saint, who, by more than ordinary manifestations of presence, has led him hither.

Years roll on; and the scene changes. The simple Indians are gathered around the new church in a neighboring place. Now come cattle to the distant hills and culture to the valleys; and a flourishing Mission is established; but the present site of San Francisco still remains unshorn of its shaggy bearding of gray chaparal, and still reposes in all the grand desolation of nature.

Again the scene changes. On the cove lie two small sloops careening almost into the face of the water, as they shake and shiver in the rising wind; and stooping down almost to the very verge of the shore there is one dwelling, half house, half tent, the first and only one that has yet appeared. It was built in 1835 by Captain Richardson, who also owns, and navigates the two small vessels in the incipient harbor. Poor as it appears, this is the actual beginning of San Francisco. So late as 1846 it was but a small village, then called Yerba Buena. It waited patiently for the magic word to be spoken, and then it awoke. There were obstacles to be overcome; there were capabilities to be seen; there were forces to be evolved. Then came, but not finally until the year 1848, the conceptive sight, the constructive genius and the pushing power of the American people; and the long-latent Yerba Buena, having waited her full time, burst into sudden flower, and the fruit was San Francisco. Thus within a quarter of a century the whole growth is included.

Look at it now, in all the light and glory of the present. On the land appears a wide and densely clustered array of human habitations—on the water, a forest of shipping. In short, we find a city of the first order, the home of more than 120,000 souls. Comfortable and convenient dwellings, scattered at large, now cluster in crowded courts, now define the borders of broad and graded streets, while the great thoroughfares are skirted with lofty blocks of brick, granite or marble. Here are hotels that tempt alike the luxurious and the curious, the restless resident and the weary way-farer, with the comforts of home and the splendor of palaces; halls where amusement, learning and science alternately hold their reign; hospitals and asylums for the sick and poor of almost every land, and churches that exhibit the artistic power and appreciation, as well as the moral and religious calibre of the people, the whole encircled by at least four miles of solid and substantial wharfage, that will soon be altogether worthy of the finest harbor in the world, as we claim our own to be.

All this has been achieved at the greatest possible disadvantage. Hollows have been filled up; hard and rocky hills have been leveled, sometimes long streets passing through the heart; otherwise impassable hights have been terraced; the houses along whole streets have been raised to a level with the rising highway, and almost all the most important business portion of the city is built on lands that were made, at an amazing expense, by transferring the sand hills into the cove. The magnitude of this work can better be conceived of when we reflect that water to the depth of several fathoms has thus been filled up, and that large ships, that had foundered in the mud, lie under some of our principal streets—one of them, the Niantic, having given its name to the hotel under which it lies buried.

Our progress has also been checked by several extensive and devastating fires, so that our city has not only been built, but nearly rebuilt, a number of times. Yet, in defiance of every difficulty, the progressive power still strode on, carrying in its train results so stupendous that could they be set forth in their right array, they would seem more extravagant than the wildest fiction. In view of a spectacle so imposing, the imagination becomes excited, and common speech warms with poetic fervor.

We have read in the Arabian Nights, and elsewhere stories of incredible heroism—enchantments of superhuman sagacity and power. We smile at their absurdity, and still read on, amused if not instructed, by their marvelous unfoldings. Yet here is a scene, concrete and living, with all the form and force of the most intense organic power, based in the history of our own times, shaping and clothed with fact, as it were, under our very eyes, yet involving the actual presence of magic on a grander scale than the Oriental romancer ever dreamed of. What Aladdin ever conjured up forces so powerful yet so obedient; what Ali Babi even spoke the "open sesame" to wealth so exhaustless; what Facardin ever bound the Fates themselves by a power so potent and resistless, as in the deepest noonday of the nineteenth century we see bound up with our city, as it *appears*, and is to-day. Yet all this has been achieved by purely human forces—the strength, sagacity, wisdom and will of the bare MAN; and what is more, it has been accomplished by fighting *against* FATE. Here, verily, truth is stranger than fiction, and concrete tangible fact draws harder on our credulity than the wildest romance.

Nor is the scene less surprising as we descend to details, and carefully analyze its features. The strength and capacity of the warehouses, the elegance and fullness of the retail stores, and the brilliant evening array of Montgomery street, surprise and startle one who thinks he has come to a very young city. That there is a high degree of intelligence and home blessing, may be seen in the great numbers of well-dressed and refined women we meet indoors and out, while the conservative, as well as the radical power of the atmosphere itself may be inferred from the large proportion of beautiful faces, especially of the young girls. Again, on the other hand, the profound business aspect of the men, the startling character of the advertisements, and, in fact, the whole spirit of the press, all declare that here the great game of life is played under the strongest stimuli and with the boldest hazards.

The semi-Oriental character of certain districts is a distinguishing feature; but the entire absence of beggary is a still more remarkable one. It may be said, without fear of contradiction, that in no large city of the world are there so few professional mendicants as in San Francisco. We are justly proud of our city, or rather of our people, who constitute its living fibre and moving essence. The rapidity of its growth, the suddenness of its development, defy competition, even of the most precocious American cities.

STREET RAILROADS.

One of the most remarkable outgrowths of power in the physical plane, will be found in our yet infant system of street railroads. Although our omnibus lines have been in operation but little more than a year, they rival in extent of traverse, variety, comfort and elegance of accommodation, the best in the Atlantic cities, not even excepting New York and Philadelphia.

The first of our street railroads was the Market street steam line, which began in 1860; its presence being almost immediately marked by a great rise in the value of real estate, and a consequent increasing harvest of taxes, to be gathered by the city. But the most important advent of the locomotive order was that of the horse-car and omnibus lines, the first of which commenced running January 1st, 1863. The North Beach and Mission began February 1st of the same year; and the Central Railroad Company January 1st of the present year. These roads, which include more than thirty miles of single track, have been constructed at a stupendous labor and expense. The advantage they are to the city it is impossible to estimate. Unsightly sand hills have been cut through and leveled before them, and fine graded and macadamized roads constructed for their accommodation. And these roads are all free. Before their construction there was not a free road anywhere in the vicinity. We could not even go out to Lone Mountain to bury our dead, or lay a rose on the grave of the dear departed, without a heavy extra tax in the shape of toll. But now we have the finest carriage roads, lighted by night and excellent at all times, leading to all our principal suburbs, that are absolutely free and open to the public.

We may well be proud of our railway system; and, as a people, we are in duty bound, both to ourselves and its enterprising projectors, to throw around it all possible protection. Its rapid growth is a true measure of our progressive power.

And the late completion of the San Jose Railroad is so much done toward the great Atlantic and Pacific Highway, which we have invoked, and shall embody, by all the powers of hand and will, of mind, means and material, which the world can furnish to our work. Who can foretell the results of such an enterprise, but that Civilization itself will be accelerated, and conducted into wider ranges of occupation and power.

We have not yet exhausted our material, but are admonished by the crowding spaces to have the remainder of this part of the subject for next week.

REMOVAL.—The Mountain *Messenger*, of March 19th, announces that its next publication will be made at Downieville.

[Written for the Mining and Scientific Press.]

Calaveras and Tuolumne Copper Mines.

BY OUR TRAVELING CORRESPONDENT.

Mr. Editor :—My report upon the mines in the neighborhood of Mokelumne Hill and San Andreas completed my tour of inspection. I had, nevertheless, an important duty to perform, perhaps the most important of my labors—viz: to prepare an account of the probable real value of the districts I visited. In order to do this effectively, I purposely deferred it until my return to San Francisco, that I might have the advantage of certain works to which I desired to refer. I now proceed to make a final effort to place the copper mines of the State in their true light before the capitalists of this city; and, in re-asserting their pre-eminence over all others in the world for extent, richness and reliability, I trust I shall be found to do so, on arguments that cannot be rebutted, and facts that cannot be disputed.

I had been but a few hours on Montgomery street before I discovered that considerable attention had been paid to my reports; for I was asked a score of times, in almost as many minutes, whether I had not, after all, over-estimated our mines, and attached too high a value to the copper interests? I was rather pleased than otherwise to find the public opinion run in that direction, because, having in reality under estimated both, I shall now have less difficulty in obtaining a general assent to the facts and statistics submitted in this letter.

It has often, during my travels, been a surprise to me that the business tact and keenness of the American people, as developed in the history of California, ever so ready at all times, and under all circumstances, to seize upon opportunities of making money which present themselves, should be so strangely dull and sluggish in this direction. At one time or another during our brief sojourn on the Pacific slope, we have seen the current of business tact and public desire set in every possible direction. First, accumulating means in the placer mines, the *great idea* was to own a ranch; then it was stock—cattle, horses and hogs; then it was raising barley; next, wheat, potatoes and hay; finally, fruit; until, from everybody going into these occupations, the whole gradually became unprofitable, and, in most cases ruinous. Such a result was inevitable, for political economy teaches us that so far as the general prosperity of a community is concerned, there is really no difference between over-production and under-production; that one is as great an evil as the other. If no one desires to buy, of course no one is able to sell; and thus the produce, whatever it may be, having no market, has no valuation; while the more extensive it is, the more certain and complete the ruin it involves. How many of our once wealthy families, wealthy in lands, in stock, in produce, in vineyards, find themselves to-day in this deplorable condition—the result of mistaken judgment and short-sighted policy.

But, in reference to the copper business, this is all changed, for the simple reason that there is no such thing as creating an over-production of the article, or arresting its sale in the market. From the time of Tubal Cain, the great artificer mentioned in the Old Testament, it has been the experience of all ages and people that the production of *one ton* created the demand for *two*, and that the world never had, probably never will have, more than half the supply it needs of this most important metal. Grecian historians, such as Homer and Hesiod, sang the fame of Cadmus for discovering copper on the island of Cyprus, and teaching its application to the wants of man. All through the Roman era, in the mystic language of the Alchemists, copper came to be called Venus, to which goddess the island of Cyprus was sacred. And to-day, amongst ourselves, the most intelligent of all people, copper still holds its rank as the most important of the seven primitive metals in use amongst the ancients.

Yet, strange to say, although we have, without exception, the most wonderful cupriferous formation, in richness and extent, the world every knew, lying within a day's easy drive from Stockton, it seems impossible to arouse the capitalists of this city to a just realization of the fact. In any other country, I am convinced, a public thanksgiving would be ordained for the discovery; poets and orators of the choicest intellect would be selected, as in days of old, to sing its praises, 'till every corner of the earth echoed back its fame; capital and labor would roll in peaceably together, that they might gladden and enrich the masses of the many, and give new life, power and greatness to the nation. Here, however, on the contrary, it is regarded with distrust and treated with indifference, because the *result* of the labor and capital already expended has not come up to public expectation. But that, I hold, is not a just criterion. If this public expectation had been governed by a desire to develop a permanent national wealth, which is patient and enduring to the end, and not by an individual desire to become suddenly rich, which is equally capricious and unstable, the condition of the copper interest would be much better than it is to-day. Nevertheless I hold, in spite of all croakers, from drunken Dogberrys to scheming Bears, that the result of both the labor and capital expended hitherto in the copper mines, although in many instances criminally abused, is worthy the cause to which it was devoted, and creditable to American enterprise and skill. The surest way of proving this assertion is to recapitulate, in one letter, the character of this cupriferous formation—the total number of veins, their extent and richness. First, then,

THE NUMBER OF VEINS.

It is well known, now, that the extent of the copper region is about 25 miles wide, reaching from Telegraph City, eight miles west of Copperopolis (regarded as the centre of the entire system), to San Domingo, sixteen miles east of that town. Within this range I find *twenty-nine* distinct veins. So far as the reliability of this remarkable formation is concerned, there is no future doubt, for I hold it to-day to be thoroughly developed through the entire center—that is, we have shipping ore, of high percentage and large quantities, at the western boundary, from the Napoleon; at Copperopolis, from the Keystone and Union, in the center; at San Domingo, from the Noble, the eastern boundary. At Campo Seco, on the Mokelumne river, and Don Pedro's Bar, on the Tuolumne river, 45 miles apart through the centre, north and south, we have also shipping ore, equally rich and in large quantities, from the Copper Hill, Lancha Plana and Campo Seco at the north, and the Salambo at the south. Hence I hold the entire system is developed, and being rich through the center east and west 25 miles, and rich through the center north and south 45 miles, there is no legitimate argument against my presumption that a large proportion of the *two hundred and fifty* mines, now in a more or less forward state of development, at different places on these parallel veins, and all which I have reported in a healthy condition, will also become paying institutions when they get deep enough. Apart, however, from these actual developments, showing copper to exist in immense quantities throughout the entire range, and judging of the merits of each vein from its own evidences, I find little, very little, to give one a preference over another. Their remarkable feature is, that they all look equally well in different places, and upon this fact I base my judgment of their ultimate value. Hence my reports are not overdrawn. If I were to form a preference from external evidences, apart from actual developments, in favor of certain places, I should select Campo Seco, Crimea House and Sonora. As a general thing, there is no preference to be given. One fact, however, is patent to every one, whether he understands the formation of copper or not, the veins almost everywhere in the two counties look better, stronger and healthier than they do immediately around Copperopolis. Hence I say there is ample assurance of ultimate success to all. But, on re-visiting different mines on my way home, where I had every reason to suppose that ore would have been struck two months ago, I have been forced to the conclusion that the copper line is deeper than I thought at first, and that no general strikes will be made at less than 150 or 200 feet deep; yet, admitting this to be so, I am certain that the ensuing year will show more successful results than the past three years have done; because the people are beginning to understand this particular character of mining, and a great number of shafts must necessarily be approximating the copper line. Now, therefore, is the time for capitalists to invest. A few months hence may be too late. Men owning a two or three-foot vein of ore need not care to have the Czar of all the Russias for their partner, wealthy as he is, and friendly as he is supposed to be to the American people at large. How, then, will they treat the Bears and Bulls of Montgomery street, who, in their short-sighted, self-sufficiency and ignorance, scorn, just now, even to mention copper stock? There will come a terrible day of retribution, and I intend to help it along all I can.

EXTENT OF THE VEINS.

As I have already stated, I have been on these 29 parallel veins, for 25 miles in width and 45 miles in length. Necessarily in traveling backwards and forwards to the different claims, I have intersected them at every point, and enjoyed the fullest opportunity of judging their extent and character. I have ridden along many of them for 30 miles, without intermission, and almost everywhere find them show on the surface from ten to thirty feet in width. It is really marvelous how little interruption there is to their surface continuity. Indeed the only place where a break of consequence occurs is up the Salt Spring Valley, from the Keystone to the Suffolk. Throughout these ten miles it will be extremely difficult to locate these veins, and more so to work them, on account of water. In reference to the question of all these veins being continuous, and it is very important, there seems to be no doubt now of their traversing the entire length of the State. Upon this point of extension we need not perplex ourselves, for if they go no farther than my own travels, they are large enough to heat the world. It is of more consequence to those desirous of obtaining reliable information, to know how the veins hold themselves in width. So far as opened, they fully sustain their reputation. From four to six feet seems to be the average width, though some go thirty feet. If we are to judge of those undeveloped by those now shipping ore, no mind can calculate the immensity of our copper interests in the future. Perhaps it may be well to enumerate the principal ones. The Union is 16 feet; Keystone, from 3 to 15; Napoleon, over 20; the Cosmopolitan, recently struck on the same hill, 6; the Campo Seco, 10; the Copper Hill, 8; Lancha Plana, 8; Noble, 3; Solambo, 4; Table Mountain, 3; with the Empire, Calaveras and others just opening, ranging about the same, thus giving us, as a present result, over 100 feet in width of solid sulphuret ore to draw from. Yet copper stock must not be mentioned on Montgomery street! How absurd! I reckon, however, our friends at the mines can afford to "hide their time," and then somebody will have to pay for learning.

RICHNESS OF THE VEINS.

Those unacquainted with the history of copper, or those whose present connection with the business has made them somewhat conversant with its vastness will scarcely believe the figures I am about to give, still less be prepared to admit the important position California has already taken among the copper producing countries of the world. Yet you, Mr. Editor, well know the unquestionable authority from which I quote, so that the public need have no doubt of the correctness of my statements.

In the first place, let me show the comparative production between England and this State. Dr. R. H. Lamborn, the highest authority of the day, says that "the United Kingdom produced in 1858 from the one hundred and sixty-four mines, that are reported, 226,852 tons of ore, valued at $6,682,675, which contained 14,456 tons of *fine* copper, valued at $7,813,165. The total quantity of *copper* produced from British, foreign and colonial ores, during the same year, was 31,611 tons, valued at $15,085,149." Now the produce during the present year, of the Calaveras and Tuolumne mines, now shipping ore, or capable of doing so, if pressed to their utmost capacity, with the aid of proper concentrating machinery, I set down as a reasonable estimate at 34,400 tons. I rate them thus: at Copperopolis, the Union, Keystone, Table Mountain, Empire, and Calaveras at 1250 tons a month: at Hog Hill, the Napoleon, Cosmopolitan, and Collyer 600: at Campo Seco, the Copper Hill, Lancha Plana and Camp Seco 750: at different places, the Solambo, the Noble, and others 100, making altogether the amount given 32,400 tons for the current year, from 15 mines, which yield, if applied to the 164 mines already alluded to, would exceed them 129,828 tons. Suppose I reduce my estimate of the probable paying mines, in the district which we are examining, *one third*, and say that out of the 260 mines, I have reported upon, we shall have in two years 164 paying mines, and that is not extravagant, we arrive on easy calculations, at this wonderful fact that in 1866, the copper mines of Calaveras and Tuolumne counties alone will equal the entire produce of the English, Foreign and Colonial mines in 1858, and give the nation a clear profit of *fifteen million* dollars a year. What a wonderful place Washoe must be thus to monopolize the love of this city!

You may recollect, that in my letter from Mokelumne Hill, I stated, at a rough guess, that the annual proceeds of these mines, if thoroughly opened, would reach $24,000,000. At the time, many thought that estimate ridiculous; yet you see, according to the authority quoted, considered in the question of produce alone, it is really under the mark. I shall now prove it so. In the third and last table prepared by Dr. Lamborn, he gives the per centage of the ores sold at the Cornish "ticketings" from 1771 to 1859, extending through a period of 88 years. I hope the Bears and Bulls of our city, and every other man, will read this paragraph carefully, because it ventilates the wealth of our copper mines freely. By this

table, I find the per centage of the English ore ends, where the California begins—that is, their ore for a period of 88 years, ran from 6 to 12 per cent., while the California ore begins at 12 and runs to 30 per cent. Now add this superior percentage, to the equality of production, and our annual copper yield instead of 24 will exceed $30,000,000. There is no mistake in this as I shall prove by figures. From 1771 to 1790, Dr. Lamborn says, the ore in England reached its maximum, 12 per cent; for the next seven years it averaged 8.8; for the next 12 years 9.1 and 9.5; for the next 15 years 7.9 to 8.1; for the next 18 years 7.9 to 8.3; for the remaining 7 years, 6.4 to 6.8. Now, Sir, place this per centage, in comparison with the California ore, and it becomes simply pitiful, that's the expression — simply pitiful! California ships no ore under 12 per cent., and a large amount as high as 20. After this, I do not think my estimate of the annual revenue will be again questioned. What a wonderful place Washoe must be, thus to absorb all the capital of the State. How wise and sensible also, to send it *all* there, instead of dividing the chances between silver in Washoe and copper in California, with the present prospects of return.

In addition to what has already been written, it must be recollected, that while during the last 25 years, the world's supply of copper has more than *doubled*, it is now higher in price than ever. I believe the last quotation in New York was 42¾ cents per pound, though I have no idea it will remain at that figure.

But I must hurry to a close. In taking leave of my copper friends, I do not think I can do so more gracefully, certainly not more in consonance with my own feelings, or more effectually, than by quoting the beautiful tribute which Dr. Lamborn gives to copper. "In the construction and ornamentation of churches, copper has played an important part: the roof, the altars, and the sepulchral monuments were often wrought of this substance: and the statures and decorations of pantheistic temples still exist in renovated forms in the worshiping places of christianity. The invention of gunpowder, and the subsequent introduction of bronze cannon in the wars of the fourteenth and fifteenth centuries, had an important influence in increasing the value and the production of copper; and as the civilization of more modern periods grew, the demand for a cheaper metal, approaching in its properties those of gold and silver, increased rapidly, until at present there is scarcely a branch of human economy where copper is not found an important means of arriving at greater perfection. Either unmixed or in the form of a compound, it is employed in the construction of nearly all kinds of machinery: for forming the delicate instruments of the astronomer, natural philosopher, engineer, and musician; for increasing the security of commercial enterprise by adding to the durability of ships; as a path for the electric current in its bold journey from continent to continent in the service of civilization. It furnishes a re-agent for the chemist, and for the physician a remedy against disease. The sculptor employes it to express his conceptions, the painter aided by the engraver, to reproduce and disseminate beautiful thoughts. The electro-metallurgist uses it to catch and make prominent the evanescent forms of nature and art. The glass-maker, the cook, the dyer, and those engaged in many other employments, use it constantly, while almost every advance made in technical science adds to the number of its applications."

L. H.

[Written for the Mining and Scientific Press.]

Owen's River Correspondence.

Editors Mining and Scientific Press:—Knowing the interest you take in all new mining discoveries and developments in the mineral regions of Nevada Territory and California, I send you the following from this new and important district. Some four weeks since a party left Owensville to prospect the Inyo range of mountains north of Keyes and Lone Pine District, and on arriving at this place they made discoveries they think that will fully justify the name of Montgomery—it being the same relation to all the other districts yet discovered in the Inyo range that Montgomery street in your city does to Front and Second streets. In this district the lodes are large, rich, and well defined, ranging from four to fifteen feet in width on top, and widening as they go down as far as tested. Among many others I will mention the Pine Leaf, Rappahannock, Davy Crockett and Aristides. The Pine Leaf is a lode fifteen feet wide, and crops out in great fines, or chimnies, like the Comstock lode in Virginia City.

One of the striking characteristics of this lode is the bromides of silver found diffused all through the lode, not only in the outcrop, but as far down as the company have yet gone with their shaft. A gentleman just in from Reese River remarked, "If that lode was in Reese River it would bring $500 per share, without prospecting;" and from an assay since made, I am fully convinced of the truth of his assertion. The district has been very slightly prospected, and there remains doubtless many important discoveries yet to be made. Be that as it may, enough has already been discovered to make it one of the richest districts on the eastern slope of the Sierra Nevada mountains.

One favorable omen is, that no sooner was the Rappahannock located, recorded, and its worth made known, than it was claimed by outside parties, who probably never saw the lode. But you are aware, Mr. Editor, that all first-class lodes are apt to have many claimants, and we can hardly expect this district to form an exception. Already we have a town laid out by an enterprising party of capitalists and professional gentlemen from Aurora, and work commenced in turning one of the large mountain streams, so that the town of Montgomery may enjoy undisputed right to a full supply of good water. Situated as we are within one day's drive of Owensville, and a rich agricultural valley, hardly surpassed by the far-famed valleys of Napa and Sonoma, with abundance of grass and good water, a climate unsurpassed for health and mildness of temperature, with an inexhaustible forest of timber, extending from the base to the summit of the Inyo mountains, together with water power afforded by Marble, Union, Crystal Falls and Mill creeks, to drive any number of stamps that capital and enterprise may bring in; and we *do* believe the day is approaching, and is even at the doors, when Montgomery will occupy a place among the mining districts of the eastern slope, in every way worthy of the name.

Montgomery.

Montgomery District, March 7th, 1864.

The Baker Copper Mining Co.—This mine is situated in Garden Bar District, Placer county, about four miles from Lincoln, which is the principal town of the District and a depot of the California and Central Railroad. The mine presents a most favorable aspect in every particular and bids fair to equal in richness any mine on the coast. There are 1000 feet of the ledge, and a shaft has been sunk to the depth of 95 feet, revealing in its progress increased richness. As the shaft is continued, levels will be run, as may appear to advantage. The first level produces about ten tons of ore per day, consisting chiefly of the blue and green carbonates, together with silver and gold. The average assay of the ore yields 30 per cent. of copper, 13 ounces to the ton of silver and $33 of gold. The ledge is from four to six feet in width and increases in measurement richness as it deepens. By the middle of April, it is expected that 30 tons of ore will be daily extracted. This ore is sent directly to Swansea, Wales; 50 tons having already gone forward and one-hundred tons are awaiting shipment in this city. The main shaft will be continued with drifts wherever favorable indications occur. This mine is owned by five persons and the stock is not in market for sale.

Adjoining the Baker Co. is a gold quartz lead about 20 feet wide, the ore from which now averages $30 per ton and as work progresses, it shows increased richness. The indications are that it will prove a very valuable mine. The country in the vicinity of these mines presents a beautiful appearance, being made up of level land and rolling hills. Water and wood are sufficiently abundant for all mining purposes and it is well worth the time and expense to any prospector or curiosity seeker to visit the district. The expense of getting to the mines via. Sacramento by steamer, and per railroad to Lincoln and thence by horse, is about $12—making it a mere pleasure trip.

The Drought and Earthquakes.—Don Salvio Pacheco, an old resident of California, and a very intelligent and reliable gentleman, informs the Contra Costa *Gazette* that from the year 1824 to 1826 scarcely any rain whatever fell, that cattle died by thousands, and that earthquakes were very frequent, and so severe that in some instances adobe buildings were thrown down and the inmates buried in the ruins.

Nevada County Correspondence.

Nevada City, March 21, 1864.

Editors Scientific Press:—Mining news from this part of California bears much the same general character as that from most all mining portions of the State. The great cry is for water, and people are becoming impatient in waiting for the aqueous floods. The exhaustion, or working out of so many of the formerly rich placer and hydraulic diggings, added to the drought and the excitements in, or allurements of Nevada Territory, have a visibly unhappy effect here. Hundreds having comfortable homes in this county will dispose of them for but a small percentage on their original cost, or abandon them without receiving any compensation whatever, and hasten to the "Great Basin" with barely enough means to land them somewhere in that sage brush region.

In regard to mining here it is almost wholly confined to quartz. Of some eight or ten quartz mills in and about this city nearly all are kept in motion; at least but one or two are permanently idle. In the absence of water it might reasonably be expected that a stimulus would be given to quartz prospecting, but such does not appear to be the case. People insanely leave (at least I think so,) a country rich in minerals, producing fruit and vegetables in abundance, forsake the endearments of pleasant homes, society and civilization, blindly turn away from these advantages, and risk health, life and means among the desolate, sun-burnt mountains or alkali plains of Nevada Territory. The eastern portion of this county is, as I presume you are aware, unsettled, unprospected, and comparatively unknown, except to a few men engaged in hunting for game. Enough information however has been received respecting it to render it certain that gold deposits in quartz exist much nearer the summit of the Sierra than has been generally supposed. Numerous large and well defined quartz ledges south and east of Eureka on the Henness Pass road, are known to contain gold, but are undeveloped. They are in a region, compared with any part of Nevada Territory, easily accessible, abounding in good timber and plenty of the purest water. I may be in error, but I will hazard the remark, that fifty prospectors daily, in going from this city to Virginia, pass over a better and richer mining country, all things taken into consideration, than they will find on the other side of the mountains. Between Eureka and Canon Creek—which empties into the South Yuba, six large ledges have recently been located, and incorporated by the Star Quartz Mining Company of this city. These leads are from two to ten feet in width, well defined and can be traced a great distance on the surface. The above company have thoroughly tested four of their leads, and although the average yield of the rock does not reach any fabulous sum, yet considering the size of the ledges and the cheapness with which the quartz can be taken out, it is sufficient to render the prospects of the company decidedly flattering. The first rock crushed from the "Moonlight Ledge" yielded $52 per ton; from the "Star" $35; and from the Orleans $22. Thousands of tons of rock from these leads can be taken out and delivered on the spot where the company are about to erect a mill at less than two dollars per ton, while the cost of crushing is estimated at only three dollars. The Star Company have already expended a large sum in prospecting their ledges, and are satisfied that they have in them an inexhaustible quantity of rock that will pay well, and give employment to a large number of men and stamps. In the vicinity of these leads are many others that have good surface indications, which have hitherto remained unprospected, but are destined (as soon as the Washoe excitement will permit!) to receive the careful attention of the miner and capitalist. Rock now being taken from the "Fidelity" Ledge, near the mouth of Cañon Creek, on the Yuba, bears positive evidence of being exceedingly rich. The ledge is large and appears to be extensive. A water mill has been erected near this lead, but the absence of rain or snow in the mountains has rendered it useless thus far.

Beaumont.

More Whisky Material.—We have great news for the topers. Whisky and brandy can now be made out of coal gas, which consists of carbon and hydrogen, as does alcohol, with the addition of oxygen. For several years past the process of converting olefiant gas into spirit has been talked of, but now a French patent has been obtained for the purpose, and sold to a company in London. You add a little oxygen and a little hydrogen, and, presto! you have a bottle of brandy.

MINING GOSSIP.

EDITED BY FRANK WARDELL.

OBITUARY.

Death of Mr. John Young.

It is a sad task we are called upon this week to announce the death of Mr. JOHN YOUNG, an old resident and pioneer on the Pacific coast. Mr. Young arrived in California in the year 1846, having left home with the intention of joining his uncle, the late John Wilson, of San Luis Obispo. For quite a period after his arrival here, he traded extensively between California and the Mexican coast. In the year 1850 he received the important appointment of Superintendent of the renowned New Almaden mines, in which capacity he continued until 1863, when the property was disposed of to the Quicksilver Company. In December last he was elected President of the famous Gould & Curry Mining Company, and occupied that position up to the time of his death. He was a native of Scotland, and at the time of his decease was in the prime of life, being only in his 40th year. From his early youth he was distinguished for his industry and perseverance in business, and a high reputation for promptness and integrity in all mercantile pursuits. He was also kind-hearted and benevolent in all his relations, and ever ready to contribute aid for the relief of the suffering and destitute.

It would be vain talk to portray the many excellencies of character possessed by the deceased. He leaves behind him an interesting family, in very independent circumstances. His early and sudden demise will be sincerely lamented by them, and by a wide circle of friends. We tender to the afflicted family the sincerest assurances of our deepest sympathy and condolence in this our mutual affliction. We are aware that all the bright appendages of earth fall on the heart during the hours of each deep and weighty dispensation, and we gazed with silent awe on those once bright eyes in which had beamed the last expiring intelligence of love and friendship. They are now closed from earth forever. Yes, he has passed away like a flower that has fallen to the earth; but its perfume will never depart. Alas! the world was not long for him. He had fought his battles bravely, shook hands and departed. Now he is enshrined in all the dignity of death, pale and pure, a marble statue, a God-wrought monument to his own virtues, which were many and great.

> But he is blest; and though the charm is o'er
> The secret spell, and no more
> To glad the heart, the drooping circle cheer
> To fill a heartless void he may appear.
> Yes, he is happy; happier far than e'er
> Was mortal pilgrim in this world of care.
> From sorrow, sin and suffering he's at rest;
> Be this our consolation: he is blest.

Subjoined will be found the resolutions which were passed and adopted by the Trustees of the Gould & Curry Mining Company in honor to his memory:

Office of the Gould and Curry Silver Mining Company, San Francisco, March 22, 1864—At a meeting of the Trustees, held this day, the following preamble and resolutions were adopted:

The Trustees of the Gould and Curry Silver Mining Company have heard, with emotions of deep regret and sorrow, of the decease of their late President, MR. JOHN YOUNG, they desire to bear public testimony of their appreciation of the great loss which has been sustained in his death, not only by the whole community, of which he was a valued citizen, but more especially by the Trustees and stockholders of the corporation over which he had so recently been called to preside.

Gifted with business capacity of the highest order, and with sound and unerring judgment, his mental resources were equal to all the demands and emergencies of the large interests which were under his supervision. Governed by a rigid integrity, a strict impartiality and sense of justice, unwavering devotion and industry in the discharge of his duties, he was equally marked by the urbanity of his manner and courtesy of demeanor toward all with whom he had relations, which pointed him out as a Christian man and a true gentleman:

Therefore resolved—That in respect to the memory of our late President, the office of the Gould and Curry Silver Mining Company shall be closed until Thursday, 24th inst.

2d. That the Trustees and officers of the Company attend his funeral.

3d. That a copy of these preamble and resolutions be sent to the family of the deceased, and be published in the daily papers of the city.

By order. J. M. SHOTWELL, Secretary.

REMOVAL.—Messrs. Denckla & Chamberlin, Stock and Exchange Brokers, have removed their place of business to the corner of Clay and Montgomery Sts.

SUIT AGAINST A MINING COMPANY.—P. C. Aignes on the 22d inst., commenced suit against the Fellowes Mining Company for the recovery of the sum of $729, which he states is justly due him for work he has done in the mine.

FEET! FEET! FEET!—Mr. Parker wants his feet, and demands the same from the Ophir of the Colorado Company, by instituting a suit in the Fourth District Court. He says the Company refuses to issue him 200 feet of the stock, which belongs to him as one of the original locators.

EUREKA G. AND S. M. CO.—The Trustees of this company have declared a dividend of 1⅓ per cent. on the capital stock. The same was payable on the 23d inst.

ANOTHER NEW MAP.—Mr. A. K. Bishop has finished a neat and correct map of the Alsop Company's lodes, being those that were originally located by him in Sierra county. It comprises the Hebrew, Ohio, Pocahontas, Washington, Narragansett, Cox and Mammoth No. 2. There are a variety of other claims on the map, which are located in the same vicinity, owned by other parties, independent of this company's lodes.

COSALA SILVER MINING COMPANY.—This company has received, during the past week, from their mine in Mexico, nearly 500 ounces in bullion. The company have in progress a fine mill, which they expect to have completed in a few months. The cost of the same, when completed, will be in the vicinity of $10,000, exclusive of transportation, which will be very expensive.

HARMON CO., EL DORADO.—The excitement heretofore prevailing in this stock has, so it seems, wonderfully subsided and left, no doubt, many buyers at high figures in a *harmonized* condition. We trust our friends up country won't think hard of us for this joke.

FAILURES.—Two important failures among our stock operators have been announced upon the street during the past few days. As we can find no certainty attached to the rumor, we refrain from making the names public. The facinations of Lady Bryan have been, we learn, one of the prime causes of their downfall.

CROCKET G. & S. M. CO., ESMERALDA.—We should judge, if appearances in the way of prices, etc., are any indication that this claim had caught the prevailing disease from their neighbors, the Real Del Monte and Wide West Co's. The stock has been thrown on the market, in large quantities, and sold at very low figures. The reports we hear concerning it are anything but favorable.

DULL TIMES.—The brokers up in Washoe seem to have had a touch of our dull times, according to the accounts from their papers lately received here. They say that times are very quiet. Wild cat stock has not the least attention shown it, and stock even well known and in fair market standing is not offered in the Board for sale on account of the ridiculous bids that are made.

REAL DEL MONTE.—The accounts which are being constantly received here, we must say, are very encouraging ones to the stockholders. They continue to take out plenty of good pay rock, and have now the Stark & Tucker mill, on Bodie Gulch, running steadily night and day, on their ore.

GARRISON AND TUCKER AFFAIR.—The examination of John W. Tucker upon the charge of being the party who caused certain fraudulent dispatches to be forwarded to this city, regarding the Wide West mine, came up in the Police Court on the 25th inst., when the counsel for the defendant pleaded the statute of limitations—that more than one year having passed since the alleged charge had taken place previous to the entering of said complaint. The prosecution admitted the plea, and the case was therefore dismissed by the Court. Thus ends for the time being, the sensational romance of the Wide West. Mr. Tucker came out with an excellent card in an evening paper, vindicating his character, etc. If space would admit, we would like to publish it, but we are compelled to forbear.

BROKERS ON THE MUSCLE.—On the afternoon of the 25th, quite a lively and scientific pugilistic encounter took place between two prominent members of the 1st Board. The artistic manner displayed in the fight really reminded us of the days of the old Indian *hunters*, and the bravery could not have been excelled even in the days of *Perry's* victory. Come, gentlemen, this idea of knocking each other down is poor policy—you should confine that part of the business exclusively to stocks.

RICH.—New and extensive diggings have been found near Little Grass Valley, in Plumas county. From all accounts, says the Quincy *Union*, the mines there are as rich as any in the Boise River region. All the trouble is, they are not a thousand miles away, else there would be a "tremendous rush" and excitement.

BEST & BELCHER M. CO.—From recent accounts received from the superintendent of the mine (who by the by is a reliable and competent manager) it appears that they are down in their shaft 390 feet, and commenced a few days ago to drift for the ledge. Most of this stock is held by a few private parties and very little offering on the market for sale. The affairs of the company were never in a better condition than at present.

LADY BRYAN.—This stock has been the principle and leading feature in the mining share market during the past week. Immense quantities have changed hands at advanced market rates, owing to the receipt of several favorable despatches stating "they had struck the ledge in the lower drift very rich." It is said that the rock is of an entirely different character from what was discovered sometime ago, and, in appearance, at least, looks much richer.

BUCKEYE.—A. W. Stetson, Superintendant of this mine, reports that everything is progressing finely, the quartz has a good appearance, is becoming harder and the ledge widening as they go down.

HEAVY SALES.—There was $49,000 worth of Greenbacks sold in the first Stock and Exchange Board, on the afternoon of the 25th.

BURNING MOSCOW STOCK has advanced in price, and quite a quantity has been silently purchased on the "outside." We would not be surprised to see this stock take another flight. It is almost time.

SALT MINES.—The Sand Spring salt mines on the Reese River Road, N. T., produce thirty tons of salt per day, covering eighteen hundred acres, and the salt is from fifteen to twenty feet deep.

PETER DONAHUE, of this city, according to the Marysville *Appeal*, has purchased two hundred and fifty acres of the Stockton Ranch, opposite the Race Track near that city, where he intends to erect a country residence.

THE MEXICAN MINE, according to the Virginia *Bulletin*, yielded a net profit of $104,060 during the month of February. This is at the rate of $1,040 per foot—a pretty good monthly dividend.

IMPORTANT petroleum discoveries are reported in Southern Russia.

More about the Treatment of Gold Ores.

Allow me, Mr. Eaton, to make a few remarks on the subject of roasting and working some of the gold ores in this State.

The article in your last issue, entitled "Treatment of Gold Ores" gives the experiments made by some Russian officers on different ores, for the purpose of ascertaining the loss of gold, if any, sustained by a metallurgic roasting process. As the results of these experiments differ widely from those obtained by several eminent metallurgists in Europe; also from those made by the writer, in this State, with your permission I will give the result of my own experiments on some gold ores, well known in this State; also the probable cause of the difference of results obtained, from those alluded to in your editorial of last week.

It appears, that the Russian officers in their experiments used gold, *chemically prepared*, i. e., precipitated from a solution of chloride of gold. Gold so prepared, as every metallurgist knows, is extremely fine—fine enough, in fact, to be held suspended in water for many hours. That even the finest of our quartz gold is much coarser than that chemically prepared is evident from the fact, that it falls to the bottom, in water, directly—a few particles excepted, which are held up by gases. We may thus understand at a glance, why the chemically prepared gold in the finest atoms, is carried off by the draft, while such loss does not happen with comparatively coarse quartz gold.

A few well established facts in my own experience will place the subject in its true light. I will first cite an experiment on the Big Blue Company's quartz rock, of Kern River, containing only a small per cent. of sulphurets of iron. It should be understood that the gold in this rock is remarkably fine; as fine as it is ever found in any gold bearing ore. No free gold is visible, as far as the writer's observations go.

These assays were made of crushed rock, without previous roasting—the sulphur serving as a means of reducing oxide of lead to metallic lead. No matt of lead. No alkaline sulphides endangering the correctness of result in smelting. The assays in each case showed a result of $150 a ton, in gold.

After a thorough roasting of the ore, without salt, it yielded, by clorination $140 a ton, in gold; the loss amounting to $10 a ton. Admitting a loss of $5 in handling the ore and loss of solution of gold—a very slight estimate—we have a loss of $5 in $150 gold ore, or three and a half per cent. in the roasting process.

This result is corroborated by another trial of quartz rock, containing about ten per cent. of arseniurets (mispickle, according to an analysis made at Paris, under the direction of the celebrated Rivot) from the Rock River Mine, Butte county, made for Messrs. Pioche and Bayerque of this city. The assay of rock made on unroasted ore indicated $620 gold. An assay of roasted ore showed only a loss of four per cent. by roasting.

Quite a number of other similar tests could be mentioned to prove the slight loss in roasting *gold ores*.

Platner, in his elaborate treatise on "Metallurgic Roasting Processes," though he finds, in a series of careful experiments in an extreme case, a loss of forty per cent. of silver by an oxydizing, roasting process, admits of only *a slight loss of gold*. The loss of gold found in some experimenting of this character he attributes to imperfect assays.

In the article in your last issue, above alluded to, I find some very curious theories advanced. Sulphurets of silver and *other products* are spoken of as formed by the process of roasting. Can any metallurgist explain how a sulphuret of silver can be a product of a roasting operation? It is generally supposed to be decomposed or transformed into metallic silver and sulphate in the roasting furnace.

Again the formation of sulphuret of gold in the furnace, is alluded to—a mere impossibility, as sulphuret of gold would be readily decomposed, at a low heat to metallic gold and sulphurous acid.

Again, the article cited in Philip's Metallurgy has no reference to a roasting, but to a smelting operation, and can therefore have no bearing on this subject.

In your next issue, I will give, with your permission, the comparative results obtained from working green and roasted gold ores, by melting, chlorination, and amalgamation in some of the improved pans, as obtained in this State for the last six years.

G. F. Deetken.

San Francisco, March 24, 1864.

Remarks:—Our correspondent is very critical in his interpretation of the line which was printed thus:—[go'd] "associated with sulphuret of silver, and other products formed by the process of roasting."

The sentence above quoted is somewhat ambiguous, we admit. The writer must have intended to convey the idea that "other products" than sulphurets were formed "by the process of roasting," or we must suppose an error in the text and read *sulphates* instead of *sulphurets*; or as the sulphuret of silver is the last sulphuret which is oxydized in the furnace, the operator might have experimented with a degree of heat which would have allowed the sulphuret of silver to have remained unchanged, while "other products formed," might have been in a condition, or in such a manner associated with the gold as to hinder the amalgamation.

We did not quote the opinion of Degerhard as implying more than the existence of a sulphuret of gold in nature—the conclusion, only, of the sentence applies to the furnace.

Our correspondent is correct in his reference to our quotation from Philip's Metallurgy. An important object in introducing the article in our last issue was to provoke discussion. This we have accomplished. We trust our correspondent will not forget his promise to give us some further information with regard to his experience in working sulphurets. We are aware it has been large and practical. His communications will no doubt be read with profit as well as interest. We trust that we may hear from others also upon this and kindred subjects.

Mechanical Puddling.—A patent has been granted to Mr. Henry Bennett, ironmaster, of Wombridge Ironworks, Salop, for an improved apparatus for facilitating the puddling of iron, the object of which, as we learn from the *Mining and Smelting Magazine*, is to apply mechanism, worked by steam or any other motive power, to assist the workmen in the process of puddling. This is effected by a shaft working horizontally endwise, or backwards and forwards like the piston-rod of an engine. This shaft can be extended to serve several furnaces, and to it is attached a connecting rod moving a sliding piece backwards and forwards in a slide, connected with which sliding piece there is a vertical shaft, at the top of which the puddler's rabble or tool should rest so as to participate in the motion of the vertical shaft; which shaft can be moved around to different angles by means of a rachet motion, so that the puddler can guide the rabble to different parts of the furnace. By means of this invention a puddler will be enabled to work with ease a larger quantity of iron in each change, thus effecting a saving of fuel, time, and labor, to change his tool as readily as before, and still to work in the ordinary way independent of the apparatus at any moment by disconnecting it. A larger furnace may also be used, and several rabblers worked at the same time, if thought proper.

Grass Valley, in Nevada county, sends to this city more gold from her mines, than any other town or city in the State, from its own particular mines.

A New Daily.—We understand that the Esmeralda *Star*, now published weekly, is soon to appear as the *Daily Union*.

WASHOE STOCK MARKET.

SALES AT THE VIRGINIA AND GOLD HILL STOCK BOARDS

Ten feet Lady Bryan at $53; Ten Caledonia Tunnel at $30; 5 Silver Vale at 5; 10 Champion at 3, buyer 30 days; 10 Gentry a 4 50; 5 Grass Valley and Napoleon at 2; 4 Rock Island at 15, buyer 30 days.

Ten feet Palo Alto at $2; 20 American Flat at 1; 10 King Solomon at 75cts.; 10 San Francisco at 2-50; 10 Pony Express at 4 50; 15 Sacramento, Sierra District, at 2; 25 Pony Express at 5 50; 25 King Solomon at 62 50; 5 Grass Valley and Napoleon at 1 75.

Two feet Bullion, Gold Hill, at 79; 5 Pony Express at 4 50; 10 do at 4 50; 5 New Oregon at 14; 40 Rhode Island at 23, buyer at 60 days; 10 Wingarduer at 3; 5 Bullion, G. H., at 79.

Ten feet Belle Vernon at 4 50; 20 New Oregon at 17 50, b 30 d; 5 Lady Bryan at 42 50, s 30 d; 5 do at 42 50, s 30 d; 10 Silver Vale at 4 75; 5 Pride of America at 2; 10 Pompey at 28.

Ten Mary Ann at 80; 50 Globe, 16; 25 do 16; 10 Leon, 20; do 20; 5 do 17; 10 White & Saaders 1 50; 10 Branch Mint, 18; 5 Lady Bryan 45; 20, Rock Island, 12 50; 40 Toatine, 11; 10 Randolph, 6; 100 Richelieu, 5.

Five feet Golden Swan, at 19 50; 5 North Ophir at 3; 10 Palo Alto at 2 50; 5 Kossuth at 3; 20 San Bernard at 5; 5 Jenny Lind at 5; five feet of Irving sold at 10; 10 Grass Valley and Napoleon at 25.

Ten feet Rock Island at $14; 8 do at 13; 10 Lady Bryan at 53; 40 South Overman at 6; 20 do at 9; 20 at 10; 150 Richelieu at 5.50; 50 Cresent at 7.50; 10 Justice at 220; 5 G. H. & V. Divide at 7; 10 do at 8; 20 do at 9; 50 Arizona at 15.50; 20 do at 16.50; 17 Globe at 17; 5 do at 17.50; 10 Contiaeatal at 3; 20 South Overman at 9; 20 do at 9.50; 10 Arizona at 15; 5 do at 16; 5 Consolidated Co. at 55, b. 30 d.; 10 Globe at 17; 20 do at 15.50; 10 do at 16; 5 New Oregon at 15; 10 Rock Island at 12.50; 10 Tontine at 11; 10 Richelieu at 6; 15 do at 6.50; 10 Jewett & Sheppard at 5; 50 Crescent at 7.50; 10 feet Irving at 10; 10 do at 12 b. 30; 25 Pony Express at 4; 10 Palo Alto at 2; 10 Kossuth at 3; $150 in Legal Teaders at 65 cents; 15 feet Richelieu at 6; 25 feet Eastern Crown Point at 2.50; 20 Pride of America at 2.50; 10 Lady Bryan at 53; 10 feet Rock Island at 14; 40 South Overman at 6; 20 do at 10; 150 Richelieu at 5.50; 100 Cresent at 7.50; 10 Justice at 220; 5 Gold Hill & Virgiaia Divide at 7; 10 at 8; 20 at 9; 60 Arizona at 15.50; 20 at 16.50; 17 Globe at 17; 5 at 17.50; 10 Continental at 3; 20 Soutb Overmaa at 9; 20 at 9.50; 20 Arizona at 15; 5 at 16; 5 Consolidated Co. at 55 b 30; 10 Globe at 17; 20 at 15.50; 10 at 16; 5 New Oregon at 15; 10 Rock Island at 12.50; 10 Tontine at 11; 10 Richelieu at 6; 16 at 6.50; 10 Jewett & Sheppard at 5.

Record of New Incorporations

The following is a record of the names of the companies, location of the claims, and the names of the Trustees mentioned in the articles of incorporation, filed in the County Clerk's office, in this city, since our last report:—

Ida S. & G. M. Co., Lower California; Geo. Pardon, H. Fisher, C. Avery, J. P. Fuller, Benj. Wallis.

Live Yankee G. & S. M. Co., Reese River: George T. Sharp, M. B. Sweeny, L. Sawyer, G. F. Walter, Wm. Kenny.

San Francisco G. & S. M. Co.; same as above.

Stony Point Tunnel Co.; same as above.

Massachusetts G. & S. M. Co.; same as above.

Waverley G. & S. M. Co., Amador county, Cal.; O. Livermore, J. Wilson, A. P. Hotaling, E. L. Billings, Geo. Stevens.

Rochester Consolidated G. & S. M. Co., San Bernardino county, Cal.; H. S. Brown, C. J. Hawley, Miles Mills, O. C. Mitchell, Peter Blohm.

Emilia M. Co., State of Guerrero, Mexico; Justinian Caire, Geo F. Hopman, Celestin Ringen, Jacob Knell, P. Lerser.

Saratoga G. & S. M. Co., Lander county, N. T.; R. S. Eells, Wm. Hollis, D. Van Houton, L. P. Smith, S. C. Blake.

Walker G. & S. M. Co., Lander county, N. T.; R. S. Eells, William Hollis, W. G. Blakely, F. Clark, S. C. Blake.

Loomis G. & S. M. Co.; same as above.

Dashing Wave G. & S. M. Co.; same as above.

Delta G. & S. M. Co., Lander county, N. T.; R. S. Eells, Wm. Hollis, J. J. Heath, W. G. Blakely, S. C. Blake.

Bueno Plata Consolidated M. Co.; Castle Dome district, N. T.; E. C. McComb, H. Sage, J. M. Eckfeldt, Geo. C. Waller, R. H. Waller.

Victor G. & S. M. Co., Alturas county, I. T.; William Ireland, S. J. Williams, F. O. Nelson, J. B. Burdick, J. N. Snydam.

Eureka Consolidated S. M. Co., Eureka district, A. T.; W. Quale, H. Gallagher, B. T. Templeton.

Ontario G. & S. M. Co., Mono county, Cal.; E. B. Kittredge, J. B. Lovett, Geo. Bennett, W. H. Delano, B. Chester.

Webster G. & S. M. Co.; same as above.

NEVADA TERRITORY.

We gather from the Territorial papers the following names o mining companies which have recently filed papers of Incorporation in Nevada Territory:—

Walton G. & S. M. Co., Indian Spring district; G. W. Walton, C. A. Witherell, T. H. O. Walton.

Whitman G. & S. M. Co. No. 2, Indian Spring district; C. McWilliams, J. R. Green, John Lindsey.

Enterprise G. & S. M. Co., Indian Spring district; G. W. Walton, S. S. Chinn, C. A. Witherell, J. S. Crossman, E. U. Spashett.

Gen. Banks and Grey Eagle Consolidated M. Co., Blue Sulphur Springs district; J. F. Dolliff, J. Fox, Charles Chant.

Mary De Neale M. Co., American Flat district; Ed. Patten, F. A. Ellis, John B. Harmon.

Montreal S. M. Co., Gold Hill district; —Herman, J. T. Scheel, T. Sutherland, H. M. Yerrington.

American Shield M. Co., Red Mountain district; A. McCran, N. G. Orrick, W. F. Hale.

Stars and Stripes M. Co., Red Mountain district; W. E. Naval, A. McCran, H. C. Brooks.

Argentine G. & S. M. Co., Palmyra district; N. P. Sheldon, C. McDermit, W. G. Lee, J. J. Roberts, Thomas Wostell.

Trio G. & S. M. Co., Palmyra district; M. A. French, H. C. Lincoln, F. H. Kenedy.

Mechanical Department.

An Immense Casting—The largest Cannon in the World.—The announcement was made about a year ago that preparations were making at Pittsburg for casting a 20-inch gun, that would be capable of throwing a 700-pound shell or a 1000-pound solid shot. Actual work was commenced upon this piece of ordnance in May last. Its casting required the construction of new buildings, furnaces, cranes, etc. The mould was placed in a pit. The casting was done on the Rodman, or hollow cone principle. The core consists of an iron cylinder, half an inch in thickness, through which a stream of water was kept continually running during the process of casting. This cylinder was wrapped with rope, which was covered by sand, and outside of this for a short distance from the mouth of the mould, was a sheet iron cylinder. During the casting a stream of water was kept running through this cylinder to keep it cool. The water as it was discharged indicated a temperature of about 42°

In the casting three furnaces were used, in which 80 tons of metal, pure Juniata iron, were placed. The furnaces were fired at 5 A. M., and in six hours the metal was all melted. It was conveyed from these furnaces by troughs to a common reservoir, from which it was subsequently conducted to the mould, by another trough. The process of casting is described as having presented a most animated scene, the sparks flying in a million corruscations, and the metal generating a gas, which burned with a blue flame. It was a complete success.

The casting was perfected without the slightest confusion. The rough weight of this monster piece of ordnance is about eighty tons. Its length twenty-six feet; its maximum diameter five and one third feet; its minimum diameter 2 feet and 10 inches. This gun is the largest in the world, and it is to American genius and American mechanics that the honor belongs of adding such an immense piece of ordnance to military science.

The casting was made on the 11th of February; and it was expected it would have to remain in the pit some ten or twelve days before it would be cool enough to handle. The gun will probably be placed at the narrows, as a defence of the harbor of New York. Its cost thus far has been $30,000, to which $5,000 more will be added for finishing; and how much more for placing in position will depend upon circumstances. A single shot from this monster gun, fairly delivered, would be pretty likely to crush and destroy any ship that ever floated.

A New Lubricating Material.—Mr. F. Janssen, proposes, as an improved composition to be used for lubricating purposes, a mixture of fatty matters and lime-water. The proportions vary according to the consistency which it is desired the composition should have. For a hard compound he proposes to use, of olive, colza, or neat's-foot oil, 500 parts; and lime water 2,000 parts. For a semi-hard compound he uses olive, colza, or neatsfoot oil, 1,000 parts; and lime-water, 1,000 parts. For a liquid lubricant, he uses olive, colza, or neatsfoot oil, 1,000 parts; lime-water, 2,000 parts. The lime-water is a saturated solution of lime. The fatty matters are first melted, and well mixed together, and then thoroughly mixed with the lime-water.

Correction.—In our notice of Farrand's amalgamator, last week, the compositor made us say that the machine would be constructed of various capacities, to work from 300 to 600 lbs.—it is perhaps, needless to say that we wrote "6000 lbs." instead of "600 lbs."

A Substitute for Ivory.—Messrs. Phelan & Callender, the well known billiard table makers, offer a reward of $10,000 to any one who will produce a substitute for ivory, such as can be employed in the manufacture of billiard balls.

Swift Steamers.—The City of Buffalo, a lake steamer, the Mary Powell and the Daniel Drew, Hudson river steamers, can under favorable circumstances make an entire trip at the rate of twenty-five miles an hour, running time. The two latter named have even exceeded this speed, for short distances. They are probably the three fastest steamers in the world. Their speed is equal to the average of a railroad train.

Extraordinary Power of Resisting Heat.

The power of superior animals, and especially of man, to resist high degrees of temperature, is very extraordinary, and was at first discovered by accident in the following manner:—

It is well known that the natural temperature in this country is not far from 96° Fahr. But Dr. Fordyce, formerly physician to St. Thomas' Hospital, London, went into a room heated to 120°, where he remained twenty minutes, and afterwards into a room heated to 130°, and remained fifteen minutes, while the thermometer in his hand rose only to 100°. Sir Joseph Banks, Dr. Solander and Sir Charles Blagden remained several minutes in a room heated to between 196° and 211°, the temperature at which water boils; and the latter of the above gentlemen remained eight minutes in a room heated to 220°. We have accounts of a young female at Rochefoucault, who was in the habit of staying ten and twelve minutes at a time in an oven heated to 276°, and Tillet and Duhamel informs us that they bore a heat of 299° for nearly five minutes.

Chantry, the sculptor, often entered his furnace, when heated for drying his mould, to 320°, and his workmen did the same with impunity when the thermometer was up to 340°.

A dog of moderate size was subjected to a heat of 120°—30 minutes the heat was 236. On being taken out, the bottom of the basket was wet with saliva. By the same heat, beefsteaks were cooked in 30 minutes, and in 20 eggs were roasted hard.

Most of our readers have probably heard of Mons. Chanbert, the "fire king," and who, as is stated by Dr. Dunglingson, entered an oven when the heat was raised above 400°.

And we find the living body possessed also of the same power to generate caloric. We have seen that its natural temperature is about 96°; but in the account of Capt. Parry's voyage to the Arctic seas we are told that his crew were frequently exposed to a temperature of 50° below zero, and 150° below that of their own bodies, without being frozen!

In the year 1760, at Rochefoncault, Mons. du Hamel and Tillet, having occasion to use a large public oven on the same day on which bread had been baked in it, wished to ascertain with precision its degree of temperature. Being at a loss how to proceed, a girl, one of the attendants on the oven, offered to enter, and mark with a pencil the height at which the thermometer stood within the oven. The girl smiled at Mr. Tillett's surprise at this proposition, and entering the oven marked the thermometer as standing at 260° of Fahrenheit's scale.

The female salamander assuring Mr. Tillet, who pressed her to return, that she felt no inconvenience from her situation, she remained ten minutes longer, the thermometer then standing at 288°, or 76° above boiling water; when she came out her complexion was considerably heightened, but her respirations by no means quick or laborious. This was afterwards made the subject of accurate and decisive experiments by Sir Charles Blagden, Dr. Fordyce, and others. Dr. Blagden entered a room, heated by flues in the floor, when the thermometer indicated a heat above that of boiling water. The first impression of this heated air upon his body was exceedingly disagreeable, but in a few minutes all uneasiness was removed by the breaking out of a sweat. At the end of ten minutes he left the room much fatigued, but not otherwise disordered. The thermometer had risen to 220°. In other experiments it was found that a heat even of 260° could be borne with tolerable ease. At these high temperatures, every piece of metal about the bodies of the experimenters became intolerably hot; small quantities of water placed in metallic vessels immediately boiled; eggs placed upon a frame were roasted hard in twenty minutes, and a beefsteak was overdone in thirty-three minutes. Notwithstanding the great degree of heat to which the experimenters were exposed, the temperature of their bodies was not raised. Animals are also capable of living in temperature of extraordinary elevation, even in the dense medium of water. In the thermal springs of Bohemia, in Brazil, small fishes were seen swimming in a rivulet that rises the thermometer to 88°, and fish have been found existing in a hot spring at the Manillas at 158°. The power of resisting temperature belongs almost in an equal degree to the vegetable world.

Percussion generates heat. Most of the elongated shells now made for service against iron-clad ships have no fuses; the heat evolved at the moment of impact being sufficient to explode the charge.

Strong soap suds is said to be just as good to use in drilling wrought iron as oil. It is certainly much cheaper.

The Other Side—Discouraging for Idaho.—Recent accounts from the Boise country are somewhat conflicting with regard to the richness of that region. The gold is of a very poor quality—worth only from $10 to $12 per ounce. The diggings are said to be very much scattered over an extensive region, and rich only in isolated patches, and that they will not support but a very small proportion of the thousands that are rushing thither. It is not denied that gold is found there, but it is asserted that Idaho is far from being a second California. The Butte *Record* has seen a letter dated "Elk City, Idaho Territory, February 12th, 1864," which it considers reliable, and which says: "The Boise mines, to the best of my knowledge, are, in a few instances, rich, but the country is overrun with people, and has been since its first discovery. I am in private correspondence with a merchant in Boise, and he positively asserts it's nearly played out. It will require a large amount of capital before the country can possibly amount to much. I would advise every one making grub to stay where they are." The Muscatine (Iowa) *Journal*, of a late date, notices the return of Judge Hoyt from the Bannock mines. He says: "The mining reports from that quarter have been greatly exaggerated, and that most of the money made is derived from trading. The people of the States can safely discount the reports sent from the mining district. In nearly every instance a speculator will be found at the bottom of it." The Portland *Oregonian* states that the amount of assays in the city of Portland for the year 1863 amounted to over four millions of dollars. A gentleman now resident at Colusa, who has recently returned from Idaho, says that most of the gold extracted from the Idaho mines is taken eastward by way of Salt Lake. We give the above rumors and reports for what they are worth.

Petroleum in Michigan.—Michigan is getting into a *furore* of excitement over the recent petroleum discoveries in that State. In addition to the discoveries at Albion, oil has been found in Calhoun county. On the road from Marshal to Dry Prairie there are five oil springs. In Kalamazoo county there are a series of these springs. On the Pawpaw, Dowagiac and St. Joseph rivers there are also several which contain extensive deposits. The Michigan petroleum has been carefully analyzed, and found to be of a very superior quality. It has less odor than the crude Pennsylvania oils, and will yield 20 per cent. more of the refined article than the former. Its specific gravity is 40 degs. That of the Pennsylvania oil ranges from 45 degs. to 47 degs. The Albion petroleum is easily deodorized, and when refined makes a clear, white oil, that burns freely, and is entirely non-explosive. It yields but little naptha, and stands a fire test of 140 degrees.

Owens River.—The following particulars in regard to White Mountain District, Owens River, were furnished us by Mr. George W. Edgerton, who has recently returned from a four months' tour in that vicinity. Mr. Edgerton has visited the Colorado mines and Washoe, but, as a choice, has become interested in the Owens River mines, believing they present more inducements to the mass of prospectors than either of the other:—"Deep Spring Valley is a small valley, with plenty of grass, timber, and a fine stream of water, sufficient to run a large number of mills. Cottonwood creek empties into a valley about seven miles north from the Deep Spring. It contains water privileges for several miles along its banks. In the neighborhood of this locality there are about forty miners at work. The lodes in the district are well defined, containing both gold and silver. A large number of claims have been taken up, and in some cases are being worked and ores taken out, which prospect well. The Amazon lode, which is six feet wide, is being worked, and an assay of average rock in this city gives $123 in silver and $31 in gold. The Indians, who a year ago were so troublesome, are now quiet, and all that is now needed to fully develop the mines and yield a good return to adventurers, is capital to build one or more mills to reduce the ores."

Patent Department.

A New Quartz Crusher.—The Marysville *Appeal* has seen a model which the editor was informed was made as a pattern for machinery that was to be cast at the foundry in that city, for the West Walker River Mining Company. The entire model is not yet quite complete, but is in the hands of that skillful artificer in wood, Martiness, who is getting up a new style of amalgamator for that purpose. The model is being got up under the supervision of one of the resident Trustees, and bids fair to work a great revolution in the old style of quartz mills.

Patents at the South.—According to the Report of the Confederate Patent Commission, 223 patents have been issued by the Confederate patent office since the establishment of that office; 89 patents were issued the past year, 31 of which were for improvements in fire arms, projectiles and implements of war and machinery.

A New Gold Separator.—S. W. Wood, of Cornwall, New York, has obtained a patent for separating amalgam from pulverized rock, by centrifugal force imparted to the vessel in which it is contained, the same acting in conjunction with gravity to gather and collect in a mass, the amalgam at the periphery of the vessel.

New Railway Brake.—Some interesting and important experiments have recently been made in Belgium, to test the efficacy of a new railway brake, the invention of a lady, and which consists of the sudden application of a sort of wooden drag or wedge to the point of the wheel, by which it is instantly taken up from the track and the weight of the carriage or engine placed upon the drag, the friction being transferred from the wheel to the rail. The application upon the brake is transmitted by one individual pressing upon a rod, without the intervention of a screw. The experiments with this brake were performed under the direction of the engineer of the government railways in Belgium, and in the presence of a great number of other engineers of Belgium and other countries. The results are stated to have been far superior to those obtained with any of the ordinary brakes in use.

A Valuable Invention.—G. W. Coffee, the proprietor of the Union Foundry, Aurora, according to the Aurora *Times*, has made a great improvement on that part of stamps known as the shoe, and has taken the necessary steps to procure a patent. His improvement, or rather invention, will prove of great value, since it will add very little, if any, to the cost, and the shoe, when cast as per his manner, will last much longer, and in every way be better than the old style. We have learned, from those who profess to understand the system of casting shoes and pieces of light character, that great difficulty has been experienced in getting them solid If they were cast the stem up there was danger of not getting sufficient solidity to stand the concussion, and were liable to break. If the stem was cast down then the face of the shoe would be porous and of course wear away fast. Mr. Coffee obviates all, and casts them perfectly solid, and of that temper which will insure them to wear much longer.

Double Acting Washing Machine—*A California Invention*, by Henry Ward Charles of San Joaquin county. The principle of this machine is not unlike that of many others which have a plunger operating with a horizontal motion. The superiority of this consists in having the plunger work both ways, consequently this will do double the amount of work of any other machine, of similar construction, but with the plunger operating in only one direction, and with but a slight increase of power. Applications for letters patent have been made through the Mining and Scientific Press Patent Agency.

Bullion from Washoe.—The amount of bullion shipped by Wells, Fargo & Co., from Virginia City, during the week ending March 19th, amounted to 6,970 pounds, of the estimated value of $186,620.92.

The Mining and Scientific Press Patent Agency.

OFFICE, 57, GOVERNMENT HOUSE, SAN FRANCISCO.

Information About Obtaining Patents.

The Patent Law Amendment Act, of March 4th 1861, and March 3d 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent? A positive answer to this question is only to be had by presenting a formal application for patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the Mining and Scientific Press. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Preliminary Examinations.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search, made at the U. S. Patent Office, Washington, through the medium of our associate in that city, to ascertain whether among all the patents and models there stored, any invention can be found which is similar in character to that of the applicant. On the completion of this special search we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollars. This search, though it involves the expense just named, will usually prove satisfactory. If the same device has been before patented, the time and expense of constructing models, preparing documents, etc., will in most cases be saved; if the invention has been in part patented, the applicant will be enable to modify his claims and expectations accordingly. Many other obvious advantages attending the Preliminary Examination; although the strictest search does not always enable the applicant to know positively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publication; or some other person has been previously rejected on an analagous device; or some other invention for a similar purpose, but partially resembles the applicant's in its construction; or the Government makes an unjust or uncommon decision. Against none of these contingencies does the Preliminary Examination provide; it will, however, generally inform the applicant whether an improvement similar to his and used for the same purpose has ever been patented or not in this country.

Persons desiring the Preliminary examination are requested to remit the fee ($10), and furnish us with a sketch and description of the invention.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian, Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of governments that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues.—If the application is rejected we cause a thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have excess to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client. For this service we make no charge. If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The laws requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimensions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: Dewey & Co., Mining and Scientific Press, rooms 56 and 57, Government House, corner of Sansome and Washington Streets, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail.—The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due, and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued, the applicant will be notified to remit the last installment of the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Return of Models.

Under the new law, if the applicants case has been rejected he is entitled to withdraw his model from the Patent Office.

This law applies to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expense

Application for Patents, Designs, Trade-Marks, Labels, etc.

Under the new law patents may be taken out for any new form of any article, also for tools, patterns, castings, machine-frames, stove-plates, borders, fringes, all new designs for printing, weaving or stamping upon silks, calicoes, carpets, oil-cloth, prints, paper-hangings, and other articles. Trade-marks, labels, envelopes, boxes and bottles for goods, may also be patented; likewise all works of art, including prints, paintings, busts, statues, bas-relief, or compositions in alto, or basso relievo, new dies, impressions, ornaments to be placed upon any article of manufacture, architectural work, etc.

Our facilities for the prompt preparation and securing of patents are of the most extensive character and our charges are very moderate.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the tariff of fees established by law:

On every application for a design, for 3 years and six months	$10
On every application for a design, for seven years	15
On every application for a design, for fourteen years	30
On every caveat	10
On every application for a patent	15
On issuing each original patent	20
On filing a disclaimer	10
On every application for a re-issue	30
On every additional patent granted on a re-issue	30
On every application for an extension	50
On the grant of every extension	50
On appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, D. C.	25

Infringements.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunction from the Court, to an arrest of or prohibition from the employment of his machinery, shop, works, factory and men in production of the article.

In addition to injunction the infringer is liable to be mulcted in treble the amount of damages awarded by the jury. The maker, the workman, the seller, and the purchaser, if a user, are all liable either collectively or individually.

Having access to all the patents, models, public records, drawings and other documents pertaining to the Patent Office, we are prepared to make examinations and give opinions upon all infringement questions, advise as to the scope and ground covered by patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Appeals.

In rejected and other cases, the new law provides for an appeal from the Examiner-in-chief to the Commissioner in person, on the payment of a fee of twenty dollars. A further appeal may be taken from the decision of the Commissioner to the U. S. Court, of the District of Columbia. These appeals are heard by any of the Judges before whom the applicant elects to bring the case. No Jury. All the papers, models, etc., are sent by the Commissioner to the Judge, who then reviews the case, and either sustains or reverses the Commissioner's decision.

The party taking the appeal pays an additional fee of twenty-five dollars. The Judge appoints a day of hearing. The applicant can appear in person or by counsel to state his case and file a written argument. Five days are allowed the opponent to put in an answer, and a similar period to the appelant for a closing reply.

Many important cases are brought before the Judges on appeal and the decisions of the Commissioner are not unfrequently reversed.

We have had successful experience in conducting these appeals, and our services are rendered on moderate terms.

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For Sending East, no more valuable or appropriate publication can be selected than the Mining and Scientific Press. For sale by the principal newsagents.

American and Foreign Patents.—Letters Patent for Inventors can be secured in the United States and foreign countries through the Mining and Scientific Press Patent Agency. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past year.

Favorable to Inventors.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the Mining and Scientific Press, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

Will be Discontinued.—After this date subscriptions not paid for in advance will be discontinued. As soon as possible bills will be presented for all arrearages. Parties who receive a paper from the office of delivery cannot evade the law requiring payment for the same. We shall in future keep no continued accounts with subscribers, and the subscriptions of all friends and patrons will be treated alike.

San Francisco:

Saturday Morning, March 26, 1864.

Now Ready.—The *Mining Directory*, published and for sale at this office. Single copies fifty cents.

☞ Mining Notices will be found on pages 202, 205 and 208, of the present issue. ☜

☞ In the absence of our usual remarks on the Mining Share Market, we refer our readers to full reports of bids and sales, upon pages 204 and 205.

Prater's Concentrator.—*A California Invention.*—This is a new machine designed as a concentrator and saver of gold, quicksilver, amalgam and sulphurets. It is designed to be placed after the ordinary pans and amalgamators, and to concentrate and save the fine particles of gold that will not amalgamate, also the finely divided quicksilver and amalgam much of which is known to escape from the ordinary pans and separators in use. This concentrator consists of a pan with a convex bottom, discharging from the center and concentrating the gold and amalgam at the circumference. The motion is applied by two small cranks, one upon either side of the pan, giving it a sort of shaking motion. It is the invention of Mr. E. B. Prater, of Washoe. A wooden machine was put in operation at the American Flat mill, some months since, by Mr. M. Hungerford, and found to operate so well that he subsequently came to this city and had an iron machine constructed at the Vulcan Foundry, which is now running at Wheeler & Thayer's Reduction Works, North Beach. We saw the machine in operation yesterday, and have no hesitation in saying that its performance was most satisfactory. It was at work upon refuse sands, which have been run out of the mill, after passing though the ordinary pan process. About four tons of these sands were run through the machine on Wednesday, and ten tons of quicksilver and three pounds of amalgam, were taken out, in addition to the sulphurets which were concentrated. A pretty satisfactory result surely for waste sands. The machine is not costly, is extremely simple in its construction, and requires but little power. Several have already been ordered. Mill men visiting the city will do well to call and examine it as above.

The "Bulletin" Putting on Airs.—On Saturday last, the Pacific Board of Brokers, according to all accounts, did an immense business in stocks, and, as usual, the Secretary handed in his different lists of sales for publication in the daily papers. The *Evening Bulletin* declined to publish the list, but came out, instead, with the following ridiculous card:—

"Sales by the Pacific Board of Brokers, March 19, 1864.—This Board to-day seems to have done a big business, particularly in Lady Bryan stock. We cannot find room for nearly seventy quotations of one stock, varying only a dollar or two in amount, and where a multitude of trifling qualifications are added as to the particular day of settlement. The individual lots of stock generally consist of ten shares each. If the Secretary of the Board cannot contrive to condense his daily report, we must omit it altogether."

The above item exhibits a marked lack of courtesy, as well as a great degree of petulence on the part of the *Bulletin* reporter. He could readily have condensed the report, as he had often done before. He well knew that the Secretary had not the time to arrange, or rather condense them, as the Board is not out from their session until after two o'clock, and the *Bulletin* requires the report not later than a quarter past two. This uncalled-for and unbusiness-like suggestion regarding the condensing of sales, irrespective of the price, within one or two dollars, "buyer's" and "seller's" time, etc., is really quite amusing to men of even ordinary business qualifications. We look upon the advice given, as the majority of the brokers do, unbecoming a school-boy, much less such a "high-toned" would-be leading paper of papers. The *Alta* without murmur or comment, took upon itself the arduous (?) duty of arranging the sales, and published them in full. The *Bulletin* acted a part unbecoming a commercial paper, and gained nothing by the act, but received instead the condemnation of the entire stock dealers. Probably, if the truth were known, the *Bulletin* would like this Board to pay a handsome figure for the publication of their sales; and thought, no doubt, the course adopted the most advisable one to bring about the desired result. The Pacific Board of Brokers are now considered upon the same footing as the first Board, and their sales are just as eagerly sought after by the public to obtain the ruling market rates. Why, then, we would ask, should they be treated thus, without there was some motive in the background? If such was their idea, we are inclined to the belief that the game is "blocked."

Santa Catalina Island.—The steamer Lewis Perry, recently arrived at this port from Santa Catalina Island, brings sixty tons of ore, containing silver, gold and galena. The ore is from the Santa Catalina Consolidated Mining Company. It is black oxide, and is found in great abundance in a large and well defined lode. The company is now raising about 50 tons per month. This ore assays about $650 to the ton. The ore is purchased by Mr. Price of the Pacific Mineral Company, for shipment to Swansea. We understand that government restriction on mining operations upon this island has been removed. At least no hindrance has yet been put in the way of working the mines or shipping the ore from the island. Prospecting operations are also still going on. Shipments will hereafter be regularly continued, and increased as the mines are developed.

Our Traveling Agent, Mr. L. Harnett will visit Sacramento and the Legislature during the coming week, with the view of increasing the circulation of the Mining and Scientific Press. We bespeak for him a cordial reception, and trust he may be enabled to do much to enhance the usefulness of the paper by adding largely to its circulation.

The Rush Northward.—The Dalles Mountain *Messenger* says that 1273 passengers arrived at the Dalles during the week ending March 5th.

The great Monitor, Monadnock, was launched at Boston, on Wednesday last.

Light's Canon, Indian Valley.—A correspondent at Light's Cañon, writes that he has been prospecting for copper in that section for some time past, and that he has never seen such masses of copper ore in any other part of the world as in the locality above designated—the mines of Lake Superior, even, will not compare with them. The Superior ledge varies in width from 15 to 18 feet, running up the mountain side 1200 feet. Several companies have located upon this ledge, which is probably the richest and most extensive thus far discovered in the State. The Superior company is now taking out large quantities of exceedingly rich ore. The adjoining claim to this is known as the Northern Extension, then the Superior, next the Eclipse, an exceedingly well defined ledge, yielding rich carbonates, purple or peacock ore, sulphurets, etc. This claim may be reached at a depth of 1000 feet by a tunnel not more than 1800 feet in length. The rock assays from 8 to 20 per cent. from the very surface. In addition to those already named, we may mention the Sovereign, the Mammoth, the Delta, the Steel Gray, Bevins, California, Plumas and others of lesser note. The time is not far distant when this will become one of the most important copper regions in the State. The only drawback to these mines now is the difficulty of transportation to steam navigation.

Copper and Silver in Plumas County.—We have received some very rich specimens of Copper from Indian Valley, Plumas county. Most of the copper ores from this region contain also both gold and silver. Three or four veins of silver ore are also being opened in Indian Valley, fine specimens from which have been shown us by Mr. Ford. Two Silver Mining Companies, the Delta and the Twilight, have been incorporated. Blood, Bollinger & Co., are working a very valuable gold mine in Indian Valley, from which they are taking from $6,000 to $10,000 per week; this mine has been worked some eighteen months; it is well opened and developed. Two other mills near by, in Round Valley, have been doing well until the water gave out. The scarcity of water in this region, the present season, is a great drawback upon mining operations. There is usually at this time of the year, from eight to ten feet of snow on the summits; the ground is now bare. There being no snow of any consequence on the mountains beyond, no water can be expected the coming season.

Correspondence.—"E. A. M." in reply to "An Enquirer," is received and will appear next week.

"J. P." from Virginia City, in reply to our query propounded to mining Superintendents has been received and will appear next week. In the meantime we hope to hear from other parties also.

Our correspondent, J. E. Clayton, we learn has gone to Sierra County to examine some mining interests in that section, which accounts for the interruption in his series of articles on the "Great Basin." We expect to hear from Mr. C. in relation to the Sierra County mines.

George S. Pollock, Agent for The Mining and Scientific Press, is now canvassing in El Dorado County.

Advertising Directory.—Messrs. Stillwell & Co., the well known advertising agents of this city, are now engaged in getting up an Advertising Directory in a book form. This directory, when completed, will form a neatly printed volume, about uniform in size with Langley's Directory, in which all our principal merchants, mechanics, etc, will have an opportunity to bring their business before the community in a new and permanent shape. The advertisements will be properly arranged under their respective business heads, with explanatory pages, etc.

Great Disaster.—The steamship Sierra Nevada which recently left for Oregon, was swamped on the Columbia Bar, and all hands reported lost. She was freighted with a large number of passengers for the Northern Mines.

THE FRENCH SAVANS AT FAULT.

The following is condensed from the *Comptes Rendus* of the Paris *Academie des Sciences*:—

M. A. Morin who has been engaged in the course of the last year in experimenting on ventilation, had his attention lately called to the effect of water in altering the unhealthy condition of crowded situations, he accordingly instituted a series of experiments, asking himself, he says, "whether the vaporization of water in air in motion was not accompanied, like dew, and like the rain of storms (as shown in the experiments of De Saussure and Poillet) by the development of a certain quantity of electricity which would change, in a salutary manner, the condition of the air, by establishing the active modification of its oxygen" His experiments do establish this point and he concurrently obtains "an acid" in the water. In conclusion he considers it proved that the effect of the injection of water is greater than can be explained by the increased moisture or the lowering of the temperature of the air.

We have translated the above for the purpose of calling attention to several articles published in the numbers of the MINING AND SCIENTIFIC PRESS of July 6th, and 13, 1863, in relation to the "Submarine Explorer" invented by Prof. Ryerson, now of this city, and for which he obtained a patent, some three years since. The working of this apparatus is founded upon the same results as those above noticed by M. H. Morin, produced by the action of water upon atmosphere in restoring to it the oxygen which has been consumed in the process of respiration. M. H. Morin's conclusion appears to be "that the effect of the injection of water is greater than can be explained by the increased moisture, or the lowering of the temperature of the air."

Some four years ago these same "effects" were noticed and experimented upon largely by Professor Ryerson. The Professor's "experiments" resulted in developing the astonishing fact that during the passage of spray through air vitiated with carbonic acid, the air is not only restored to its normal condition and fitness for sustaining both combustion and respiration but that there is actually an excess of oxygen in the air after this treatment. This fact was proved by careful analyses made by Dr. Deck, as follows:—

One bottle of air experimented upon was taken from a diving bell, after the atmosphere had been breathed over for an hour by three men, twenty feet under water, with no communication above; the candles in the mean time nearly going out, and respiration becoming laborious. When the air was in that condition a bottle of water was emptied, the air, of course, taking the place of the water. The bottle was properly secured. A fine spray of water was then allowed to play upon the vitiated air in the bell for about five minutes. After which another bottle was emptied of water and filled with air like the first.

The first bottle containing vitiated air gave the following result:—

Oxygen	16.00
Carbonic Acid	8.00
Nitrogen and Aqueous Vapor	76.00
Total	100.00

The second bottle of air collected after the air had been purified by the water spray gave the following:—

Oxygen	26.00
Carbonic Acid	1.50
Nitrogen and Aqueous Vapor	72.50
Total	100.00

The ordinary composition of the atmosphere is given as follows:—

Oxygen	20.61
Carbonic Acid	0.04
Nitrogen	77.95
Watery Vapor	1.40
Total	100,00

SNOW IN THE MOUNTAINS.—Very little snow fell in the mountains during the storm of Friday last. Only three inches fell on the summit of the Henness Pass route.

THE CITY BOARD OF BROKERS.—This new Board appears to be getting along finely. The following are their rates of commission on sales:

Funded Debt.	on par	½ per cent.
Insurance Stocks,	"	½ "
Wharf Stocks,	"	½ "
Gas Stocks,	"	½ "
Railroad Stocks,	"	½ "
Steamboat Co. Stocks,	on par	½ "
Telegraph Co. Stocks,	"	½ "
Water Co. Stocks,	"	½ "
Bills of Exchange on net amount		½ "
Mint Certificates, on net amount		½ "
Specie, on net amount		½ "

					PER FOOT.
Sale at $	1	up to $	10,		$0 25
" "	10	" "	25,		50
" "	25	" "	50,		1 00
" "	50	" "	100,		1 50
" "	100	" "	200,		2 50
" "	200	" "	400,		5 00
" "	400	" "	600,		6 00
" "	600	" "	800,		7 50

From $800 to $3,000 per foot, one per cent. on the amount of purchase or sale:

Anything above $3,000 per foot, three-quarters of one per cent. on the amount of purchase or sale.

STRUCK BY LIGHTNING—The house of Wm. Horr, on Turk street, near Jones, in this city, was struck by lightning during the thunder storm of last week. The fluid struck the top of the flag-staff, passed through the roof and down upon a rafter, from whence it made its exit, scattering the chips upon the floor of an upper piazza. This is certainly a very uncommon occurrence in this city, and the only one of the kind which ever came to our knowledge. A house in French Camp, San Joaquin county, was struck during the same storm, and its occupant, Mr. Girard, was so severely stunned as to be rendered insensible for half an hour.

PROF. PRICE'S MINING SCHOOL.—The first class of Prof. Price's School has about completed its course, and a second will commence its session this evening, at No. 5 First street, near the corner of Market. This change in the location of the class has been made to suit the convenience of the members. A large and convenient room has been fitted up as a laboratory, and all who would wish to avail themselves of the opportunity here offered of acquiring a practical knowledge of assaying would do well to be present this evening.

CONTENTS FOR MARCH.

No. 10—MARCH 5.—Communication—"Pocket Veins;" Hints to Prospectors; Sierra District, Humboldt county—Description of a Representative Mine; Sinai of the Stock Exchange; On the Loss of Gold Attending the Process of Amalgamation; Product of Petroleum; Wide West Mining Company; The Term Reese River; Mining Gossip; Washoe Stock Market; Mining News and Items; Our Mechanical Interests; Unwise Recommendation; Coal Creek Coal Company; Patent Department—McCauley's Steam Condenser, M. D. Garrard's Amalgamator, A California Invention, Etc.; A Mining School for San Francisco; A Formation of Black Oxide with a Supposed Decomposition of Nitre; The Drought and Gold Crop; San Diego Copper; Decidedly Arbitrary; Mining Share Market; New Incorporations; The Northern Gold Fields; Stock Market Reports; "Chippings;" Etc.

No. 11—MARCH 12.—Earthquakes—Their Causes and Effects; Ventilation of Mines; Communications—The Great Desert and Its Mines, No. 2; San Luis Obispo; Virginia City—Her Mines, Growth and Future Prospects; Jordan Creek; Churchill Mines; About Cloves; Mechanical Department—Railroad Switches and Signals, Steam and Electro-Magnetic Power, Steel Boilers; Remarkable Instance; Patent Department—Improvement on the Arastra, New Amalgamator; Mining Gossip; Reese River—A Comparative Review of Various Districts; The Mining Share Market; Editorials; Incorporations; Full Reports for the week of the San Francisco Stock Market; Washoe Stock Report; Chippings; Etc.

No. 12—MARCH 19.—Farrand's Amalgamator—Illustrated; Important Developments; Copper as an Investment; What Science Saves in Mining; Treatment of Gold Ores and Sulphurets; Treatment of Silver Ores; Washoe Mining Items; Mechanical Department; Mining Gossip; Patent Department; A Remarkable Indian Tradition; Mining Share Market; San Francisco and Washoe Stock Reports; "Chippings;" Etc.

THE MINING AND SCIENTIFIC PRESS contains 16 pages in each No. and 417 in each volume; two volumes a year. Terms, in advance, 1 year $5; 6 mos. $3; 5 copies, 1 year, $20. For sale by all newsdealers. Liberal commissions allowed all who act as agents.

DEWEY & CO., Publishers.
Cor. Washington and Sansome streets, San Francisco.

We have received No 1 of the enlarged MINING AND SCIENTIFIC PRESS published by Dewey & Co., San Francisco. It is greatly improved, and gives promise of an excellent, able and reliable journal.—*Marysville Daily Appeal.*

It has been enlarged from eight to sixteen pages, and promises to be a valuable publication.—*Sierra Democrat.*

Is is full of the most valuable reading matter. Those at all interested in mining affairs should subscribe for it at once.—*Alameda Gazette.*

It is devoted to news, art, science and progress, and should receive a liberal support.—*Solano Press.*

The MINING AND SCIENTIFIC PRESS comes to us enlarged to double its old dimensions, and otherwise improved. The PRESS is the only journal on this coast devoted exclusively to mining and scientific matters, and should be read by miners everywhere. It is published weekly, at $5 per year.—*Oroville Union.*

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The present proprietors of this journal announce with confidence their determination to render to the friends of Science, Mining and Mechanical Industry a newspaper published upon this coast worthy of their patronage at home and their pride abroad. We shall seek favors only through our endeavors to merit them.

The Editorial Department

Will be conducted with ability, in a liberal and reliable manner sparing not in expense, veneration for honesty, or respect for common sense.

Competent Correspondents

Will be employed to furnish as full and reliable information concerning newly-discovered mines; and through vigilant efforts we shall secure for our readers the latest intelligence from all important mining localities. In our list of

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We have the privilege of numbering gentlemen ranking among the most talented and experienced writers who manifest a prominent interest in the progress of Art and Science upon this coast, including the names of

PROF. J. D. WHITNEY, DR. T. M. LOGAN, DR. J. A. VEATCH, REV. O. C. WHEELER, M. ATWOOD, PROF. W. H. BREWER, J. H. CHURCHILL, A. M., A. B. PAUL, H. S. BROOKS, W. WADSWORTH, T. PRICE, J. E. CLAYTON.

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Developed upon this Coast. Each number of the paper will contain full and correct reports of

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Sales by all Mining Stock Boards.
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Essential to members of all trades and professions; the best approved methods of mining; the latest discoveries and inventions in mining operations; practical, scientific views upon geological and mineralogical questions; the proper methods of reducing ores and saving the precious metals. In fact every sentence calculated to lessen the number of hard blows uselessly rendered by miners and working men, and add wealth by intelligent saving of material or labor, will find welcome space in our columns. The paper will afford many

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The bound volumes of the PRESS will find no rival in value to the intelligent and industrious citizens of the Pacific Coast, who cannot but feel a source of pride in the history of the inventions, discoveries and prosperous developments of the remarkable era through which we are now passing.

The Stock Record

As presented in our columns will be found correct, distinct and most convenient for preservation and future reference.

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As a paper for mailing regularly to your friends in the East, or to correspondents elsewhere, none can be selected more appropriate, or better calculated to dispense reliable information with regard to transpiring events on this coast and the progress of California.

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Friends pleased with our efforts in the publication of the PRESS can render us essential aid by furnishing correspondence and all important information which may come under their observation, and by calling the attention of their neighbors to the commendable features of the paper; the appreciation of which favors will be duly manifested by the constant improvement of our journal.

DEWEY & CO., Publishers.

OFFICE in Government House, Nos. 56 and 57, corner of Washington and Sansome streets, San Francisco.

C. W. M. SMITH.....W. B. EWER.....A. T. DEWEY.

CAUTION.—Parties incorporating mining companies, who desire the choice of advertising in either a daily or weekly newspaper, should be particular to cross out the word "daily" when using the form of blank by-laws sold by the stationers of this city.

Mining Notices.

McComb Gold & Silver Mining Company, Reese River District, Lander County, Nevada Territory, Office No. 1 & 2 Government House, corner of Washington & Sansome Sts., San Francisco.—Notice is hereby given that in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the McComb G. & S. M. Co., there will be sold at public auction at the Office of the Company, at 11 o'clock A. M. on Saturday, the 30th day of April 1864, so many delinquent shares of the Capital Stock of the McComb G. & S. M. Co., standing in the names of the following persons as will be necessary for the payment of assessment No. 1 of 50 cents per share, levied Nov. 28, 1863, together with costs of advertisement and expenses of sale, unless said assessment and charges are previously paid to the Secretary at the Office of the Company.

NAMES.	SHARES.	ASS'T.	AMOUNT.
Askins, T. J.	65	$32.50	$32.50
Eaton, Ira A.	45	22.50	22.50
McComb, Robt.	90	45.00	45.00
Moloney, Jos. E.	62	31.00	31.00
Marshall, Chas.	49½	24.75	24.75
Rowe, John	4½	2.25	2.25

No. 1 & 2 Gov't House. HENRY S. BROOKS, Sec'y.
San Francisco, March 25th, 1864. 13-5t

Plutus Gold & Silver Mining Company, Reese River Mining District, Lander county, N. T., office 1 and 2 Government House, northwest corner of Sansome and Washington streets, San Francisco.—Notice is hereby given, that, in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the Plutus Gold and Silver Mining Company, there will be sold at Public Auction, at the office of the Company, at eleven o'clock A. M., of SATURDAY, April 30, 1864, so many delinquent shares of the capital stock of the Plutus Gold and Silver Mining Company, standing in the name of the following persons, as will be necessary for the payment of Assessment No. 1, for thirty cents (30c) per share, levied August 21st, 1863; also Assessment No. 2, for seventy-five cents (75c) per share, levied November 23d, 1863; and Assessment No. 3, for fifty cents (50c) per share, levied January 26th, 1864, together with costs of advertising and expenses of sale, unless said assessments and charges are previously paid to the Secretary, at the office of the Company:

Names.	No. of Shares.	Asst. No. 1–30c	Asst. No. 2–75c.	Asst No. 3–50c.	Total am't
Atherton, A. P.	50	$15 00	$37 50	$25 00	$77 50
Allison, John	20			10 00	10 00
Ratemann, I. C.	85		63 75	42 50	106 25
Roley, A. G.	10			5 00	5 00
Cleveland, Frank	150		112 50	75 00	187 50
Craig, R. R.	20			10 00	10 00
Harding, R. R.	50	15 00	37 50	25 00	77 50
Irvine, John	85	25 50	63 75	42 50	131 75
McComb, Wm.	85			42 50	42 50
Thompson, D. H.	150		71 25	67 50	138 75
Turner, Geo. R.	7	2 10	5 25	3 50	10 85
Wills, John M.	20			10 00	10 00
Woods, Phœbe A.	25			12 50	12 50

S. C. GALLAHER, Secretary.
No. 1 and 2 Government House, San Francisco.
San Francisco, March 25th, 1864. 13-5t

Monarch Gold and Silver Mining Company, Big Creek Mining District, Lander county, N. T., Office No. 1 and 2 Government House, corner Washington and Sansome streets, San Francisco.—Notice is hereby given, that, in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the Monarch Gold and Silver Mining Company, there will be sold at Public Auction, at the office of the Company, at 11 o'clock A. M., on SATURDAY, the 30th day of April, 1864, so many delinquent shares of the capital stock of the Monarch Gold and Silver Mining Company, standing in the names of the following persons, as will be necessary for the payment of Assessment No. 1, levied August 21st, 1863, of twenty cents per share, and Assessment No. 2, levied January 21st, 1864, of fifty cents per share, together with costs of advertising and expenses of sale, unless said assessments and charges are previously paid to the Secretary, at the office of the Company:

Names.	No. of Shares.	Asst. No. I—20c.	Asst. No. 2—50c
Brown, Geo. W.	65		$32 50
Brown, D.	85		42 50
Davis, C.	85		42 50
Fisher, S. O.	60		30 00
Grotjan, G. W.	4		2 00
Haddock, R. W.	85		42 50
Irvine, John	50		25 00
Kasson, C. S.	4		2 00
Nahl, H. W. A.	4		2 00
Parsons, S. H.	50		25 00
Phelps, T. G.	4		2 00
Palmer, E. C.	4		2 00
Thompson, J. L.	85	$17 00	42 50
Turner, Geo. R.	8		4 00
Uhrig, C. A.	8		4 00

S. C GALLAHER, Secretary,
Office Nos. 1 and 2 Government House.
San Francisco, March 25, 1864. 13w8-5t

Gold Point Gold and Silver Mining Company, Big Creek Mining District, Lander county, Nevada Territory, Office Nos. 1 and 2 Government House, corner Washington and Sansomo streets, San Francisco.—Notice is hereby given, that, in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the Gold Point Gold and Silver Mining Company, there will be sold at Public Auction, at the office of the Company, at 11 o'clock A. M., on SATURDAY, the 30th day of April, 1864, so many delinquent shares of the capital stock of the Gold Point Gold and Silver Mining Company, standing in the names of the following persons, as will be necessary for the payment of Assessment No. 1, for twenty cents per share, levied August 21st, 1863, and Assessment No. 2, for thirty cents per share, levied December 1st, 1863, together with costs of advertising and expenses of sale, unless said assessments and charges are previously paid to the Secretary, at the office of the Company:

Names.	Shares.	Asst. No. 1—20c.	Asst. No. 2—30c
Brodhead, W. H.	200	$40 00	$60 00
Grotjan, G. W.	1	20	30
Marshall, Chas.	200	40 00	60 00
Parsons, S. H.	200		60 00
Turner, Geo. R.	9	1 80	2 70
Uhrig, C. A.	2	40	60
White, F. A.	200		60 00

S. C. GALLAHER, Secretary,
Office Nos. 1 and 2 Government House.
San Francisco, March 25th, 1864. 13-5t

Mr. Jarvis Jewett is our duly authorized advertizing agent nd collector in this city.

Two Good Canvassing Agents can find profitable em oyment by calling at this office. None but active and competen men need apply.

Enterprise Gold and Silver Mining Company, Location, El Dorado Canon, Arizona Territory.—Notice is hereby given, that, in accordance with the laws of the State of California, and in pursuance of an order made by the Board of Trustees of the Enterprise Gold and Silver Mining Company, at a meeting held March 23d, A. D. 1864, a sufficient number of shares of the capital stock of said Company, standing in the name of the following persons, will be sold at Public Auction, to the highest bidder for cash, in U. S. gold coin, at the office of the Company, No. 622 Washington street, San Francisco, on THURSDAY, the 28th day of April, A. D. 1864, at 2 o'clock P. M., as will pay Assessment No. 1 and 2, of amount and date as stated below, due and delinquent thereon, together with all costs accruing from advertising, sale, etc., if not previously paid—to wit:

Assessment No. 1, of fifty (50) cents per share, levied Sept. 7, 1864.

Names.	No. Shares.	Amt.
Thomas H. Williams	275	$137 00
A. M. Bennett	46	23 00
M. D. Fairchild	50	25 00
S. L. DeLano	10	5 00
C. A. James	33	16 50
Robert Keir	75	37 50
Alexander Keir	75	37 50
William Wosencraft	75	37 50
C. W. Young	2	1 00

Assessment No. 2, of fifty (50) cents per share, levied Feb. 8, 1864.

A. M. Bennett	42	21 00
Thomas Brown	5	2 50
J. P. Clark	20	10 00
Joseph Conlter	10	5 00
S. L. DeLano	10	5 00
Columbia Dyer	5	2 50
M. D. Fairchild	35	17 50
C. Fink	5	2 50
Jacob Heritz	5	2 50
August Hess	5	2 50
C. A. James	40	20 00
O. E. Johnson	25	12 50
Abraham Jones	10	5 00
Robert Keir	75	37 50
Alexander Keir	75	37 50
John Miller	100	50 00
J. F. Ridler	5	2 50
T. H. Williams	255	127 50
William Wosencraft	75	37 50
C. W. Young	5	2 50

By order of the Board of Trustees,
L. B. WOOSTER, Secretary,
13-4t Office 622 Washington street, Room 13, S. F.

Bay State Gold & Silver Mining Company, Tumaback District, Tuolumne County, Cal.—At a meeting of the Board of Trustees of the Bay State Gold and Silver Mining Company, held the 23d day of March A. D. 1864, an assessment (No. 4.) of two ($2) dollars per share on each and every share of the Capital Stock of said Company, was levied, (for a Mill fund), payable immediately, in U. S. Gold Coin, to the Secretary, at the Office of the Company, southeast corner of Howard and Second Sts., San Francisco. By order of the Board of Trustees. J. F. HARRIS, Sec'y.
San Francisco, March 24th, 1864. 13-4t

Walipi Gold and Silver Mining Company, Moss Lode, San Francisco District, Arizona.—Notice is hereby given, that the Board of Trustees of the Walipi Gold & Silver Mining Company, at a meeting of said Board held March 21st 1864, levied an assessment of fifty cents on each and every share of the Capital Stock of said Company, said assessment payable immediately in Gold Coin to the Secretary at the Office of the Company, No. 620 Washington Street, Room No. 3.
13-5t W. AGUSTUS KNAPP, Sec'y.

Great Western Gold & Silver Mining Company, Keyes District.—Notice is hereby given, that by a resolution adopted by the Board of Trustees of the Great Western Gold & Silver Mining Company, at a meeting held on the 17th day of November 1863, an assessment of sixty-five cents was levied upon every share of the Capital Stock of said Company to be paid immediately in U. S. Gold Coin, to the Secretary, at the Office of the Company, No. 27 Government House, corner Washington and Sansome Sts.

Also, an assessment of twenty-five cents per share, on each and every share, levied on March the 17th, 1864, to be paid immediately, in U. S. Gold Coin, to the Secretary at his Office.

C. A. CRANE, Sec'y.
San Francisco, March 19th, 1864. 13-6t

Mount Eden Mining Company, Owen Lode, Gold Hill District, N. T.—Notice is hereby given that the Board of Trustees of the Mount Eden Mining Company, at a meeting held March 17th, 1864, levied an assessment (No. 2,) of fifty cents on each and every share of the Capital stock of said Company, said assessment payable immediately in U. S. Gold Coin to the Secretary at the Office of the Company, No. 620 Washington St., Room No. 3, or to FRANKLIN MORGAN, Esq., Superintendent at the mine.
13-5t H. B. CONGDON, Sec'y.

Pleayune Gold, Silver and Copper Mining Company, Bear Gulch, Calaveras Co.—At a meeting of the Board of Trustees of the above Company, on the 17th day of February, 1864, an assessment of six cents per share on each and every share of the Capital stock of the said Company was levied, payable on or before the 22d day of March, 1864. And Notice is also hereby given that the first annual meeting of the Stockholders of the said Company will be held on Tuesday the 22d day of March 1864, at the office of the Company at Copperopolis, for the purpose of electing officers for the ensuing year, for the adoption of By-laws, and for the transaction of such other business as may come to its notice. All Stockholders are respectfully requested to attend.

By order of the Board of Trustees,
L. HONIOSBERGER, Sec'y.
Copperopolis, Feb. 17th, '64. 9v8-4t

Copperopolis, March 22d. 1864.

The above meeting has been postponed until the 20th of April next.

13-td L. HONIGSBERGER, Sec'y.

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. THE MINING AND SCIENTIFIC PRESS PATENT AGENCY has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

Before Cutting the Leaves of this journal, stitch each No through the back, or fasten with a large pin, and you will have a paper in the most convenient form possible for reading or reference.

Business Cards.

W. O. ANDREWS,
NOTARY PUBLIC,
—AND—
Commissioner of Deeds for Nevada Territory.
Office, Montgomery Block, 630 Montgomery Street,
10v8-2m SAN FRANCISCO.

E. A. HYDE,
Commission & Stock Broker,
AND MEMBER OF
The "Washoe Stock Exchange"
10v8-1m **Virginia, Gold Hill, N. T.**

H. C. KIBBE,
Mining Secretary,
Commissioner for Nevada Territory,
22 Lyceum building, cor. Washington and Montgomery sts.,
10v8-tf SAN FRANCISCO.

C. A. CRANE,
STOCK BROKER,
Member Stock Exchange,
Office, Government House, Room No. 27, San Francisco. 10v8

A. J. Shipley,
Mining Stock, Loan & Money Broker.
Particular attention paid to Washoe, Esmeralda, and all other classes of Mining Stocks. Collections promptly attended to. Money to Loan on Stocks.
Office, Lyceum Building, Room No. 102, Entrance on Washington Street, above Montgomery, San Francisco. 9v8-q

HENRY BAKER AND JOS. N. SOUTHER,
Mining Secretaries & Brokers.
Rooms 12 & 14 Athenæum Building, corner Montgomery & California Streets, San Francisco.
B. & S. will attend, in a prompt and satisfactory manner, to the Incorporation of Mining and other Companies, the purchase and sale of Stocks and Real Estate, and the adjustment of accounts.
8v8-m

H. S. HOMANS,
NOTARY PUBLIC,
And Commissioner of Deeds for Nevada Territory,
MINING SECRETARY, CONVEYANCER, ETC.,
New Stock Exchange rooms, Montgomery Street, next door to the Bulletin Office, SAN FRANCISCO. 1-1m

T. C. SANBORN & CO.
Stock Brokers,
No. 630, Montgomery Street,.....San Francisco.

OPHIR SILVER MINING STOCK,
GOULD & CURRY MINING STOCK,
CHOLLAR MINING STOCK,
CALIFORNIA STEAM NAVIGATION COMPANY'S STOCK,
☞ **BOUGHT AND SOLD.** ☜
jltf.

W. P. DENCKLA. A. L. CHAMBERLIN.
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Stock and Exchange Brokers,
S. W. corner of Clay and Montgomery streets,
SAN FRANCISCO.

☞ Deeds, etc., for record in Humboldt County, Nevada Territory, received and forwarded. 1-tf

RENNIE & MORRISON,
STOCK BROKERS,
N. E. Cor. of Montgomery and Washington Sts., San Francisco.
Legal Tenders Bought and Sold. 7v8-mtf

L. B. ADSIT & JOHN J. HALEY,
Stock Brokers,
MEMBERS OF THE STOCK AND EXCHANGE BOARD OF BROKERS and of the PACIFIC BOARD OF BROKERS.
Stocks Bought and Sold only on Commission.
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WM. S. LYON & CO.,
Stock and Exchange Brokers,
308 Montgomery Street, corner of Pine,
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QUARTERMASTER'S WARRANTS BOUGHT. THE HIGHEST Price paid for Legal Tender Notes. Open till 9 P. M. 1-3m

JAS. L. POND, Member Pacific B'd of Brokers. G. S. CHAPIN, Member S. F. B'd of Brokers.
CHAPIN & POND,
STOCK BROKERS
No. 726 Montgomery street, Up Stairs
5v8-2m SAN FRANCISCO, CAL.

REMOVAL.
J. R. BEARD, STOCK BROKER,
MEMBER SAN FRANCISCO STOCK AND EXCHANGE BOARD,
HAS REMOVED HIS OFFICE TO
5v8-tf No. 707 Montgomery street, Brokers Block.

H. S. Saunders & Co.,

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Members of the Stock & Exchange (1st) Board and of the Pacific Board of Brokers.

Stock Exchange Room, No. 611 Montgomery street,

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And Blank-Book Manufacturers.

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4v8-tf

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MILITARY GOODS OF ALL DESCRIPTIONS. NAVY TRIMMINGS AND EMBROIDERIES. REGALIA FOR ALL ORDERS.

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A. C. MORSE,

Mining and Real Estate Agent,

Office, S. W. corner Pine and Silver Sts., Aurora.

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ARMES & DALLAM,

IMPORTERS AND JOBBERS OF

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Brushes, Twine, Cordage, Etc.,

And Manufacturers of California Pails, Tubs, Brooms, Etc.,

217 and 219 Sacramento St., between Front and Davis,

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General Furnishing Undertaker,

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PHILLIPS & CO.,

(Successors to W. H. Baxter & Co.,)

MANUFACTURERS AND IMPORTERS OF

HARNESS AND SADDLES,

BRIDLES, WHIPS, COLLARS, SADDLERY WARE, Etc.,

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And Blank Book Manufacturers.

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Kustel's California Gold and Silver Processes of Extraction, Etc., Etc.

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Prime Blasting Powder, on Consignment

And for sale in lots to suit purchasers, by

J. S. CURTIS,

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(SUCCESSOR TO O. GOM)

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No. 408 Pine street, bet. Montgomery and Kearny, San Francisco.

Mantels, Monuments, Tombs, Plumbers' Slabs, Etc.,

On hand and Manufactured to order.

☞ Goods shipped to all parts of the State. Orders respectfully solicited. 6v8-3m

Owen's River Canal Company.

FOR SALE, FOR ACCOUNT OF THE COMPANY, 7,000 SHARES of the above stock, at $1 per share. It is confidently presented to the public as the best investment, for the price, now offered this market.

Office of the Company No. 323 Montgomery street. 1tf

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OF THIS COAST.—THE UNDERSIGNED, HAVING SUCCEEDED in manufacturing Muffles, Assay Crucibles, Scorifiers and Annealing Cups, offers them for sale at reasonable prices. Also, orders for Assayers' Implements and Materials received and carefully attended to. H. HERZER.

No. 17 Kearny St., near Market, San Francisco. 8v8-m

Riehn, Hemme & Co.,

ASSAYERS.

☞ Assays made of Ores, Minerals and Metals. ☜

CHAS. F. RIEHN, late U. S. Branch Mint, gives lessons in Assaying, also in Mineralogy and Chemistry, as far as required to become a practical Assayer.

REFERRED with permission to Messrs. F. Parrot & Co., R. B. Swain, Esq., Messrs. Alsop & Co., Messrs. Donohoe, Ralston & Co. 1

G. E. MOORE,

Assayer and Analytical Chemist,

Having established a Chemical Laboratory, furnished with every requisite for delicate Analytical work, is prepared to execute the Assay and Analysis of Ores, Mineral Waters, Guanos, etc., with accuracy and dispatch. No. 612 Sacramento Street.

REFERENCES:—Prof. J. D. Whitney, State Geologist, San Francisco; Alsop & Co., San Francisco; Sather & Church, San Francisco; John Parrott, San Francisco; D. O. Mills, Sacramento. 1tf

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Promptness and Accuracy Secured

BY THE USE OF THE MOST IMPROVED METHODS OF ANALYSIS!

Advantageous Terms for Prospector's Clubs and Mining Companies.

J. H. CHURCHILL, M. A.,

[FROM EUROPE.]

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ARE PREPARED TO WORK GOLD AND SILVER ORES, IN large or small quantities.

Working assays made of small lots, and all kinds of ores crushed at short notice.

Our new and complete Machinery, will enable us to give results fully up to the merits of rock.

WHEELER & THAYER, Proprietors.

C. C. JONES, Amalgamator.

San Francisco, Oct. 13, 1863. j2tf

HOWLAND, BELL & CO.,

Copper Crushing and Grinding.

Attend to all kinds of Grinding & Crushing,

—SUCH AS—

COPPER ORES, MARBLE DUST, FIRE-BRICK DUST, DRUGS,

And Feed of all Kinds,

All of which will be Ground at the Shortest Notice.

—ALSO—

California Mineral Paint and Mineral Polishing Powder.

Works—No. 537 Market Street.

San Francisco, January 1st, 1864. 1-tf

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Druggists' and Chemists' Glassware,

And a Full Assortment of Assayers' Articles,

—INCLUDING—

Bullion and Assay Ballances, Furnaces, Muffles, Crucibles, Cupels, Acids, Etc., Etc.

Also—A Full Assortment of Reagents.

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METALLURGICAL WORKS,

FOR THE REDUCTION OF

SILVER AND GOLD ORES, TAILINGS, SULPHURETS, ARENIURETS, ETC., ETC. CUPELLATIONS AND REFINING OF SILVER AND GOLD,

Practical Assays for Silver and Gold, in small and large quantities, by Smelting, Chloriuation and Pan Manipulation.

Works—On the San Bruno Road.

OFFICE—No. 605 Montgomery St., San Francisco. nov7-tf

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HAVING BEEN CONNECTED WITH THE PUBLIC WORKS OF the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. Also

State Locating Agent,

AND AS SUCH HAVING THE SALE OF

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At the low price of $1,25 per Acre.

TERMS—Twenty per cent in cash and the balance on a credit of several years.

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Fulton Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First Street, between Market and Mission stree

3-qy SAN FRANCISCO.

Pacific Metallurgical Works,

North Beach, San Francisco.

THE COMPANY HAVING BEEN TO A LARGE EXPENSE IN enlarging their Works, are now prepared to contract to work any quantity of Gold and Silver Rock, nearer the true assay than any other Company in this Country, or Europe.

G. T. FOUQUE, Superintendent.

S. C. BRADSHAW, JR., Secretary.

Office, 511 Sacramento street, San Francisco. 3-tf

ORE BAGS.

Of various qualities and sizes, for sale by LEWIS & DETRICK,

10v8-m 113 Clay St., San Francisco.

Boston Mastic Roofing.

WE ARE PREPARED TO FILL ALL ORDERS FOR ROOFING throughout the State, Mexico or Nevada Territory. The attention of miners and mill owners are especially called to this notice, it being the cheapest and most economical roofing in use.

Office 135 Montgomery Street, near Bush, San Francisco.

10v8-2m N. P. PERIN & CO.

ORE BAGS

Of various Sizes and Qualities

FOR SALE IN BOND OR DUTY PAID, BY

10v8-1m CROSS & CO., 514 Battery St.

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AT THE OLD STAND, NEW WORLD MARKET, CORNER CLAY and Leidesdorff Streets. The whole front of the Old Market has been rebuilt and rejuvenated, and fitted up in fine Style, with private rooms for ladies, where they can procure the best of refreshments, at all hours—day or night. Parties of Gentlemen and Ladies can be supplied with the best of everything the market affords.

The best of MUTTON CHOPS and PORTER HOUSE STEAKS always on hand. Hot tea and Coffee at all hours. 9v8-m

Palmer's Patent

ARTIFICIAL LEG,

Manufactured in Philadelphia, Pa.

JARVIS JEWETT, AGENT.

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Steam and Mechanical Engineer. Designs furnished, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc., etc. Agent for McKenzie's Patent Cupola and Blower.

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MINING STOCK CERTIFICATES LITHOGRAPHED IN THE MOST ARTISTIC STYLE. CALL AND EXAMINE SPECIMENS.

10v8-tf

Stock Reports.

SAN FRANCISCO STOCK BOARDS.

Sales by the San Francisco Stock and Exchange Board, the Stock Exchange, the City Stock Exchange Board of Brokers, and the Pacific Board of Brokers.

[Revised for the Mining and Scientific Press.]

Saturday, March 19, 1864.

S. F. STOCK AND EXCHANGE BOARD.

24 shares Ophir at $1640.
20 do Chollar at $295 per foot.
40 do Chollar at 300 per foot, r w.
40 do Dancy at $110.
20 do Sierra Nevada at $75.
20 do Burning Moscow at $110, b 30.
20 do Burning Moscow at 102.
2 do Burning Moscow at 100.
10 do North Potosi at $46.
65 do North Potosi at 42½.
10 do North Potosi at 43.
10 do North Potosi at 43, r w.
20 do North Potosi at 45, b 30.
10 do North Potosi at 42½, r w.
20 do North Potosi at 42½.
10 do Real del Monte at $45.
5 do Real del Monte at 44.
3 do Real del Monte at 43.
10 do Seneca at $19, r w
10 do Lady Bryan at $50.
20 do Lady Bryan at 49¼, r w.
90 do Lady Bryan at 49, r w.
90 do Lady Bryan at 50, r w.
10 do Lady Bryan at 50, b 3.
30 do Lady Bryan at 49.
10 do Lady Bryan at 50, b 15.
10 do Lady Bryan at 52, b 30.
20 do Lady Bryan at 47½, s 30.
30 do Lady Bryan at 48.
50 do Lady Bryan at 47, s 30.
10 do Lady Bryan at 50, b 30.
10 do Lady Bryan at 48, r w.
10 do Lady Bryan, at 47, s 30.
15 do Lady Bryan at 47.
10 do Lady Bryan at 50, b 30.
10 do Lady Bryan at 48, s 5.
10 do Michigan, G. H., at $20.
5 do Blue Ledge at $18¾.
25 do Blue Ledge at 19.
10 do Pride of the West at $86.
10 do North American at $100, s 30.
5 do North American at 101, s 3.
20 do North American at 95, s 60.
6 do North American at 105, r w.
10 do North American at 105.
10 do North American at 98, s 60.
45 do North American at 105, r w.
20 do Melones at $50.
2 do Yellow Jacket at $1,050.

AFTERNOON SESSION.

40 do Lady Bryan, at $50, s 30.
10 do Lady Bryan, at 54.
70 do Lady Bryan at 56.
10 do Lady Bryan, at 58, b 30.
20 do Lady Bryan at 60, b 30.
70 do Lady Bryan at 59, b 30.
10 do Lady Bryan at 54, s 30.
50 do Lady Bryan at 53, s 30.
20 do Lady Bryan at 53½, s 30.
20 do Lady Bryan at 59, b 30.
100 do Lady Bryan at 57½, b 30.
80 do Lady Bryan at 51, s 30.
10 do Lady Bryan at 57½, b 30.
20 do Lady Bryan at 57, b 30.
10 do Lady Bryan at 56, b 30.
10 do Lady Bryan at 49, s 30.
50 do Lady Bryan at 55, b 30.
60 do Lady Bryan at 53.
40 do Lady Bryan at 52½.
10 do Lady Bryan at 52.
20 do Lady Bryan at 50¼.
25 do Lady Bryan at 52½, r w.
15 do Lady Bryan at 52, r w.
80 do Lady Bryan at 54, b 30.
10 do Caledonia Tunnel at $27.
28 do Caledonia Tunnel at 26.
15 do Whitman at $65.
5 do North Potosi at $42.
20 do North Potosi at 42, r w.
10 do North Potosi at 41, s 30.
15 do Burning Moscow at $101.
10 do Burning Moscow at 108, b 30.
75 do Uncle Sam, F. D., at $2.
10 do Nevada, J. G., at $200, r w.
2 do Nevada, J. G., at 195, s 30.
8 do Nevada, J. G., at 200, s 30.
40 do North American at $100, s 30.

PACIFIC BOARD OF BROKERS.

30 do Lady Bryan at $48.
60 do Lady Bryan at 49.
60 do Lady Bryan at 49¼.
70 do Lady Bryan at 50.
130 do Lady Bryan at 51, b 10.
80 do Lady Bryan at 45, s 10.
30 do Lady Bryan at 48, b 30.
10 do Lady Bryan at 45, s 30.
20 do Lady Bryan at 44½, s 10.
20 do Lady Bryan at 43½, b 30.
30 do Lady Bryan at 45¾.
10 do Lady Bryan at 50, b 30.
80 do Lady Bryan at 45.
40 do Lady Bryan at 47¼.
20 do Lady Bryan at 47.
20 do Lady Bryan at 52, b 30.
10 do Lady Bryan at 49, b 30.
10 do Lady Bryan at 45½.
10 do Lady Bryan at 47½, b 30.
10 do Lady Bryan at 44, s 30.
15 do Real del Monte at $45¾, b 30.
5 do Real del Monte at 43½.
4 do Burning Moscow at $102½.
6 do North American at $95.
12 do North American at 105, r w.
20 do Blue Ledge at $20, b 30.
10 do Blue Ledge at 20, b 30.
20 do Blue Ledge at 19.
6 do Wide West at $22½.
20 do Caledonia Tunnel at $30.
20 do Caledonia Tunnel at 33, b 20.
20 do Crocket Consolidated at $8.
30 do Santa Rosa at $8.

STOCK EXCHANGE.

20 do Lady Bryan at $51.
30 do Lady Bryan at 51, r w.
10 do Lady Bryan at 49, r w.
20 do Lady Bryan at 50, r w.
20 do Lady Bryan at 50¼.
50 do Lady Bryan, at 52.
10 do Lady Bryan at 52, r w.
10 do Lady Bryan at 55, b 5.
10 do Lady Bryan at 53, r w.
20 do Lady Bryan at 52, s 15.
10 do Lady Bryan at 54½.
10 do Lady Bryan at 56.
10 do Lady Bryan at 57, r w.
20 do Lady Bryan at 60, b 30.
20 do Crockett at $8.
10 do Crockett at 8½.
17 do Crockett at 10, b 30.
20 do Crockett at 9½, b 30.
20 do Harmon at $35.
10 do Eureka, O. H., at $35.
5 do Mountain, No. 1, S. M., at $7.
10 do Coso at $4¾.
10 do Mammoth, S. M., at $4.
12 shares North American at 100.
15 do Lafayette, G. H., at $13.
10 do Owen's River at $50.
10 do Union, R. D., at $3.
25 do Willow Springs at $1¼.
10 do Scottish Chief at $3.
5 do Caledonia Tunnel at $27¼.
10 do Caledonia Tunnel at 32.

CITY STOCK AND EXCHANGE BOARD OF BROKERS.

20 do Lady Bryan at $50, r w.
10 do Lady Bryan at 49, r w.
5 do Lady Bryan at 49.
20 do Lady Bryan at 49, b 5.
5 do Yellow Jacket at $1075, b 30.
5 do North American at $100.
10 do Baltimore American at $41, b 30.
25 do Wide West at $25.
25 do Gov. Downey Consolidated at $3¾.
35 do Dacotah at $11¼.
17 do Crockett at $11, b 30.
30 do Crockett at 11½, b 30.
20 do Crockett at 8¾.
30 do Blue Ledge at $15¾, s 30.
50 do Blue Ledge at $15, s 30.
5 do Caledonia Tunnel at $30, b 30.
10 do Smith & Martin, R. R., at $6.
10 do Phœnix, R. R., at $6.
5 do Baltic at $145, s 3.

S. F. Stock and Exchange Bd. sales....$169,229 50
Stock Exchange sales 17,632 50
Sales by the Pacific Board of Brokers.. 14,957 00
City S. Exchange Bd. of Broker's sales. 13,059 50

Total sales of the day, by all Boards,. 214,888 50

Monday, March 21.

S. F. STOCK AND EXCHANGE BOARD.

12 shares Ophir at $1640 per foot.
4 do Savage at $2500 per foot.
40 do Dancy at $115 per foot.
20 do Dancy at 110 per foot.
125 do Sacramento and Meredith at $48.
100 do Sacramento and Meredith at $50.
10 do Baltic at $150, b 30.
10 do Baltic at 155, b 30.
10 do Nevada, J. G., at $197¾.
3 do Nevada, J. G., at 200, b 30.
10 do Nevada, J. G., at 190.
10 do Utah at $15.
20 do Lady Bryan at $54.
35 do Lady Bryan at 53
10 do Lady Bryan at 53, r w.
60 do Lady Bryan at 49, s 30.
30 do Lady Bryan at 52¼.
10 do Lady Bryan at 52, r w.
80 do Lady Bryan at 53, b 30.
10 do Lady Bryan at 52½, r w.
10 do Lady Bryan at 52.
10 do Lady Bryan at 53¼, b 30.
100 do Lady Bryan at 54, b 30.
60 no Lady Bryan at 55, b 30.
10 do Burning Moscow at $102½, s 30.
5 do Burning Moscow at 104.
10 do Burning Moscow at 103.
30 do Burning Moscow at 110, b 30.
10 do Melones at $50, b 10.
5 do Melones at 52, b 30.
9 do Gold Canon at $25.
5 do Real del Monte at $41¼.
10 do Real del Monte at 41, b 3.
157 do Real del Monte at 41, r w.
30 do Caledonia Tunnel at $26.

AFTERNOON SESSION.

40 do Dancy at $112½ per foot.
120 do Dancy at 110 per foot.
16 do Chollar at $295 per foot.
20 do Empress, G. H., at $28, b 30.
10 do Empress, G. H., at 29, b 30.
10 do Empress, G. H., at 30, b 30.
150 do Lady Bryan at $55.
30 do Lady Bryan at 56.
30 do Lady Bryan at 59, b 30.
35 do Lady Bryan at 57.
40 do Lady Bryan at 54, s 30.
10 do Lady Bryan at 58, b 30.
55 do Lady Bryan at 56.
30 do Lady Bryan at 55, r w.
10 do Lady Bryan at 56, b 10.
30 do Lady Bryan at 55, b 15.
30 do North Potosi at $45, b 30.
20 do North Potosi at 46, b 30.
5 do Nevada, J. G., at $190, r w.
10 do Nevada, J. G., at 185.
10 do North American at $102.
10 do North American at 97½.
30 do North American at 100, s 3.
10 do Burning Moscow at $112, b 30.
10 do Burning Moscow at 105.
30 do Burning Moscow at 112½, b 30.
15 do Gold Canon at $25.
85 do Uncle Sam, F. D., at $5.
10 do Empress, G. H., at $27½.

PACIFIC BOARD OF BROKERS.

40 do Lady Bryan at $53.
10 do Lady Bryan at 53½.
70 do Lady Bryan at 49, s 30.
25 do Lady Bryan at 53½.
20 do Lady Bryan at 50, s 10.
10 do Lady Bryan at 55, b 30.
10 do Lady Bryan at 56, b 30.
60 do Lady Bryan at 54.
10 do Lady Bryan at 54, 13 d.
13 do Lady Bryan at 56.
10 do Lady Bryan at 57, b 30.
10 do Lady Bryan at 57 50, b 28.
128 do Lady Bryan at 54¾.
30 do Lady Bryan at 57½, b 30.
150 do Lady Bryan at 55, r w.
35 do Lady Bryan at 57, b 8.
40 do Lady Bryan at 55¼, b 5.
10 do Lady Bryan at 56¾, b 10.
20 do Lady Bryan at 56, b 5.
20 do Lady Bryan at 58, s 30.
10 do Lady Bryan at 58¾, b 25.
10 do Lady Bryan at 57, b 15.
10 do Real del Monte at $41.
50 do Real del Monte at 42.
10 do Real del Monte at 45, b 30.
31 do Real del Monte at 40.
30 do De Soto at $49, s 30.
5 do De Soto at 47.
10 do Baltimore American at $37.
10 do Coso at $4¼.
10 do Burnside at $12,
10 do Josephine, Coso, at $1¼.
10 do Melones at $49.
10 do Blue Ledge at $19.
20 do Blue Ledge at $21, b 30.
10 do Blue Ledge at 22, b 30.
10 do Crockett at $8.
20 do East Lynn at $21.

STOCK EXCHANGE.

10 do Lady Bryan at $53.
10 do Lady Bryan at 52½.
10 do Lady Bryan at 52¾, b 10.
20 do Lady Bryan at 52.
38 do Lady Bryan at 52, r w.
10 do Lady Bryan at 52½.
20 do Lady Bryan at 53½.
78 do Lady Bryan at 54.
10 do Lady Bryan at 54, r w.
20 do Lady Bryan at 55.
30 do Lady Bryan at 54½.
10 do Lady Bryan at 55, 3 d.
10 do Lady Bryan at 56, b 15.
15 do Lady Bryan at 55, r w.
10 do Lady Bryan, at 56, b 20.
15 do Lady Bryan, at 56.
10 do Lady Bryan, at 56, r w.
10 do Lady Bryan at 59, b 10.
50 do Humboldt at $10.
50 do East Lynn, O. R., at $23.
10 shares Real del Monte at $45.
20 do East Lynn, O. B., at 22½.
10 do Crockett at $9.
10 do Crockett at 10¼, b 30
5 do Crockett at 8¼.
10 do Crockett at 9½, b 30.
10 do Burning Moscow at $110.
5 do Burning Moscow at 106¾.
5 do Trumbo, mass. at $19.
5 do Michigan, G. H., $20.
10 do Coso at $5.

S. F. Stock and Exchange Bd. sales $150,334 5
Sales by the Pacific Board of Brokers.. 49,772 0
Sales by the Stock Exchange..... 22,918 5

Total sales of the day, by all Boards, 223,025 00

Tuesday, March 22.

S. F. STOCK AND EXCHANGE BOARD.

80 shares Chollar at $297 per foot.
40 do Chollar at 297½.
44 do Chollar at 295.
40 do Chollar at 296 per foot.
200 do Dancy at $105 per foot.
40 do Dancy at 109.
20 do Dancy at 98 per foot.
40 do Dancy at 95.
20 do Dancy at 90.
80 do Dancy at 90.
45 do Burning Moscow at $110.
5 do Burning Moscow at 115, b 30.
10 do Burning Moscow at 109.
10 do Burning Moscow at 110, b 30.
10 do North Potosi at $42.
40 do North Potosi at 45, b 30.
10 do North Potosi at 41.
40 do North Potosi at 40¾.
10 do North Potosi at 43, b 30.
6 do Real del Monte at $40.
40 do Real del Monte at 37, s 30.
50 do Real del Monte at 41, b 30.
10 do Real del Monte at 39.
10 do Real del Monte at 40, b 30.
20 do Beal del Monte at 39, r w.
10 do Real del Monte at 40, r w.
8 do Echo at $35.
10 do Nevada, J. G., at $180.
10 do Nevada, J. G., at 180, b 3.
40 do North American at $99, r w.
20 do North American at 98.
30 do North American at 96, s 30.
10 do North American at 98, r w.
30 do North American at 102, b 30.
20 do North American at 102½, b 30.
60 do North American at 98, s 30.
38 do North American at 100, r w.
10 do North American at 95, s 60.
12 do North American at 101.
10 do North American at 99, s 30.
20 do Lady Bryan at $55.
110 do Lady Bryan at 54¾.
60 do Lady Bryan at 57, b 30.
90 do Lady Bryan at 55, r w.
200 do Lady Bryan at 55.
20 do Lady Bryan at 57½, b 30.
50 do Lady Bryan at 56, b 10.
80 do Lady Bryn at 52½, s 30.
20 do Lady Bryan at 53, s 15.
10 do Lady Bryan at 53, s 30.
10 do Baltimore American at $35.
20 do Blue Ledge at $20.

AFTERNOON SESSION.

40 do Dancy at $95 per foot.
1 do Central No. 2 at $825 per foot, b, 30.
1 do Central No. 2 at 900 per foot, b 30.
10 do Lady Bryan at $54.
70 do Lady Bryan at 57.
10 do Lady Bryan at 60, b 30.
10 do Lady Bryan at 57, r w.
20 do Lady Bryan at 54, s 30.
20 do Lady Bryan at 58, b 30.
30 do Lady Bryan at 56.
40 do Lady Bryan, 57, b 30.
10 do Lady Bryan, at 54, s 10.
40 do Lady Bryan, at 54, s 30.
50 do Lady Bryan at 55½, r w.
30 do Lady Bryan at 58, b 30.
20 do North American at $99, r w.
20 do North American at 98, s 30.
20 do North American at 97, s 30.
10 do Burning Moscow at $101, b 10.
10 do Burning Moscow at 115, b 30.
4 do Burning Moscow at 108.
10 do Nevada, J. G., at $190.
5 do Empress, G. H., at $28, b 3.
5 do Pride of the West at $86.
10 do North Potosi at $40.
10 do Blue Ledge at $18, s 30.

PACIFIC BOARD OF BROKERS.

60 do Lady Bryan at $56.
305 do Lady Bryan at 56¾.
80 do Lady Bryan at 57.
40 do Lady Bryan at 57, b 5.
10 do Lady Bryan, at 57½, b 6.
40 do Lady Bryan at 58, b 30.
10 do Lady Bryan at 56, 30 d.
30 do Lady Bryan at 52½, s 30.
20 do Lady Bryan at 53, s 30.
10 do Lady Bryan at 53, s 10.
10 do Lady Bryan, at 55, s 10.
20 do Lady Bryan at 48, s 60.
10 do Lady Bryan at 47, s 60.
50 do Lady Bryan at 55.
120 do Lady Bryan at 55½.
20 do Lady Bryan at 57½.
10 do Lady Bryan at 58.
40 do Lady Bryan at 57½, b 24.
20 do Lady Bryan at 57½, r w.
40 do Lady Bryan at 56, r w.
40 do Lady Bryan at 57, r w.
10 do Lady Bryan at 57, b 10.
10 do Lady Bryan at 57½, b 10.
20 do Lady Bryan at 58, b 30.
20 do Lady Bryan at 57, 30 d.
40 do Lady Bryan at 50, s 60.
100 do Lady Bryan at 53, s 30.
20 do Lady Bryan at 53½, s 30.
5 do Lady Bryan at 55, s 20.
10 do Burning Moscow at $110.
20 do Real del Monte at $39.
100 do Crockett at 87½.
80 do Crockett at 8.
10 do Baltimore American at $35.
10 do Caledonia Tunnel at $26¼.
10 do Caledonia Tunnel at 25½, r w.
25 do Blue Ledge at $19¼.

STOCK EXCHANGE.

35 do Lady Bryan at $55.
10 do Lady Bryan at 55, r w.
10 do Lady Bryan at 58, b 30.
10 do Lady Bryan at 59, b 30.
10 do Lady Bryan at 57, b 30.
25 do Lady Bryan at 57½.
30 do Lady Bryan at 58.
10 do Lady Bryan at 58, r w.
20 do Lady Bryan at 57½, r w.
10 do Lady Bryan at 57, r w.
10 do Burning Moscow at $107.
6 do Burning Moscow at 109.
60 do Black Prince at $16.
1 do Pride of the West at $90.
5 do Harmon at $35.
5 do Crockett at $9.
10 do Crockett at 10, b 30.
20 do Blue Ledge at $20.
45 do Susan & William, D. C., at $10.
10 do Seneca at $19½.

S. F. Stock and Exchange Bd. sales.....$221,224 00
Stock Exchange sales,..... 15,182 50
Sales by the Pacific Board of Brokers.. 71,845 00

Total sales of the day, of all Boards,.. 306,251 50

Wednesday, March 23.

S. F. STOCK AND EXCHANGE BOARD.

20 shares Dancy at $105 per foot.
20 do Dancy at 104.
20 do Dancy at 103 per foot.
20 do Dancy at 110 per foot, b 30.
25 do Burning Moscow at $108.
11 do Burning Moscow at 109.
5 do North Potosi at $40¾.
15 do North Potosi at 40.
25 do Adriatic at $10¼.
5 do Pride of the West at $86.
10 do Pride of the West at 86, r w.
10 do Real del Monte at $39, b 30.
50 do Real del Monte at 38, s 30.
10 do Real del Monte at 38, b 5.
10 do Real del Monte at 38, r w.
20 do Lady Bryan at $57, b 30.
30 do Lady Bryan at 55.
15 do Lady Bryan at 54½.
25 do Lady Bryan at 54½, r w.
10 do Lady Bryan at 57, b 30.
11 do Nevada, J. G., at $190, r w.
10 do Nevada, J. G., at 195, s 30.
75 do Empress, G. H., at $30.
30 do Gold Canon at $27.
27 do North American at $99.
10 do North American at 105, b 30.
10 do North American at 104, b 30.
20 do Melones at $52.
10 do Melones at 50, s 30.
15 do Caledonia Tunnel at $26¼.
15 do Caledonia Tunnel 27.
50 do Buckeye at $15.
30 do Buckeye at 17 b 30.
5 do Bullion, G. H., at $78.

AFTERNOON SESSION.

40 do Dancy at 112½ per foot, b 30.
20 do Lady Bryan at $51.
10 do Lady Bryan at 55, b 30.
100 do Lady Bryan at 53.
20 do Lady Bryan at 53½, r w.
20 do Lady Bryan at 54, r w.
10 do Lady Bryan at 53½.
10 do Lady Bryan at 52½, s 30.
40 do Lady Bryan at 52, s 30.
15 do Empress, G. H., at $29.
10 do Melones at $51.
4 do Sierra Nevada at $65.
10 do Burning Moscow at $110.
10 do North Potosi at 39.
15 do North Potosi at 42½, b 30.
40 do North American at $102.
10 do North American at 102, r w.
20 do North American at 99, s 30.
8 do Bullion, G. H., at $79.
5 do Bullion at 60.
40 do Buckeye at $16, b 30.
50 do Buckeye at 15.
20 do Buckeye at 15, b 30.
10 do Buckeye at 14.

PACIFIC BOARD OF BROKERS.

50 do Lady Bryan at $56.
10 do Lady Bryan at 56½.
65 do Lady Bryan at 56½.
40 do Lady Bryan at 56¾, r w.
50 do Lady Bryan at 57.
20 do Lady Bryan at 57, r w.
20 do Lady Bryan at 57, b 15.
10 do Lady Bryan at 57½, b 10.
20 do Lady Bryan at 58, b 15.
20 do Lady Bryan at at 54.
10 do Lady Bryn at 54½.
25 do Lady Bryan at 55.
25 do Lady Bryan at 56, b 30.
10 do Lady Bryan at 53½, s 5.
10 do Lady Bryan at 55, b 10.
20 do Kohler Bros. at $12.
20 do Kohler Bros. at 13.
20 do Kohler Bros. at 14.
5 do Harmon, at $36.
10 do Harmon at 41, b 30.
10 do Crockett at $8.
10 do Real del Monte at $38.
10 do Real del Monte at 41, b 30.
10 do Beal del Monte at 38, s 10.
10 do Beal del Monte at 37, s 30.
1 do Real del Monte at 37.
10 do Real del Monte at 40, b 30.
10 do Real del Monte at 38.
30 do Caledonia Tunnel at $29, b 30.
10 do North Potosi at $45, b 30.
10 do North Potosi at 41.
10 do Blue Ledge at $19.
15 do Blue Ledge at 30, b 30.
10 do De Soto at $2.
10 do Gov. Nye at $5.

STOCK EXCHANGE.

5 do Lady Bryan at $55½, r w.
20 do Lady Bryan at 55.
10 do Lady Bryan at 54½.
10 do Lady Bryan at 54¼.
25 do Lady Bryan at 54.
10 do Lady Bryan at 53.
20 do Lady Bryan at 52½.
10 do Lady Bryan at 53, r w.
10 do Lady Bryan at 54, r w.
10 do Lady Bryan at 52.
10 do Harmon at $41, b 30.
20 do Santa Rosa at $7.
15 do Crockett Consolidated at $7¾.
5 do Real del Monte at $39.
20 do Coso at $4½.
25 do Lady Washington at 50c.

CITY STOCK AND EXCHANGE BOARD OF BROKERS.

12 do Ophir at $1675 per foot.
1 do Savage at $2500 per foot.
1 do Yellow Jacket at $1000.
5 do Crocket $8¾.
20 do Coso at $3¼.
30 do Alamo at $6.
20 do Nevada, J. G., at $182½, s 30.
10 do Nevada, J. G., at 180, s 30.
50 do Buckeye at $17½, b 30.
10 do Buckeye 15¾.
15 do Lady Bryan at $54¼
10 do Lady Bryan at 54.
5 do Burning Moscow at $116, b 30, n d.

S. F. Stock and Exchange Bd. sales.... $71,472 00
Pacific Board of Brokers' sales..... 28,467 50
Stock Exchange sales..... 7,731 25
City Stock & Exchange sales, ... 32,267 75

Total sales of the day by all Boards,.. 139,938 50

Thursday, March 24.

S. F. STOCK AND EXCHANGE BOARD.

20 do Dancy at $108 per foot.
5 do El Dorado at $32
25 do Pride of the West at $95, 90 d.
15 do Caledonia Tunnel at $25¼.
20 do Nevada, J. G., at $225¾.
20 do Nevada J. G., at 226, b 30.
15 do Nevada, J. G., at 215, s 60.
12 do Bajazet & Goldea Era at $56, r w.
20 do Burning Moscow at $103.
10 do Buraing Moscow at 113, b 30.
30 do Burning Moscow at 112, b 30.
10 do Burning Moscow at 107.
30 do Lady Bryan at $52, b 10.
30 do Lady Bryan at 50, s 30.
10 do Lady Bryan at 57¾, b 10.
20 do Lady Bryan at 51.
30 do Lady Bryan at 51¼.
40 do Lady Bryan at 52, b 10.
10 do Lady Bryan at 50, s 20.
5 do Lady Bryan at 51¾, r w.

52 shares Chollar at $300 per foot.
40 do Buckeye at $15, b 30.
20 do Buckeye at 13.
50 do Buckeye at 14, b 30.
5 do Echo at $35.
20 do Melones at $50.
25 do Empress, G H., at $30½.
10 do Empress, G. H., at 30.
30 do Real del Monte at $37½.
10 do Real del Monte at 37.
5 do Wide West at $20.
10 do Wide West at 20, r w.
30 do North American at $103.
10 do North American at 100, s 60.
10 do North American at 105.
10 do North American at 105, s 30.
10 do De Soto at $50, b 30.
10 do De Soto at 46.
10 do De Soto at 49, b 30.
25 do London, Q. M., at $30¼.

AFTERNOON SESSION.

10 do Lady Bryan at $52.
55 do Lady Bryan at 51½.
25 do Lady Bryan at 52, b 10.
50 do Lady Bryan at 54, b 30.
50 do Lady Bryan at 52½, r w.
20 do Lady Bryan at 52, s 30.
10 do Lady Bryan at 52½.
35 do Nevada, J. C., at $210, 28 d.
10 do Bajazet & Golden Era at $55.
5 do Melones at $20, b 30.
20 do North American at 107, s 30.
10 do Blue Ledge at $19.
10 do Blue Ledge at 20.
10 do De Soto at $47.
10 do Empress, G. H., at $30.
50 do Crocket at $7½.
5 do Baltimore American at $36.

PACIFIC BOARD OF BROKERS.

25 do Lady Bryan at $52½.
20 do Lady Bryan at 52¾.
50 do Lady Bryan at 53.
30 do Lady Bryan at 53¼.
60 do Lady Bryan at 53, r w.
80 do Lady Bryan at 54, b 10.
10 do Lady Bryan at 54, b 15.
10 do Buckeye at $15, b 30.
10 do Burning Moscow at $112, b 15.
10 do Burning Moscow at 110, b 15.
20 do Crockett at $8¼, b 30.
10 do Bullion at $25, b 30.
10 do Real del Monte at $39.
15 do Real del Monte at 38.
20 do North American at $105.
15 do Kohler Bros. at $12.
30 do Buckeye at $15, b 30.
1 do Wide West at $22½.
20 do Eclipse, Smoky V., R. R, at $47½.
10 do Blue Ledge at at $19¼.
75 da Lady Bryan at $51.
50 do Lady Bryan at 51¼, r w.
70 do Lady Bryan at 51½.
10 do Lady Bryan at 52, 4 d.
25 do Real del Monte at $37.
20 do Real del Monte at 35, s 30.
10 do Real del Monte at 40, b 30.
10 do Real del Monte at 37½.
10 do Real del Monte at 37, s 30.

STOCK EXCHANGE.

25 do Caledonia Tunnel at $26.
10 do Buckeye at $14.
50 do Real del Monte at $36.
2 do Real del Monte at 38½.
20 do Lady Bryan at $51.
15 do Lady Bryan at 51¼, r w.
15 do Kohler Bros. at $12.
15 do Caledonia Tunnel at $26.
10 do Buckeye at $14.

S. F. Stock and Exchange Bd. sales.....	$94,147 50
Stock Exchange sales.....	8,700 00
Pacific Board of Brokers' sales.....	20,874 50
Total sales of the day, by both Bds,...	123,722 00

Friday, March 25.

S. F. AND EXCHANGE BOARD.

2 shares Gould & Curry at $4550 per foot.
20 do North Potosi at $39.
20 do North Potosi at 38.
30 do North Potosi at 40, b 30.
10 do North Potosi at 38½.
8 do North Potosi at 37.
10 do Real del Monte at $38.
60 do Real del Monte at 37½.
10 do Real del Monte at 40, b 30.
20 do Real del Monte at 55, h 30.
70 do Real del Monte at 56½.
60 do Real del Monte at 59, b 30.
10 do Real del Monte at 55, s 30.
25 do Empress at $32½.
5 do Yellow Jacket at $1130, s 4.
1 do Yellow Jacket at 1150, b 30.
1 do Yellow Jacket at 1145.
50 do Napoleon, copper, at $70.
2 do Napoleon, copper, at 72.
10 do Napoleon, copper, at 80.
5 do Nevada, J. G., at $.00, s 30.
10 do Nevada, J. G., at 1.00.
10 do Nevada, J. G., at 210, b 30.
10 do Nevada, J. G., at 191.
5 do Nevada, J. G., at 190.
5 do Baltic at $140.
5 do Baltic at 150, b 30.
10 do North American, at $107.
10 do North American at 115, b 30.
10 do North American at 105, s 30.
20 do Loudon at $20.
10 do Burning Moscow at $113, b 30.
23 do Burning Moscow at 108, b 5.

AFTERNOON SESSION.

10 do North American at $120.
10 do North American at 125.
10 do North American at 130.
10 do Bullion at $75.
5 do Bullion at 76.
10 do Bullion at 78, b 30.
10 do Lady Bryan at $59.
10 do Lady Bryan at 62, b 30.
105 do Lady Bryan at 60.
60 do Lady Bryan at 52½, b 30.
20 do Lady Bryan at 58, s 30.
60 do Lady Bryan at 63, b 30.
30 do Lady Bryan at 59, s 30.
45 do Lady Bryan at 50¾.
50 do Lady Bryan at 61, b 10.
5 do Buckeye at $15.
10 do Blue Ledge at $19¾.
10 do Nevada, J. G., at $200, b 10.
10 do Seneca at $15.
50 do Empress at $31, s 4.
20 do North Potosi at $36.

PACIFIC BOARD OF BROKERS.

20 do Melones at $51.
10 do Melones at 54, b 30.
2 do Melones at 50.
20 do Real del Monte at $30.
10 do Real del Monte at 29½.
30 do Real del Monte at 41, b 30.
5 do Real del Monte at 40.
10 do Kohler Bros. at $20, s 30.
5 do Blue Ledge at $19½.
5 do Harmon at $30.
10 do London at $20.
50 do Lady Bryan at $56.
85 do Lady Bryan at 55½.
60 do Lady Bryan at 57.
40 do Lady Bryan at 57, 4 d.
00 do Lady Bryan at 57¼.
20 do Lady Bryan at 55, s 20.
10 do Lady Bryan at 57, b 3.
20 do Lady Bryan at 58, b 10.
40 do Lady Bryan at 59, b 30.
10 do Lady Bryan at 60, b 30.

STOCK EXCHANGE.

5 do Blue Ledge at $20, b 4.
13 do Blue Ledge at 19.
5 do Burning Moscow at $106¼.
5 do Burning Moscow at 112, b 30.
25 do Real del Monte at $30.
50 do Catalina Consolidated at $3¼.

S. F. Stock and Exchange Bd. sales....	$91,488 00
Sales by the Pacific Board of Brokers.	29,197 50
Sales by the Stock Exchange	2,589 50
Total sales of the day, by all Boards,.	123,275 00
Total sales of the week, by all Boards	$1,130,560 50

Legal Tender Notes.

San Francisco, Friday March 22th...51 per cent.

Gold in New York.

Friday March 19... ....162¾.
Monday March 21 ....162.
Tuesday March 22....164.
Wednesday, March 23....165@167½.

Maryland Silver Mining Company.
Imperatrice Silver Mining Company.
Belle Silver Mining Company.
Santa Maria Silver Mining Company, Location: Santa Fe District, Lander County, Nevada Territory. The regular Annual Meetings of the Stockholders of the above Companies for the election of officers, and the transaction of other business, will be held on Friday, the Fifteenth day of April, 1864, at the office of the Secretary, No. 305 Montgomery street.

12v8-4t J. S. LUTY, Sec'y.

Give the Name of the District.

We are requested to call the attention of Secretaries of Mining Companies to the importance of inserting in their advertisements, of whatever character, the name of the district or locality. Considerable trouble arises from this neglect, as there are Companies bearing the same name, although situated in different localities. Attention to this matter will not only be a benefit to others interested in Mining Companies, but also to the Secretaries themselves.

Brown's Bronchial Troches.—These Lozenges are prepared from a highly esteemed receipe for alleviating BRONCHIAL AFFECTIONS, ASTHMA, HOARSENESS, COUGHS, COLDS, and Irritation of the Throat.

PUBLIC SPEAKERS AND VOCALISTS

Will find them beneficial in clearing the voice before speaking or singing, and relieving the throat after any unusual exertion of the vocal organs, having a peculiar adaption to affections which disturb the organs of speech.

Agents for California, REDINGTON & Co., San Francisco. 10-1m

J. M. Wolf is our Agent for Virginia City, Gold Hill and neighboring districts. j2.tf

The Law for Publishing Legal Mining Notices.

An utterly erroneous opinion having been engendered in the minds of some (through misrepresentations and interested motives of others), that the laws of this State technically require the publication of mining notices to be be made in a DAILY paper, we take occasion to quote the following positive passage concerning the publication of mining notices, from the latest statutes passed by our Legislature on the subject, March 5th, 1861, which has not since been altered or amended:—

"Notice of each such call, or assessment, shall be given to the respective stockholders personally, or shall be published once a week for at least four weeks in some newspaper published at the point designated as the principal place of business of the corporation, and also in some newspaper published nearest to the point where said mining operations are being carried on. If, after such notice has been given, any stockholder shall make default in the payment of such call, or assessment, as to the shares of stock held by him, so many of such shares may be sold as will be necessary for the payment of the call, or assessment, on the shares held by him. The sale of said shares shall be made as prescribed in the by-laws of the company; *provided*, that no sale shall be made except at public auction to the highest bidder, after a published notice of thirty days, PUBLISHED AS ABOVE DIRECTED; and that at such sale the person who will agree to pay the call, or assessment, so due, together with the expense of advertisement and the other expenses of the sale for the smallest number of whole shares, shall be deemed the highest bidder."—[Passed March 5th, 1861—Stat. 1861, p. 14.

The above is indeed plain, and we hold ourselves responsible for the assertion that a weekly issue of a mining notice is as valid as that of a daily. By publication in the MINING AND SCIENTIFIC PRESS, a wide circulation is given to notices, particularly among miners and shareholders in this city and throughout the State and Nevada Territory. A weekly publication is also secured at a material saving in cost to shareholders.

PIONEER FOUNDRY and MACHINE SHOP,
Lower Gold Hill,
Have Superior Facilities for Making
MINING & MILLING MACHINERY,
A COMPLETE SET OF MACHINE TOOLS WITH
PLANER,
ENABLES ME TO DO ALL KINDS OF
MACHINE WORK AT SHORT NOTICE.
RETORTS AND INGOT MOULDS,
STAMP SHOES AND DIES,
WHEELER, VARNEY AND HEPBURN
PAN SHOES CONSTANTLY ON HAND.

Plans, Specifications, and Drawings of all kinds of Mill and Mining Machinery made at short notice, by

OLIVER HYDE, JR.

W. R. MAURICE,
Stock Broker, Real Estate Agent
And Mining Secretary,
Office, NO. 708 Montgomery Street, San Francisco. Reference—Messrs, PARROTT & Co., Bankers. 8v8.tf

THOMAS HILL,
Member of the S. F. Stock and Exchange (1st) Board.
A. H. MURDOCK,
Member of Stock Exchange,
No. 623 Montgomery Street. Opposite Montgomery Block,
SAN FRANCISCO.

RICHARD WEGENER,
Accountant, Mining Secretary,
AND GENERAL AGENT.
No. 204 Montgomery St., Southeast cor. Montgomery & Pine Sts.,
11-m SAN FRANCISCO.

E. C. DAKE,
Dealer in Clothing and Gent's Furnishing Goods,
541 and 543 Washington Street, Montgomery Block,
j2.tf San Francisco.

San Francisco Stock and Exchange Board.—Prices Bid and Asked.

				Saturday.		Monday.		Tuesday.		Wednesday.		Thursday.		Friday.	
WASHOE STOCKS.	FEET.	SHARES.	VAL.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.
Ophir	1,400	16,800	300	1,640	—	1,650	1,675	1,665	—	1,655	1,680	1,675	1,725	1,675	1,725
Gould & Curry	1,200	4,800	500	—	4,700	—	4,700	—	4,700	—	4,625	—	4,700	4,550	4,600
Savage	800	800	2,000	2,400	2,000	2,500	2,525	2,450	2,525	2,425	2,525	2,450	2,500	2,450	2,450
Chollar	1,400	5,600	800	295	300	275	300	297	300	295	310	295	300	—	302½
Potosi	1,400	2,800	500	900	1,500	900	—	800	1,050	900	1,050	—	—	900	1,050
Hale & Norcross	400	800	500	—	—	—	—	—	—	—	—	600	750	—	590
Sierra Nevada	3,000	3,000	500	68	75	—	75	70	75	—	—	100	—	70	75
Daney	2,000	800	60	103	110	110	114	85	90	104	106	105	107½	106½	107
Burning Moscow	4,100	4,100	500	101	103	103	104	105	110	108	109	106	108	105	108
North Potosi	2,000	2,000	250	41	42½	40	45	39	40	37	40½	38	40	37	38
Charles Cany	1,800	1,800	30	—	12	—	—	—	—	—	11	—	10	—	—
Iowa	1,200	1,200	1,000	—	—	—	—	—	—	—	—	—	—	—	—
El Dorado	1,600	1,600	500	34	37½	30	45	30	37½	32	37½	32	36	—	50
Norton	1,600	1,600	50	—	—	—	—	1	—	—	—	2	—	3	5
Burnside	2,000	2,800	500	—	—	10	15	10	15	—	15	9	12	—	11
Adriatic	2,700	2,700	100	—	10	—	11	—	12	9¾	11	9	10	—	—
Pride of the West	1,400	1,400	100	85½	90	80	87	83	88	85	86	84	85	84	—
Imperial	184	4,000	500	—	—	—	—	130	150	—	—	—	175	110	150
Crown Point	600	1,200	100	—	—	—	—	—	—	700	1,000	—	—	—	—
Manhattan	—	—	—	—	—	—	7	—	7	—	8	—	—	—	7
Seneca	—	—	—	—	18	—	20	—	19	—	—	—	19	—	—
Mt. Davidson tun'l.	1,000	1,000	200	—	—	—	3	—	3	—	3	—	2½	—	—
Caledonia Tunnel	—	—	—	25	30	25	27	25	30	26	27	25	25½	25	26¼
Bajazet & G. Era	4,000	4,000	300	—	75	—	70	—	75	55	65	55	60	51	54
Cedar Hill tunnel	—	1,000	100	—	—	—	2	—	2¼	—	2¼	—	—	—	—
Gold Hill Qu'tz Mill	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ESMERALDA.															
Wide West	1,400	1,400	2,600	20	23	20	23	18	—	20	23	18	20	17	22
Antelope	1,200	1,200	500	200	—	200	250	200	350	222½	300	220	300	220	275
Esmeralda	1,600	1,600	1,000	—	—	—	—	—	—	6	7	7½	9	—	—
Real del Monte	4,400	4,400	400	42	43	40	41	39	40	37	38	37	37¾	38	39
Utah	1,600	1,600	250	—	—	—	15	15	22	—	15	—	18	10	20
Silver Hill	3,000	3,000	500	—	14	—	—	—	10	—	10	—	12	—	12
Nevada	600	1,200	250	—	—	—	—	—	—	—	—	—	—	—	—
Falls of Clyde	5,000	5,000	100	—	—	—	2	—	2	—	—	—	2	—	2
Bumboo	600	600	500	—	40	—	60	—	45	—	50	—	50	—	50
Crockett	—	—	—	—	10	—	—	7¼	8¼	6	10	7	8	6	15
Federal Hope	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Jenny Lind	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
COSO.															
Josephine	9,600	4,800	2,500	—	—	1	—	1	—	1	—	—	—	—	1
Willow Springs	2,700	2,700	100	—	—	—	—	—	2	—	—	—	4	—	4
Coso	2,600	3,600	600	—	8	—	—	—	—	—	3¾	—	—	—	—
COPPEN.															
Napoleon	2,700	2,700	600	—	—	70	—	70	85	—	85	55	70	80	80
Josephine	—	—	—	—	8	—	—	—	8	5½	8	4	8	—	—
CALIFORNIA.															
Laurel Hill	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rhodes Diggings	—	—	—	—	—	2	—	2	—	—	—	—	—	—	—
Fellowes	2,500	2,500	100	—	20	18	20	18	20	—	—	—	—	—	18
Maxwell	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rock River	—	—	—	—	—	—	55	—	65	—	—	—	—	—	—
Eureka	—	—	—	—	—	—	37½	—	37½	—	—	—	—	—	—
HUMBOLDT STOCKS.															
De Soto	1,980	1,980	100	45	50	40	—	40	—	45	—	46	49	30	50
Great Basin	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—

Esmeralda.—A partial "clean up," only, of the first six days' run of the new Antelope mill yielded 3000 ounces of bullion, worth about $12,000. It is rumored that the Cortez and Utah are about arranging the disputed matter between them, and compromising the whole affair, which will, if consumated cause the pending suit to be withdrown. The new mill of the Durand company is nearly ready for running. The lode belonging to this company is very promising. Lady Gertrude Tunnel Company, on Silver Hill, recently piereed a fine ledge and still continue their work. Their tunnel is a fine locality, and suffieiently low to insure a prospect many feet from the surface. This manner of prospecting says the *Times* will prove, to a great extent, the value of the ledges they may strike. Workmen in the Elematah Copper Claim, near Ophir, recently struck a small vein of quartz in the main lode, that so far has proven quite rich. Eighteen ounees of gold have been taken out of a few hundred pounds of roek, and consequently holders of shares are in good spirits. The main lode is some five feet thick. The Bamboo company are driving their work and taking out rock. Their latest reported crushing at Winter's mill shows their bullion to be above the average richness in gold, it being $5.75 per ounce.

The discovery of new and rich placer diggings is reported on the head waters of Bishop's Creek, twelve miles west of Owensville. From seventy-five to eighty persons are there prospecting.

Washoe.—The Gold Hill *News* learns that a number of new mills are to he put up in that vicinity the coming season, and thinks that hy the time they are ready they will find enough to do.

The Desert district reports still continue favorable. Matters at these mines are said to be looking better thau for some time past, the ledges on being opened proviug even rieher than was at first supposed. Some specimeus of rock just brought in from the claims of the Golcouda Company, Mark Antony and Cleopatra ledges combined, says the *Union*, heat anything we have yet seen from that District, being full of gold spangles, and of the purest quality. It is estimated that this rock will pay $10,000 to the ton.

The Mayflower and Allen, now consolidated, is said to be "looming up." They are sinking a shaft from which, at the depth of 100 feet, they propose drifting to each elaim. Both ledges are well defined. The Mayflower, especially, assays remarkably well.

The Reese River *Reveille* says that "tons" of ore are daily being taken from the North Star miue at upper Austin, of a quality superior even to the best ores from the Gould & Curry, a portion of which is imperfectly worked at the Oregon mill, while the tailings are earefully saved for a future proeess. The North Star is said to he the most thoroughly developed mine in that neighborhood, and is opened to a depth of 100 feet. The chief charaeteristie of the orc is black sulphuret, iu which native silver from mere specs up to spangles the size of a dime are abundant.

The De Soto, an extension of the Sheha at Humboldt is now attracting considerable attention. The regular Sheha ledge has been struck in this mine at a depth of 80 feet, hy a tunnel. The mineral is said to be identical in charaeter with the Sheba, and nearly one half wider, with well defined walls. The Sheba, according to the *Register*, is making preparations for an active summer's work. Arrangements are being made to put up the proper maehinery for working this minc, which will be ready for operation in June next. The ores will be subjeeted to a roasting process, in a reverberatory furnace. A large amount of reliahle ore has been accumulated at the mouth of this miue.

The Gem of the Sierra is highly spoken of. The ore from this mine is easily worked. The last crushing of 3¼ tons of ore yielded at Fall's mill $1,498.

The Salt Springs salt mines, on the Reese River road, N. T., cover 1,800 aeres, and the salt is from fifteen to twenty feet deep. The mine produces thirty tons of salt per day, sacked for shipment.

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The public are informed that Letters Patent have been granted the undersigned upon Steam Chest False Bottoms for the inside of Amalgamating Pans or Tubs, and are cautioned against making, buying, using or selling the same without his consent.
tf W. A. PALMER.

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MINING COMPANIES, by using it for Hoisting Purposes, save 66 per cent. on their outlay for other ropes.

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The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metal arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the triturating, this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.

Where these Pans have been introduced and operated by the side of others on sands from the same vat, the Wheeler Pans have uniformly gained a large percentage of metals, over its competitors, as well as a still larger percentage in the amount of work performed.

*** These Pans may be seen in daily operation at the Miners' Foundry, on First street, San Francisco, where all interested are invited to call and examine for themselves.
no16-tf ZENAS WHEELER.

To Quartz Miners.

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A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S. Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.
sep2I

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Mining Notices.

Phœbus Gold and Silver Mining Company, Big Creek Mining District, Lander county, N. T.—Office No. 1 and 2 Government House, corner Washington and Sansome streets, San Francisco.—Notice is hereby given, that, in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the Phœbus Gold and Silver Mining Company, there will be sold at Public Auction, at the office of the Company, at 11 o'clock A. M., on SATURDAY, the 30th day of April, 1864, so many delinquent shares of the capital stock of the Phœbus Gold and Silver Mining Company, standing in the names of the following persons, as will be necessary for the payment of Assessment No. 1, of twenty cents per share, levied August 21st, 1863, and Assessment No. 2, for fifty cents per share, levied December 1st, 1863, and Assessment No. 3, for fifty cents per share, levied January 26th, 1861, together with costs of advertising and expenses of sale, unless said assessments and charges are previously paid to the Secretary, at the office of the Company:

Names.	Shares.	Asst. No. 1–20c.	Asst. No. 2–50c.	Asst. No. 3–50c.
Adams, W. P.	11			$5 50
Brown, B. R.	13			5 50
Bland, Adam	10			5 00
Francis, D. B.	7½		$ 3 75	3 75
Gray, H. J.	59		29 50	29 50
Gray, John	130		51 50	52 50
Grotjan, G. W.	25		12 50	12 50
Goyan, F.	10			5 00
Harvey, Joseph	25			12 50
Harvey, James	25			12 50
Irvine, John	190	$33 00	95 00	95 00
Kasson, C. S.	11			5 50
Nahl, H. W. A.	11		5 50	5 50
Parsons, S. H.	170	34 00	85 00	85 00
Phelps, T. G.	11			5 50
Palmer, E. C.	11			5 50
Perkins, J. L.	25			12 50
Rogers, W. H.	100			50 00
Rogers, Robt	5			2 50
Ralph, Thomas	25			12 50
Steere, Robt.	25			12 50
Strout, E. N.	25			12 50
Sherwood, Benj.	10			5 00
Turner, Geo. R.	23		11 50	11 50
Uhrig, C. A.	23		11 50	11 50
Valentine, S. D.	7½		3 75	3 75

S. C. GALLAHER, Secretary.
San Francisco, March 25th, 1864. 13-5t

Omaha Copper Company, Calaveras County.—Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Omaha Copper Company, there will be sold at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on SATURDAY, April 23d, prox., at 11 o'clock A. M. of that day, to the highest bidder for cash, in U. S. gold coin, so many shares of the capital stock of said Company, standing in the names of the following shareholders, as will be necessary for the payment of assessments duly levied thereon by the Board of Trustees, on the 28th of December, 1863, and on the 5th of February, 1864, of twenty cents per share each, together with the expenses of advertising and sale—to wit:

Names.	No. of Shares.	No. Asst.	Amt.
Z. Cotlin	50	3	$10
S. Foster	5	3	1
I. L. Champlin	10	3	2
S. B. Wooster	15	3	3
F. A. Burch	10	2 3	4
S. C. Norton	10	2 3	4
J. F. Werthermier	5	3	1

By order of the Board of Trustees.
13-4t T. A. MUDGE, Secretary, 528 Clay street.

Victory Gold and Silver Mining Company, Golden City Gold and Silver Mining Company, Idaho Consolidated Gold and Silver Mining Company—Office, 645 Clay street, San Francisco, March 8th, 1864.—At a meeting of the Board of Trustees of the Victory, Golden City, and Idaho Consolidated Mining Companies, held at their office, March 3d, 1864, an assessment of 25 cents per share was duly levied on each and every share of the assessable stock of the above Companies, payable immediately, in U. S. gold coin, to the Secretary. By order of the Board of Trustees.

13-td M. G. ELMORE, Secretary.

Millard Fillmore Gold and Silver Mining Company, Reese River District, Lander county, Nevada Territory.—An assessment of twenty-five cents per share was levied on the capital stock of the above named Company, on the 3d day of October, 1863, payable at the Company's office; also, an assessment of twenty-five cents per share was levied on the 21st of March, 1864, payable immediately as the Company's office, 305 Montgomery street, S. F., or to B. Cruthers, Austin, N. T. J. S. LUTY, Secretary.

San Francisco, March 24, 1864. 13-4t

Table Mountain Copper Mining Co.—Office, 645 Clay street, San Francisco, March 25th, 1864.—Notice is hereby given that an assessment (No. 5) of 50 cents per share was this day levied on each and every share of the capital stock of the Table Mountain Copper Mining Company, payable immediately, in U. S. gold coin, to the Secretary, or to J. M. Pike, Superintendent, Copperopolis. By order of the Board of Trustees.

13-tf M. G. ELMORE, Secretary.

Walipi Gold and Silver Mining Company, Moss Lode, San Francisco District, Arizona.—Notice is hereby given, that the Board of Trustees of the Walipi Gold & Silver Mining Company, at a meeting of said Board held March 21st 1864, levied an assessment of fifty cents on each and every share of the Capital Stock of said Company, said assessment payable immediately in Gold Coin to the Secretary at the Office of the Company, No. 620 Washington Street, Room No. 3.

13-5t W. AUGUSTUS KNAPP, Sec'y.

East Lynn Gold & Silver Mining Company, Inyo District, Tulare County.—Notice—The annual meeting of the Stockholders of the above Company, for the election of Trustees, will be held at the office of the Company, 618 Merchant Street, San Francisco, on Monday, April 4th, 1864, at 4 o'clock P. M.

12-3t SAMUEL SMITH, Sec'y.

Lucretia Gold and Silver Mining Company, Summit District, Lander county, N. T.—Notice is hereby given, that at a meeting of the Board of Trustees of the above named Company, held February 13th, 1864, an assessment of twenty-five (25) cents was levied on each share of the capital stock, payable immediately, in gold coin, to the Secretary. H. C. KIBBE, Secretary.

Office, Lyceum Building, cor. Washington & Montgomery Sts.
San Francisco, March 18, 1864. 12v8

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Containing the names of Secretaries and of Mining Companies having their place of business in San Francisco, and the location of their offices.

☞ PRICE.....50 CENTS.☜

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DEWEY & CO., Publishers,
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Desert Mining Company, Flowery District, N. T.—Notice is hereby given, that on SATURDAY, the twenty-third day of April, 1864, at 12 o'clock, M., there will be sold at auction, at the salesroom of John Middleton & Son, No. 400 Montgomery street, San Francisco, a sufficient number of shares in the capital stock of the Desert Mining Company, standing in the names of the following persons, to pay the assessment (No. 10) of one dollar per share, levied January 20, 1864, together with the expenses of advertising and sale, unless the same shall have been previously paid, viz:

NAMES.	CERTIFICATE.	SHARES.	AM'T.
Bayerque, R.	296	10	$10
Bayerque, R.	319	5	5
Budd, W. C.	304	5	5
Budd, W. C.	305	5	5
Budd, W. C.	345	5	5
Budd, W. C.	346	20	20
Budd, W. C.	347	20	20
Budd, W. C.	348	20	20
Budd, W. C.	349	20	20
Budd, W. C.	350	20	20
Cahill, Edward	274	25	25
Cahill, Edward	303	70	70
Critcher, Henry	300	10	10
Critcher, Henry	317	10	10
Cullen, Jeffrey	151	25	25
Cullen, Jeffrey	154	25	25
Davis, G. H.	352	25	25
Donohue, Ralston & Co.	271	20	20
Fitch, J. R.	360	50	50
Hall, R.	343	5	5
Hay, A. M.	283	5	5
Hall, O. C.	329	5	5
Hedley, P. D.	358	12	12
Homfray, R.	250	10	10
Hyman, P. C.	228	20	20
Hyman, P. C.	229	20	20
Ireland, L. F.	293	10	10
*Lyon, J. H.	5, 5, 22 to 28	100	200
Milliken, I. F.	297	25	25
Moody, W. E.	251	10	10
Morgan, George J.	273	10	10
Morrison, J. C.	290	5	5
Nesmith, J. F.	361	25	25
O'Brien, John	323	3	3
O'Brien, John	326	12	12
Reinhart, E.	330	20	20
Spiers, C. D.	269	25	25
Schmiedell, Henry	356	5	5
Stoutenborough, C. H.	265	10	10
Tobin, R. J.	324	10	10
Van Tassell, T.	321	10	10
Watson, N. A.	140	5	5
Young, D. W.	325	20	20
Young, D. W.	339	5	5

By order of the Board of Trustees.
DAVID WILDER, Secretary.
No. 240 Montgomery street, San Francisco.

* NOTE.—100 shares in the name of J. H. Lyon will be sold subject to assessment No. 9, of one dollar per share, levied March 12, 1863.
12v8-5t DAVID WILDER, Secretary.

Albion Gold & Silver Mining Company.
Asia Gold & Silver Mining Company.
Jupiter Gold & Silver Mining Company.
Live Yankee Gold & Silver Mining Company.
St. Paul Gold & Silver Mining Company.—Notice is hereby given, that at a meeting of the Board of Trustees in each of the above named companies, held at their office in San Francisco, December 19, 1863, an assessment of fifty cents was levied on every share in the capital stock of each of said companies, payable immediately, in United States coin, to

DAVID WILDER, Secretary,
12v8-4t. No. 240 Montgomery street.

Sonoma Ledge Silver Mining Company, Reese River District, N. T.—Notice is hereby given that at a meeting of the Board of Trustees of the Sonoma Ledge Silver Mining Company, held at their office in San Francisco, March 12, 1864, an assessment (No. 4) of one dollar, was levied on every share in the capital stock of said company, payable immediately, in United States coin, to Julius Shichel, at Austin, N. T., or to DAVID WILDER, Secretary,
12v8-4t. No. 240 Montgomery street.

Office of the Montezuma Gold & Silver Mining Company, No. 52 Government House, corner of Washington and Sansome streets, San Francisco, Feb. 5th, 1864.—Notice is hereby given, that a sufficient number of shares of the Capital stock of the Montezuma Gold and Silver Mining Company, standing in the name of the following person, will be sold at public auction, at the sales room of Jerome Rice & Co., No. 327 Montgomery street, on WEDNESDAY, March 9th, 1864, at 11 o'clock A. M., to pay an assessment of 12½ cents per share, levied April 27th, 1863, together with expenses of advertising and sale, unless said assessment is previously paid with accruing charges—viz: Hugh McCormick; 247 shares; amount due, $30,87½. By order of the Board of Trustees.
6v8-5t C. A. CRANE, Sec'y.

San Francisco, Wednesday, March 9th, 1864.
The above sale is postponed until Wednesday, March 16th, 1864.
C. A. CRANE, Sec'y.

The above sale is further postponed until Wednesday March 25th, 1864. C. A. CRANE, Sec'y.

Poindexter Silver Mining Company, Reese River Mining district, N. T.—Notice is hereby given, that at a meeting of the Trustees of the above named Company, held the 20th of October, 1863, an assessment of Fifty cents per share was duly levied on each and every share of the Capital Stock of the Company; and at a meeting of the Trustees held Feb. 27th, 1864, an assessment, No. 2 of fifty cents per share was duly levied on each and every share of the Capital Stock of said Company, payable immediately to the Secretary, in U. S. Gold Coin, at his office, No. 35 Government House, or to the Agent, WM. ALPHENS SMITH, at Austin, N. T.

San Francisco, March 1st. (10v8-1m) JAS. C. NORRIS, Sec'y.

Santa Maria Silver Mining Company, Santa Fe District, Lander county, Nevada Territory. Office 305, Montgomery street, San Francisco, Feb. 23, 1864.—Notice is hereby given that at a meeting of the Board of Trustees, held this day, an assessment (No. 2) of fifty cents per share was levied on each and every share of the capital stock of the above company, payable immediately, in gold coin, to the Secretary, at his office. By order of the Board of Trustees. (9v8-4t.) J. S. LUTY, Sec'y.

Bodie Consolidation Gold and Silver Mining Company, No. 2.—Office, southwest corner of Clay and Montgomery streets, San Francisco.—Notice is hereby given, that in accordance with an order made on the 4th instant, by the Board of Trustees of the Bodie Consolidation Gold and Silver Mining Company, No. 2, there will be sold at public auction, by Jerome Rice & Co., at their salesroom, No. 327 Montgomery street, San Francisco, on WEDNESDAY, the 27th day of April, A. D. 1864, at 11 o'clock A. M., a sufficient number of shares of the capital stock of said Company, standing in the names of the following persons, as may be necessary to pay the assessment levied January 14th, 1864, together with the expense of advertising and sale, unless said assessment and charges are previously paid:

		ASS'T PER SHARE.	ASS'T DUE.
William Ayres, Sr.	Cert. 482, 483, 484, 485, 486, Shrs. 10, 10, 10, 10, 10.	50	$25 00
Miles Chapin	Cert, 129, 130, 312, 313. Shrs. 15, 10, 10, 10.	45	22 50
G. S. Chapin	Cert. 305, 306. Shrs. 25, 25.	50	25 00
A. L. Chamberlin	Cert. 353.	25	12 50
L. H. Dearborn	Cert. 509.	24	12 00
Thomas Gardner	Cert. 283.	20	10 00
James Lang	Cert. 518.	15	7 50
Jas. F. McFarlane	Cert. 116, 118, 121, 122, 124, 126. Shrs. 50, 10, 10,	100	50 00
M. S. Martin	Cert. 380.	250	125 00
L. W. Newell	Cert. 435. 435, 451, 452. Shrs. 25, 15, 15, 10.	65	32 50
Jonathan Peel	Cert. 542, 543, 544. Shrs. 50, 50, 25.	125	62 50
Edward Rondel	Cert. 412, 413. Shrs. 7, 5.	12	6 00
W. D. Robinson	Cert. 508.	25	12 50
C. H. Stoutenborough	Cert. 364.	20	10 00
Jesse D. Spray	Cert. 515.	25	12 50
Edward Donahue	Cert. 512, 514. Shrs. 25, 25.	50	25 00

By order of the Board of Trustees.
A. L. CHAMBERLIN, Secretary.
San Francisco, March 12, 1864. 12v8-5t

Samantha Consolidated Gold & Silver Mining Company.
Lewis Consolidated Gold & Silver Mining Co.
Memphis Gold & Silver Mining Company.
John J. Crittenden Gold & Silver Mining Co.
Grafton Gold & Silver Mining Company.
George Leet Gold & Silver Mining Company.
Meteor Gold & Silver Mining Company.
Pontiac Gold & Silver Mining Company.
Hyack Gold & Silver Mining Company.
Butler Gold & Silver Mining Company.
Enterprise Gold & Silver Mining Company.
Essex Gold & Silver Mining Company.
Tehama Gold & Silver Mining Company.
Crown Point Consolidated Tunnel Mining Co.
Nicolaus Gold & Silver Mining Company.
Scottish Chief Consolidated Tunnel Mining Co.

Notice is hereby given that at a meeting of the several Boards of Trustees of the following and above named Companies, held in the City of San Francisco on the 19th day of October, A. D. 1863, the following assessments were duly levied, payable immediately to the Secretary in U. S. Gold Coin at his Office No. 509 Clay st., San Francisco, or to S. F. AMBLER, Austin, N. T.

NAMES OF COMPANIES.	ASSM'T PER SHARE.
Samantha Consolidated G. & S. M. Co.	25 cts.
Memphis G. & S. M. Co.	25 cts.
Lewis Consolidated G. & S. M. Co.	25 cts.
John J. Crittenden G. & S. M. Co.	25 cts.
Grafton G. & S. M. Co.	25 cts.
George Leet G. & S. M. Co.	40 cts.
Meteor G. & S. M. Co.	20 cts.
Pontiac G. & S. M. Co.	20 cts.
Hyack G. & S. M. Co.	20 cts.
Butler G. & S. M. Co.	20 cts.
Enterprise G. & S. M. Co.	20 cts.
Essex G. & S. M. Co.	20 cts.
Tehama G. & S. M. Co.	25 cts.
Crown Point Consolidated Tunnel & M. Co.	50 cts.
Nicolaus G. & S. M. Co.	10 cts.
Scottish Chief Consolidated Tunnel & M. Co.	10 cts.

All the mines of the above named Companies are located in Reese River Mining District, Lander county, Nevada Territory. By order of the Board of Trustees. D. B. FRANCIS, Sec'y.
Office, No. 509 Clay street. 11v8-4t

Bodie Bluff Consolidation Mining Company, Bodie District, Mono Co., Cal.—February 27th, 1864.—At a meeting of the Board of Trustees of the above named Company, held this day at the Secretary's Office in the town of Aurora, the following among other proceedings were had, viz:—*Resolved*—That an assessment No. 3,) of one dollar upon each share of the Capital stock of the aforesaid Company be and the same is hereby levied, payable immediately in U. S. Gold Coin, or its equivalent in Legal Tender Notes, to the Secretary, at No. 614 Montgomery Street, San Francisco. *Provided*—That all the Stock upon which the assessment (No. 2,) of Fifty cents per share, levied June 13th, 1863, has been paid, only fifty (50) cents per share shall be paid under this assessment.

Resolved,—That the Transfer office of the Company be removed to San Francisco. By order of the Board of Trustees.
11v8-5t F. K. BECHTEL, Sec'y.

Pride of Nevada Mining Company, Reese River District, Nevada Territory.—Office, No. 620 Washington St., San Francisco.—Notice is hereby given, that the Board of Trustees of the Pride of Nevada Mining Company at a meeting of said Board, held March 8th 1864, levied an assessment (No. 1,) of fifty (50) cents on each and every share of the assessable stock of said Company, said assessment payable immediately in U. S. Gold Coin, to the Secretary, or to A. E. SHANNON, Superintendent.
11-4t H. B. CONGDON, Sec'y.

Billet Gold & Silver Mining Company, Geo. Scott Ledge, Augusta Mining District, Lander County, N. T.—Notice is hereby given that at a meeting of the Board of Trustees of this Company, held this 5th day of March, A. D. 1864, an assessment of Twelve and one half (12½) cents per share was levied upon each and every share of the Capital Stock of the Company, payable immediately to the Secretary, in U. S. Gold Coin, at his Office, No. 509 Clay Street, San Francisco, or to S. F. AMBLER, at Austin, N. T. By order of the Board of Trustees. D. B. FRANCIS, Sec'y.
11v8-4t

Emmett Copper Mining Company, Office No. 645 Clay Street, San Francisco, February 19th, 1864.—Notice is hereby given to the Stockholders of the Emmett Copper Mining Company, that an assessment, No. 4, of 37½ cents per share was this day levied on each and every share of the Capital Stock of said Company, payable immediately in United States Gold Coin, to the Secretary, or to L. HONIGSBERGER, Copperopolis.
8v8-4t M. G. ELMORE, Sec'y.

Mining and Scientific Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

VOLUME VIII. SAN FRANCISCO, SATURDAY, APRIL 2, 1864. NUMBER 14.

Contents:

No. 14—April 2.—Physical Growth of San Francisco; Owensville Correspondence; Mill Valley; Copperopolis Correspondence; The Gold Hill Mines, Washoe; Crude Bullion; Reese River Correspondence; Keith's Desulphurizing Process; Copper in an Iron Mine near Marquette; British and American Copper Mines; The Vassar Female College; The Colorado Mines; Mining Gossip; Mining Share Remarks; Stock Reports; Washoe Stock Sales; Incorporations; Chippings and Items.

[Written for the Mining and Scientific Press.]

Physical Growth of San Francisco.

BY A SPECIAL CONTRIBUTOR.

Our city is extremely well watered. This is a trite and common truth; but few people, probably, have anything of a competent idea of the magnitude of the works, to which we are indebted for our full supply of the excellent gift of water. That which is furnished by the San Francisco Water Works, is drawn from Lobos Creek, a beautiful stream of pure, soft water that empties into the Bay near Point Lobos, or about three and a half miles from the Plaza.

THE RECEIVING RESERVOIR

Is on Black Point; and from this the water is raised by means of steam pumps to the Distributing Reservoir on the adjacent hills, the highest being three hundred and fifteen feet above high water mark. The capacity of this higher reservoir is 3,600,000 gallons; that of the lower is 7,800,000 gallons; and the supply drawn from this source amounts to between two and three million of gallons daily.

THE SPRING VALLEY WATER WORKS

Are not yet in complete operation. A large dam that will cover 100 acres of land and contain 1,500,000,000 gallons of water, is now being constructed. The work is of stone, and of the most solid and durable character. This vast retaining reservoir will be filled during the rainy season, and only be drawn from as may be required. The main supply of these works is drawn from various branches of the Pilarcitos Creek, in the Coast Range of mountains, about fifteen miles, in a southerly direction, from San Francisco. As the stream is taken at the hight of 700 feet above the level of the sea, it carries in its descent an immense impetus and head power. It is conducted through the main Coast Range, by means of a tunnel 1,500 feet in length, from the east end of which it is carried into Lake Honda back of the Mission, by a flume thirty-two miles in length, six miles of which are laid in iron pipe. This lake furnishes a fine natural reservoir, and is filled to the capacity of 100,000,000 of gallons.

In respect to water we are thus munificently providing for the future. But we are not so well furnished with facilities for taking the air on a grand scale; and it may be asked, in passing, how will the American genius meet this great demand, which, as yet, is so meagerly answered. Our city will soon rank among the largest and richest in the world. Shall we then have nothing that will correspond with Boston Common, Cove Park of Providence, and the numerous parks and Elysian Fields of New York, where our people can at once entertain and refresh themselves by objects of taste and beauty, with sufficient exercise in the open air? Something on the plan of the Tuilleries and Jardin des Plantes of Paris, which should combine with the pleasures of the walk valuable collections in natural history and botanical gardens, open and free to all, would be something worthy the citizens of the freest city in the freest land under Heaven. The same difficulty that has pushed all the mercantile part of the city out into the Bay, stands in the way of a Park—the want of land in the right neighborhood. But if we have it not here, we must go where it is; and with ears that traverse all our suburbs, there will not be so great difficulty in this. A site should be secured at an early day, before the land is all engrossed and unattainable. Men of taste and men of skill, thinkers and workers, citizens and legislators, see to it, that the future San Francisco has a park worthy a people so established, and so endowed.

In the few years of occupation there have been great strides in our municipal system, as well as elsewhere. From the remains of the Vigilance Committee came forth the People's Party, with a power that has made itself felt in salutary measures ever since, so that from being the worst governed city in the world, we may now fairly claim to rival the most advanced, in the excellence of our municipal arrangements.

In this we have the aid of a Police that is second to none. One Policeman is appointed in each ward; and it is required that he be of good moral character; and recommended by at least twenty of the citizens of the ward.

The Fire Department is equally efficient in its operations. It consists of 1,023 men, forming fourteen engine, two hook and ladder, and two hose companies. They have just added to their force two fine and very powerful steam fire engines; and they are soon to have a communication by telegraph, so as to waken all the wards simultaneously. There are in our city thirty-four cisterns, many of them substantially built, whose united capacity is 1,470,000 gallons of water.

Our commerce has sustained its full share of the common growth, since the primitive period when Mr. Jacob P. Leese planted himself on the shelly beach of Yerba Buena, and established the first mercantile relations in San Francisco. This was in 1837.

From statistics officially furnished I gather the following facts in relation to our commerce. The total amount of tonnage of vessels cleared from the port of San Francisco for foreign ports during the years 1854—63 inclusive is 3,159,621 tons. The total amount of tonnage of vessels entered the port of San Francisco, from foreign ports, during the same term is 2,036,592 tons. The excess of 1,123,029 tons cleared foreign, over those entering foreign, is owing to the fact that a large amount of tonnage (clipper ships) arrive here from New York, Boston and other eastern ports having domestic cargo, and proceed from this port on foreign voyages.

The value of Imports for 1863 was $10,000,000, and the value of exports for the same year, was $10.531,205, to which may be added gold and silver bullion, via. Panama, to England, about $30,000,000. The principal articles of import are cotton, silk, flax, hemp and iron manufactures; brandy, wines, segnrs, sugar, coffee and rice. The principal articles of export are gold and silver bullion, machinery and other manufactures of iron, hams, bacon, butter, lard, oil, cottou and woolen goods together with every kind of provisions and liquor. Wheat and flour compose a very important item; and here it may be observed, that the California wheat, as it contains a much greater proportion of the nutritive principle, or pure gluten, than any other, also has a greater reputation, and commands a higher price than any in the world.

TONNAGE.

Steamers enrolled (over 20 tons)	12,741	tons.
do registered	7,218	"
Sail vessels registered	31,906	"
Sail vessels enrolled (over 20 tons)	25,224	"
do licensed (under 20 tons)	1,862	"
Total	78,951	"

The amount of tonnage built at San Francisco in 1863 was about 4,500 tons.

Our chief trade is with China, Japan, Mexico, British North America, the Islands of the Pacific, (more particularly the Sandwich Islands) England, France, Germany and other European countries. A large amount of trade, paticularly dry goods, from England, is via. Steamer and Panama Rail Road.

And now, too, instead of creeping at the old snail-pace, that took at least a week or ten days to cross the bay, we have put on the more than "seven league boots" of steam power, with all the improvements of modern navigation. Yes; times are greatly changed since the gay little craft known as "The Steamboat," *par excellence*, made her experimental excursion around "Wood Island," and her first trip to Santa Clara. We have now at least twenty ocean steamers of the first class, that connect this with the East, North and South; three daily lines of large steamboats, that ply between San Francisco and Sacramento, Petaluma and Stockton, touching at all the subjacent towns; four lines that leave every alternate day for Napa, San Jose, Sonoma and Suisun, and three lines of ferry boats to Alcatraz, Contra Costa and Oaklaud, that leave at stated hours several times a day. And so we advance; and yet it is only sixteen years since "*The* Steamboat" was the pet plaything of the whole Bay without a rival, or fear of competition. Could Mr. Leidesdorff have foreseen this, or Mr. Leese when he opened his goods so gaily to the visitors, who had assisted him in the celebration of the first Fourth of July kept in San Francisco; or could Captain Richardson, when he occupied the whole harbor with his two small sloops, engrossing all the proper commerce by transporting hither for the supply of seagoing ships that casually entered, a few tons of hides, tallow and farm produce? But a tithe of what we now see set forth, in the full array of unimpeachable fact, would then have been regarded as extravagant and unwarrantable expectation. The great question now is, having achieved all this, what shall be done next? How shall we make the future worthy of the past? This is a problem worthy of our best attention, and one which, as a people, we must solve. The eyes of the whole world are fixed upon us; and it remains to be shown whether so grand a beginning *could* fall back into the dull, stale common-place of the world at large.

One of the most important features of domestic policy is the maintainance of Home Insurance Companies. These are the truest signs of health in the body politic, because they indicate a sense of security, and the capacity of self protection. Nor is this the only advantage; but the large sums which are paid into the several policies, instead of being sent abroad to support foreign companies, are retained at home; and the whole community will be thus enriched. The present aspect of business in this direction is healthful and encouraging. Several new companies have been established during the past year, while others still are going into successful operation, with an aggregate capital of more than a million of dollars.

Another healthy feature of our municipal association, is the great number of protective interests, which it embraces and maintains. Almost all the branches of manufacturers and mechanics are associating themselves for self improvement, and self protection. This is well, for many reasons. The social interests which they involve, warm our working-day life with the brightness of occasional holidays; while, on the other hand, the frequent comparison of work, and the effort to compare well, excite emulation and an honorable ambition for artistic excellence, be the work ever so humble. And when we superadd to these, the mental improvements which frequently

flow in, we see in the wisdom of that arraagement by which mea of the same craft hind themselves together, something more thaa mere helps in sickness, privation or death; for by such unions life itself is eariched and made more beautiful.

In this placo our Homestead Associations deserve a particular notice. Any motive or ohject, which tends to gather up aad consolidate small saviags—to fix and reader fruitful, otherwise fugitive sums of moaey, must he, hoth as regards the individual aud the community, an operation of the truest conservatism. Anything, in short, which teads to relieve the poor lahoring man, or the self dependent widow, from the exhaastiag drains of the rent system, must be a commoa heuefit. Whoever in the space of a few years, converts the teaaat of another man, into the iadependent proprietor, as well as occupaat, of his own house, must he his henefactor. Surely, it is hetter to pay the Association, and own the house, where one can he free to strike root, and make improvements in a general way, than to pay the landlord—perhaps an equal. or greater sum—and yet he always a homeless wanderer on the face of the earth.

Statistics of our Military and Naval force should have come in here hut I shall he obliged to defer them to another time when the couaty of San Francisco will he described.

[Written for the Mining and Scientific Press.]

Owensville Correspondence.

Messrs. Editors:—I left San Francisco on the 19th of Februaary and arrived here three days ago, having been absent since the 15th of Decemher. I find everything in the valley in a flourishing coaditioa—far hetter than I had anticipated. My ronte hither lay by way of Stockton, Hornitos and Millerton to Visalia; from thence, on horsehaek, by way of Liua's Valley, Kern river and Owen's lake. This route is a very good oae for parties coming through at this seasou of the year. The McFarland wagon road is nearly completed, and will he passahle for two and four-horse teams hy the first of April. This road, whea finished, will he one of the finest grades in the State, and hy reason of the lowness of the Pass will never he hlocked with saow. Parties are also at work opening a pack trail from Visalia to Owens lake. It will soon he opened for travel.

As I came up from Owens lake, my attention was called to the important change which has recently taken place in the country. Large numhers of farmers have settled in the valley, and are now fenciag and improving their land. At the Lone Pine, a short distance above the lake, and also near Camp Independence, opposite San Carlos, there are heavy improvements going on. Bishop's Creek Valley, opposite this place, is thickly settled, there haviag been over one hundred and fifty quarter sections of land located within the last four months. Our farmers are in much need of lumher for fenciag and buildiug purposes, although for the former they are ditching, while for the latter they use adobes. At Owensville, however, their chief huilding material is a light porous rock, found some three miles ahove the town, which is so light that four yoke of oxen can haul three perch at a time. There are several fine huildiugs of dressed stone now erected, and others alreadv under way. There is hut one sawmill now running in the valley. It is situated on Big Pine Creek, some fifteen miles south of this place. There are parties here who have located a mill site on Bishop's creek, and are about to send for their machinery.

THE NEW PLACER DIOGINGS.

There has heen, and still is, considerahle excitement about some placer mines lately discovered on Bishop's creek, some twelve miles from here. I am told they have found some shallow gulches that will pay to work, and parties are now prospecting for deep diggings. They all seem to think they have rich placers. I have seen some very fine prospects from there, amountiag, in some instances, to fifteen cents to the pan. The gold is very hright and quite fine, seldom exceeding the size of a pin-head, and has the appearance of quartz gold. Very rich quartz has also been fonnd in the same vicinity, in some of which the gold is plainly seen. The quartz mines in this region are mostly in process of rapid development. San Carlos and Bend City, two rival towns in Inyo district, are growiag very rapidly, and present a lively appearance.

The miners in the vicinity keep up a constant roar, one hlast following another in quick succession. The principal mines now at work are the San Carlos, Clara, Santa Rita, Charleston, Nelson, Molten and Lawrence. The Chrysopolis mines, eight miles above San Carlos, are also being worked. Of the miaes in the White Mouutain district I know hut little, further than they are at work on Miaeral Hill and the Palmetto and Grey Eagle lodes. Of the miaes in this vicinity, the Rubicon, Marathon, Alameda and Rhode Islaad Companies are hard at work. Their ledges are mostly silver-bearing rock. Two new miaiag districts have heen formed lately—one called Montgomery, formed out of the Lone Pine and Slate Mouutain districts, is highly spoken of. I have seen soaie very rich silver ore from that district, in character not unlike the Washoe rock. The other is called Joaquin district, on Bishop's creek.

With regard to Indian troubles in this valley, they are at an end; there are too maay whites here now for the Indians to ever he able to give us much more trouble. They bave already treated for peace, aad are allowed to come into the valley. Many are at work for the farmers. The emigration to this valley is quite brisk, although the drouth on the other side of the Sierra keeps many back that would otherwise come. There is quite a contrast between the Saa Joaquia plain and this green fertile valley.

Limestoue is heing huraed, with complete success, ou Silver creek, some three miles east of this place.

Owensville, March 14, 1864. Concord.

[Written for the Mining and Scientific Press.]

Mill Valley.

Mill Valley is the name of a new miaing district hetween Jesus Maria and Murray creeks, and ahout ten miles from Mokelumne Hill. As yet hut little has heen douo here heyond locating claims and incorporating compaaies to work them. As hy the laws of the district all claims must he worked in April, we may soon expect to see lively times here.

The Salamander Compaay is located on the western edge of the district. They hold 4,000 feet, a share to a foot; capital stock, $80,000. This company is already at work, with day and night shifts, running a tunnel to "cross-cut" the veins at a depth of 100 feet. A sample of 500 lbs. from the croppings, worked at the South Park mill, in San Francisco, yielded a result upon which the company felt fully warranted to commence operations. The rock produced gold and silver. Mr. Hamilton, the foreman of the company, iaforms me that it is their inteution to erect a water-power mill, so located that the ore from the mine can he dumped, through a shuto, direct to the stamps. This mine is owned chiefly in San Francisco—Mr. Jackson, of the Paeific Temperanec Houso, and Mr. Gallagher, of Front street, being the priacipal owners.

About two miles north of this is the Chilean Company's claim, known as the "Whisky Slide claim." This has heen hut recently opened, and is supposed hy some to he a continuation of the Salamander; hut of this I am in doubt, as the rock from the two claims is quite different, the latter being much decomposed and holding much pure gold, which ean he hammered out in considerable quantities, and is the only method as yet employed hy this company for its extraction.

Still farther north is another claim, owned chiefly hy Chileans, and known as the Esperanza claim. It is located on the creek of that name, which forms the north fork of the Calaveras river. This vein is said to carry hoth gold and silver, as well as copper; but is valued chiefly for its yield of the latter metal. I am not aware of the size or extent of this claim, nor number of shareholders, suffice it to say that they have a good prospect, and seem to he aware of that fact. This vein I think to be a contiauation of what is known as the Slug Gulch vein, situate in El Dorado county, as the mineral bears a strong resemhlaace, and is found close to the Limestone rauge, in each locality.

Before closing this letter, allow me to say that the letters of your traveling correspondent, "L. H.," have given a fresh impulse to miniug in this section, by creating a confidence in this hranch of industry, herctofore looked upon as ephemeral. R. W. D.

Mokelumne Hill, March 27, 1864.

The Pioneer Foundry, at Virginia City, is said to be doing quite an extensive business. The arrangemeuts are such that castiags of 6,000 pounds are readily made. The average aggregate weight of the castiags made here is hetween five aud six tons per day.

Rich Ore—Ore from the Great Central mine, Arizoaa, yields 63 per cent. of copper and $186 of silver per ton.

Copperopolis Correspondence.

Editor Scientific Press:—As you have had no coatributions from this region for some time, it may perhaps be agreeable to some of your readers to know, notwithstanding the depreciation of mining stocks in your, city, that hereabouts we are moviag on, in the even tenor of our way, with as much zeal and confidence in the ultimate success of our miues (harriug "Wild Cat") as if thore were no such thing as Stock Brokers.

Prospecting is again heing renewed, aad the indications are that as much will he dono in this liae, the coming spring and sumuer, as has heeu during tho two years last past. All are fully aware that the time for "Wild Cat" speculation is over; but the time has not yet come when good ore fails to ho worth money. Aeting upon this hypothesis, men in this part of the miniag regiou are makiag up their minds to rely less on *duping* foreign capital, aud more upon their own energies aad resources. Thus you see that the copper miaing incorporations that have heen formed, the last two or three months havo a more direct eyo to busiaess and economy, than stock johhing in San Francisco. First, in this class, is a new discovery lately incorporated uader the name of

"MOUNTAIN TOP."

It is situated in the top of a mountain, as its name indicates, ahout four miles east of Copperopolis. The company have sunk a shaft upon the lead to the depth of twenty feet, and have already taken out five or six tons of good ore. For the amount of lahor done, the prospect far surpasses aay thiag I have seen in this region outside of the Copperopolis leads.

Such a prospect, during the excitement of last year and the year previous would havo sold readily for fifty dollars per foot. But for want of confidence, or lack of money, and perhaps both, ao stoek has yet been sold for more than ten dollars. It is mainly owned by laboring men, who seem rather determined to tax themselves to develop it than to dispose of their flatteriug prospect for a nominal sum.

Next in order and in the same vicinity is the

TABLE MOUNTAIN COPPER MINE.

This miae having been worked for the past two years, is too well known to need any description as to location, etc. The company have continued to work the mine. through the winter, by siaking a shaft upon their lead to the depth of one hundred and forty feet. At this depth it is about four feet wide, intermixed with "flocking," slate and ore; the quantity and quality of the ore is improving, and from appearances they are nearing the water level; where it is confidently helieved they will have a good body of ore. Although the actual quantity of number one ore taken out is small in proportion to the lahor done, yet to that depth the lead is unbroken, and is as well defined, with as good walls as any lead I ever saw. A large quantity of second class ore has been takeu out, and when the time comes for dumping these ores for machinery, as is doue elsewhere, this mine may he set down as a paying institution, if not long before that time. They have now commeuced to drift upon the lead at the depth of one hundred feet, and are taking out number one ore at the rate of a ton per day. You may look for a good shipment from this mine hy the first of May. Observer.

Copperopolis, March 26, 1864.

What "Crude Bullion" is.—The Gold Hill *News* says:—"What is spoken of hy the papers of this Territory as "crude hullion," crude "amalgam," etc, is the cakes of silver, and what other metals there are mixed with it, as they come from the retorts of the various mills. It is sometimes in large square cakes of the same size as the pans in which the amalgam was placed for retorting, and again in lumps of no particular form, just as it crumhles up on being taken from the retorts. When a very strong heat is applied in retorting, the silver partially melts, and a solid cake is the result; where the heat was not so strong, the cake more easily hreaks to pieces. This retorted amalgam, whether in cakes or crumhled into lumps, is the crude bullion as it is received hy the assayers to he moulded into solid bars aad assayed.

A Gold Hill Foundry.—We are iaformed that the "Pioneer Foundry and Machine Shop," advertised in the Press hy Oliver Hyde, Jr., is one of the hest and most thoroughly conducted establishmeuts in the Territory.

Reese River Correspondence.

Having a good fire, a bright camp, and an hour to spare before going to bed, I will comply with a request which you made some time since, and give you my opinion of our country and some of its mines. The success, eventually, of this portion of Nevada Territory, as a mining region, is no longer a matter of doubt; it is a fixed fact. It is however a matter of time and capital. The wealth is here, to be disemboweled from the hills on the homeopathic plan of like curing like; if you burn your finger hold it to the fire; if you freeze your feet put them in snow. If you want to get silver in these mines, you must put capital into them. There is not much doubt that in five or ten years, incomes, such as are rare now in America, will be derived from our silver mines; it is equally certain that the nomadic race who wear their ruffles where the seat of their trowsers ought to be; and who, in the possession of hundreds and thousands of feet, under the influence of "Tarantula juice" boast of their prospective wealth, will either be idlers and vagabonds, or working by the day for those who are now trying to extract the metal from the rock, and not depending for a living upon selling "feet."

We have all been most agreeably disappointed in the winter weather here. The winds which were said to prevail in the Territory, have not been turned loose; the temperature has been delightful, so much so as to elicit approbation from persons hailing from all parts of California. No country can boast of a milder or more pleasant winter so far; incomparably better than the heat and dust of summer.

In regard to the preference to be given to any particular district, or any particular mine, each person seems to be guided by the interest which he has in them. The disputants have not yet decided emphatically which are the best—the small ledges in the granite formation about Austin, extending some five miles north to San Francisco Cañon, and about three miles south; or the much larger and more imposing looking ledges in the slate formation, outside of those limits. The small ledges in granite are immensely rich from the very surface. They vary in width from two or three inches to five and six feet on top; invariably I may say widening out as you go down on them; and changing from chlorides to sulphurets. In all of the claims upon which work enough has been done to reach the water—in this vicinity at a depth of from thirty to sixty feet—the rock assumes the steel gray appearance of the Virginia first class ores. On the wider ledges of the slate districts the rock seems to be of a different character on top. The most prominent districts are the Amador, Mount Hope, Yankee Blade, Reese River (Austin and vicinity) Washington, Union, San Antonio, Smoky Valley, Santa Fee, and Bunker Hill.

With the usual levity of a mining community the crowd rushes to the newest discovery. Union and San Antonio districts are the great attraction at present, to be superceded in their turn by another discovery in a few weeks. The only unsolved problem about the Union is as to the amount of quartz; what there is is rich beyond dispute. Four or five towns have already sprung up there. The rock from San Antonio, which is one hundred and ten miles south-east of this place, assays from nine hundred dollars a ton up to thousands, and the ledges are very wide. A wagon load of the top rock from a number of ledges in that district was brought up yesterday, and certainly it looks well, if there is any thing in that. It will be tried by mill process at once, and the question settled. There is said to be a great scarcity of wood and water in that section.

Washington district, thirty-five miles south of this, has had its share of turmoil, scrambling for feet, jumping town lots and fighting for wood ranches; and the crowd which has swept over it, for greener fields in the distance, has left it in good hands. I am not writing this to influence any one's judgment in regard to the value of any mine, or the probable future of any locality; so I think it fair to tell you that I think more favorably of Washington than of any other district, and that I am largely interested in the mines there. San Pedro and Cottonwood creeks flow down cañons of the same names, at a distance of one mile from each other, and are respectably sized streams of pure mountain water and inhabited by speckled trout. The town of Washington is near the mouth of the first mentioned cañon, San Pedro, and the town of St. Augustine is at or near the mouth of Cottonwood cañon.

Washington has about sixty houses, in a situation beautiful adapted for a town. There is some rivalry between the two places, but Washington most probably will retain the advantage she possesses, as a fifteen-stamp mill is now in process of erection, the machinery being all on the ground. There is an abundance of water and plenty of desirable mill sites for a number of mills in either cañon. The ledges in this district are very wide, and well defined. They can be traced in some instances for miles. Notwithstanding new districts are being formed, locating and prospecting goes on briskly. The most prominent companies that I know of are the "New Hope Company" and the "Yuba Mining Company." They are both said to possess capital and certainly they have both done a good deal towards developing that district. The New Hope intend to erect a first class mill, as soon as the machinery can be brought over. They have tested the ledge from which the company takes its name in some arastras, and it pays $250 per ton from the very top, where it crops out of the ground. The Yuba company will most probably erect a mill as soon as they have thoroughly tested the rock from their various ledges. This district is better supplied with wood than any other that I know of. The favorite ledges in this section are the New Hope, Sacramento, St. Louis, Mattie Ann, Dora, Geneva, Santa Rosa, Live Oak and Don Quixote. The San Domingo is thought to be a very good ledge; a Spanish company own it and are blasting and working it six feet above the top of the ground, where the croppings stand out like the Chinese wall. The rock looks well and they say that it pays.

If I find another leisure hour I will give you my views of some of the other districts. ***

The Gold Hill Mines—Washoe.

The mines of Gold Hill, according to the *News*, published at that place, are divided into small claims and are therefore not able to make so imposing an appearance as some other mines in the Washoe region, where all the production comes together into a few hands in one "pile," before it is divided up into dividends among claim owners. The old claims of Gold Hill have paid dividends to their owners from the very surface. First, they were worked with a pan and rocker, and afterwards quartz was taken out with the windlass, then with aid of horse power, and now the work is done by the assistance of steam. The amount of silver and gold which has been extracted from these mines since they were first worked is enormous.

With a linear space of 680 feet the Gold Hill mines are divided into seven different claims. Within this space 219 workmen find employment, and six engines with an aggregate of 200-horse power. There is no other place in the Territory, adds the *News*, which has so many claims upon the same number of feet of ledge, or employs so many men, or has such facilities for working it. The mines of this district stand pre-eminent both in number and quality over those of any other mining district on this coast. There is no other 658 feet of ledge which gives employment to 219 workmen, or has machinery of 200-horse power for hoisting purposes alone. These facts tell their own story. Where so much physical and mechanical power is combined for the one purpose of bringing out ores as rich as those of the Gold Hill mines, the yield must be enormous, as in fact it is. The people may well feel proud of such sources of wealth as these—and our town, sprung up in so short a time on the proceeds of their wealth, will never fail from a decrease of their production. Four hundred and twenty feet is the deepest point yet obtained in any of our mines—and that only by a shaft—the rich ledges have hardly been disturbed at a greater depth than half that distance. The production of our mines may go on unabated for years before they will be worked to the depth which the Mexicans have gone in theirs, and almost for centuries before they will be worked as deep as the silver mines of Sweden.

For Silver Mountain.—Dr. J. T. Harrison and George Pomeroy, of San José, are about opening a drug store and assay office at Silver Mountain, Amador county. From personal acquaintance, we recommend them to the citizens of that new and flourishing mining section as young men competent and worthy of patronage.

Adjutant-General's Report.—We are indebted to Gen. Wm. C. Kibbe for a copy of his annual report.

KEITH'S DESULPHURIZING PROCESS.

The Colorado papers have been quite silent about this "process" for some months past. Our last intelligence with regard to it from that quarter, it will be recollected, pronounced it a success. Since that time we have seen no further reports, until the following, which we clip from the Colorado *Journal*, of a recent date. It at least shows "progress:"—

Keith is on the right track, and is bound to tow Colorado gold-mining out into smooth water. The impression prevails largely that his process cannot be used in connection with stamps. It is a mistaken impression. All that is necessary is to save the tailings, which is usually done anyhow, run them through the furnace, which is cheaply constructed, and amalgamate either in the Freyburg Pan or as future experiments shall indicate. No increase of power will be necessary; no throwing aside of costly machinery already in use. But a small outlay will be required to introduce the desulphurizing process, now proven beyond a doubt to be a success, universally. The mill is now running on ore from the Mammoth, with satisfactory results. But the machinery now in is so inadequate to the power that an intelligible judgment of the process cannot be made up from present operations. Let them get in three more heaters, and twenty-four instead of two pans, and then we shall have results from which an estimate can be made that will satisfy all. Mr. Keith is now preparing the dry amalgamator, of which we have spoken before, for use. Startling developments are expected from its introduction. Other parties are busily experimenting on this desulphurizing business, which, when perfected, is to save thousands of dollars heretofore remaining in the tailings or carried off by the water.

It would appear from the above that the desulphurizing process is a success, and we infer that the "failure," if any exists, is found in the process for reducing the quartz, which must be accomplished without water, and to a degree of fineness fully equal to the pulp that comes from our most thorough pan process. The reduction machinery employed by Mr. Keith is a kind of beater, which was fully described in the Mining and Scientific Press of July 6, 1863. These machines are known as "Howell's Crushers," and are manufactured at the Golden State Foundry, in this city.

One great trouble heretofore encountered in running these machines arises from their liability to burst when running at a high speed. One of these machines has just been constructed at the above named foundry, under the immediate direction of Professor Ryerson, which is a great improvement on those heretofore employed. The danger of accident from breakage is almost entirely surmounted by giving additional strength where it is needed, and by a more perfect construction of all its parts, whereby it is made to run much more smoothly than any now in use, and may be driven at a much higher rate of speed. The Professor is quite sanguine that he has brought out a machine which is just the thing for crushing quartz everywhere. The machine will soon be put to work in a mill in the southern portion of the State, and we shall probably be able to report with regard to its success at an early day.

Boiled Food for Animals.—Prof. Mapes, of New York, recently read a paper before the Farmers' Club of New York, in which he showed, by well attested experiments, that the difference between feeding raw and boiled food to hogs was as 4¼ to 13; that is, pork fed on raw food costs but 4¼ cents, exclusive of the cost of cooking. We are not informed of the character of the food employed. These experiments were made by Mr. Mason, of Camden, N. J. The Professor also gave the name of Mr. Henry Ellsworth, who had also made extensive experiments, which resulted in the proof that 13 pounds of boiled corn would make as much pork as 30 pounds of raw corn.

Another Dividend-Paying Company.—The Crescent Quartz Mining Company, of Indian Valley, Plumas county, Cal., has declared a divided of $50 per share, payable in this city. The stock of this company has never been offered in the San Francisco stock market to any extent at all.

[Written for the Mining and Scientific Press.]

MINING GOSSIP.

EDITED BY FRANK WARDDELL.

ANOTHER STOCK SUIT.—Mr. Charles Cavanaugh commenced suit in the 12th District Court, on the 31st ult., against the Trustees of the Potosi Mining Company, to compel them to issue to him fifty shares of the capital stock of said company. In his complaint he avers that the original owners of the mine employed George Draper and himself to prospect the claim and make a report as to its true value; in consideration of which they were to receive jointly, in payment, one hundred and seventy-five feet in the ledge. The work was accordingly performed, the report made, and a deed for eighty-seven and a half feet given to said Cavanaugh. After which the company was incorporated, the capital stock was fixed at four hundred thousand dollars, and divided into shares of five hundred dollars each. As the other parties conveyed their interests to the company, Mr. Cavanaugh of course did the same as the rest, agreeing to take the amount in shares, which would amount to one hundred and seventy-five; instead of which he received only one hundred and twenty-five. He has made many demands for the stock from the trustees for the balance of fifty shares, but they refuse to give it to him. He therefore asks the Court to issue a writ of mandamus compelling them to issue the stock to him.

THE NEWTON COPPER MINE.—The proprietors of this mine have spent the greater portion of the past winter in re-timbering their works and in putting up machinery. The mine never looked better than at the present time. The lode has now been followed down from the surface a distance of 170 feet; from which point a drift has been run south 250 feet. Throughout the entire extent of both the shaft and drift the mine presents a continuous, well defined lode, yielding ore of percentage sufficiently high to justify the shipment of the entire mass as it comes out. The proprietors, however, have thought it economy to sort the ore, and will do so hereafter, reserving the lower grades for future treatment and disposition. During the past year full $20,000 in value of ore from this mine has been sold and delivered to Mr. J. F. Greenman of this city; in addition to which a considerable amount has been shipped to Europe. The claim consists of 1800 feet, every foot of which is still retained in the hands of the original locators. The Company was incorporated a short time since, and they have the satisfaction of knowing that the Corporation is free from debt, with no prospect of its being incumbered in that way. Although the mine has been under active operation for eighteen months, the assessment book has never been used. The Company will resume operations again in about ten days, after which it is believed that shipments will continue uninterrupted.

HEAVY SUIT AND QUEER DOINGS.—A suit has been commenced in the Fourth District Court, by Mr. J. G. Shirts against Hall Mc Allister, the well known attorney-at-law of this city. The suit is commenced to recover the sum of twenty thousand dollars in gold coin. In reading the complaint we find that plaintiff alleges that Mr. L. Maynard placed in the defendants hands, in trust for plaintiff, twenty shares of the capital stock of the Potosi G. and S. M. Co., which in the month of September last, according to market rates, was worth fifteen thousand dollars; also he deposited a certified check on Donahoe, Ralston & Co. for five thousand dollars, and that now the defendant refuses to give them up to plaintiff; and has wrongly converted them. Rumor says that the suit has grown out of the controversy between the Chollar & Potosi mining companies, and when the proceedings are brought to light they will reveal many funny transactions.

Since the above was in type we have heard that the defendant has in his possession, and ready to deliver, the mining stock and certified check in the same form in which they were received.

CROCKET, ESMERALDA.—This stock does not seem to improve; although we hear of one large sale to an outside purchaser, who intends holding.

SAVAGE VS. NORTH POTOSI.—The important suit between these two companies will be called up for trial before Judge North, next Monday.

INDEPENDENT, G. H.—We learn that the application of this company for a restraining order against the Justice mine has been denied.

COPPER ORE.—We have had shown to us some splendid specimens of copper ore with traces in it of both gold and silver, they are from the Henry and Bernard mine, situated in Weaver District, Arizona.

WAGON ROAD.—A meeting will be held on the 6th of April, at Red Bluff, for the purpose of organizing a Wagon Road Company, to the Boise Mines. The project is a good one and we trust they will be successful.

NORTH AMERICAN.—This stock, toward the close of the week, has taken another of those semi-monthly flights now so common. It is again away up and the probabilities are that by the time of our next issue it will be away down. The excitement regarding this stock is fictitious, nothing to warrant it.

LADY BRYAN.—This much admired lady has been dancing some very curious steps in the several boards, for the past few days. It is quietly remarked among the "knowing ones" that the lowering of the stock was only a little dodge of their own to "knock" it so as to make the "30-day sellers" of the stock come out right, on their contracts.

SUIT DECIDED.—The injunction suit of the Potosi against the Chollar Mining Company, was decided on the 31st ult., in favor of the Potosi, which makes the injunction a perpetual one. Upon this news being received here, Chollar dropped from $375 to $300 per foot.

CRESCENT QUARTZ MINING CO.—This company which is located at Indian Valley, Plumas county, California, have had the good fortune to be able to declare the respectable dividend of $50 per share. This is what we consider something like a dividend to be declared, especially by an outside company.

BEST AND BELCHER.—The flow of water in the shaft of this mine is said to have diminished very much during the past few days, so much so that no difficulty is now experienced in keeping the mine free from water, without the aid of their pumps. There are only 224 feet in this company's ground and if they should make a lucky strike, the stock would go up in the market to a fabulous figure.

OWENS RIVER.—The emigration to this place continues to be as great as ever, they are coming in, according to last accounts, from every direction. New mines, and rich ones at that, are being discovered every day. Many companies are hard at work and are highly delighted with their prospects. What they now want is a plenty of good mills. The climate is a beautiful and healthy one to live in, and this is destined to be a great mining locality.

IDAHO.—For the benefit of those who always rush off in all wild excitements, without stopping to reflect, we clip the following from the Chicago *Tribune*, the same having been sent them from their own correspondent. The paragraph will illustrate the "*modus operandi*" by which our miners are so often deluded:—

"I have seen a reliable gentleman just from Idaho, and he says the story about that fifteen millions of dollars in gold awaiting transportation is all hosh; and adds there is not enough gold dug out in the whole Territory to pay the expenses of getting the emigrants home, and that all these big stories telegraphed from St. Paul and New York, just before Spring opens, are the fabrications of speculators, to get up a rush of deluded emigrants."

There are undoubtedly paying mines in Idaho; but nothing at all adequate to warrant the present excitement and rush in that direction.

BRITISH AND AMERICA COPPER MINES—THEIR RELATIVE PRODUCT.—During the year 1862, the Lake Superior mines sent to market three-fifths as much copper as was obtained from all the British mines; and it is confidently predicted that the yield of the first named mines, the present year, will exceed that of the English mines, during the same period. In Great Britain the copper mines have been worked for centuries, whereas less than a score of years have elapsed since the first ton of native copper was shipped from Lake Superior. In Great Britain the copper mines are giving out—are yielding a diminished product; at Lake Superior virgin veins and lodes are every year uncovered and developed, the yield being rich and unfailing, and the prospect being full of profit and promise.

The above results are most encouraging to the copper mines of California. Lake Superior, in less than a score of years, has increased her yield of copper to an extent equal to that which Great Britain has attained only after the lapse of many centuries. Neither is there any danger of overstocking the market, as we have already seen that although the yield of copper has been doubled within a few years, so great has been the increase in demand for its product that its price has been constantly enhancing. The demand will be fully equal to the increasing yield of both the Lake Superior and California produce.

NEW QUARTZ MILLS.—The Shasta *Courier* is informed that the Mammoth Quartz Mining Company are about receiving the machinery for their mill. Workmen are now engaged in getting out timber, and preparing a foundation for the mill, which will be ready when the machinery arrives. They expect to have their mill running by the first of July, at farthest. The machinery for the Spring creek custom mill will also be *en route* for its location by the fifth of the present month, and by the time it arrives everything will be ready to place it in position for work. This company are taking hold of their work with great energy, and will soon be crushing quartz from the many rich gold bearing leads in this vicinity.

From the same paper we learn that the Original Bully Hill Copper Company have commenced taking out copper ore from a well-defined lode at the bottom of their shaft in the upper tunnel, and will soon begin to ship to San Francisco. The Daniel Webster, on Buck Gulch, has abundance of rich silver bearing rock in sight, but work has been suspended for the present, waiting for the heavy rains to pass by, as the company contemplate sinking a shaft directly in the bed of the gulch. The Original Twenty-Six Company have temporarily suspended work. They are running a tunnel for the purpose of cutting a series of veins at right angles, and at a great depth from the surface. Work will be resumed in a few days. The *Courier* adds that evidences of there being a large population in the region of these mines in a few months are beyond all question, and that even now Copper City is one of the busiest places in the county, and reminds one of early times in the mines. The Original Williams and Kellenger Company have not yet found a well defined ledge, but have a very large mass of rich ore, which looks to be inexhaustible. Shipments of ore from this mine have been temporarily suspended for the want of proper sacks to secure the ore from waste. The Original Minnesota Company have their lower tunnel in 80 feet, and will strike a ledge in about 90 feet more. Specimens from their upper tunnel assay very rich in silver. They have a well defined lode, easily traced by the croppings, and this mine is evidently one of the best in the district.

THE editor of the Nevada *Gazette* has seen, at Birdseye & Co.'s banking house, a bag containing $4,000 in gold—the result of the crushing, at Ott's mill, of 120 tons of rock from the Federal Loan Company's claim on Deer creek, about three miles east of Nevada. This is a good paying yield. The Gallagher, Decker, Deadwood and Lecompton quartz claims, all in the vicinity of the Federal Loan, are paying well.

NEW MILL.—The Stockton *Independent* says that a large steam engine, boiler, and the machinery for a ten-stamp quartz mill has just been forwarded by Smith Whiting, for Messrs. Staples & Wentworth, of Sonora. The mill will be erected on a paying quartz vein about twelve miles above Sonora, on the line of the Mono road.

Copper Discovered in an Iron Mine near Marquette.

Late observations have disclosed the existence of a vein of rich copper ore at the Lake Superior mine, which bids fair to add largely to the profits of mining. The vein is enclosed in walls of iron ore, and extends across the formation, running in a northerly and southerly course. The appearance of the vein matter is not very different from ordinary hematite and decomposed slaty iron ore, being evidently colored by the iron with which it is in contact. It consists principally of a black oxide, but contains some traces of sulphuret of copper, and is somewhat mingled with iron ore. It is quite soft, and from some imperfect tests made, it is thought to contain from 5 to 50 per cent. of copper. The vein has been traced about 400 feet on the surface, and the iron mining operations have opened it to a depth of 40 feet. The general width is about four inches, but in places are found pockets three feet or more in thickness. This vein matter has been heretofore taken out together with the iron ore with which it is enclosed, and shipped with it as iron ore. Not long since, Mr. Palmer, a furnace proprietor in Buffalo, called the attention of Mr. Ely, agent of the mine, to the fact that, on removing the hearth of his furnace, in which he had been smelting ore from the Lake Superior mine, he had discovered a mass of pure copper, of over a ton in weight, which had found its way through the crevices in the hearth. As different analyses of the rock ore have shown no copper, Mr. Ely came to the conclusion that this copper must be in some particular part of the mine, and not generally diffused through it. He, therefore, went to the mine recently for the purpose of ascertaining, if possible, where it was. After a little search, his attention was attracted to this vein, and a close inspection convinced him that it contained the copper. Subsequent tests have proved the correctness of his conclusion. Had this been supposed to be a copper region, the vein would undoubtedly have been discovered long ago; but being in an iron mine, within walls of iron ore, and having the general appearance of decomposed iron ore, nothing was thought of it.

The value of this discovery cannot, at present, be determined. So long as it is found in iron ore, it can be mined without extra expense. In quarrying out the iron, all they have to do is to gather up the copper ore by itself, and realize an average of $75 to $100 per ton, as such, instead of the price of iron ore. But the work so far is, comparatively speaking, only surface work. It is quite natural to conclude that it may widen, or that the pockets may be more frequent as it goes down, and that it will be profitable to work even independent of the iron. And why may it not reasonably be supposed that other veins of equal or greater richness exist, which a little well directed search will disclose. Similar veins have been discovered in the Silver Lead district, crossing the formation like this, and there is no apparent reason why they should not be found in greater numbers in the iron range.—*Lake Superior News and Journal.*

Blue Mountain.—The Heckindorn Company, according to the Calaveras *Chronicle*, have just put their machinery in motion, and practically tested the quality of their argentiferous rock. Besides doing material good to the agricultural districts, the rains gave this company an opportunity to crush some nine tons of ore, which yielded gold and silver to the amount of $130 per ton, and the most doubtful Thomas was fully convinced that Blue Mountain will prove a success. The vein is four feet in width at a depth of sixteen feet from the surface when the rock was taken out. The mill is a small one, having only four stamps and one of Hepburn's pans. The late rains will give the company plenty of water for the next few months. The mill will be run as long as the supply lasts. The Blue Mountain claim joins the Heckindora within six feet from the mouth of the tunnel from whence the ore crushed was taken. The *Chronicle* expects to hear that several steam mills will be put up immediately in the neighborhood. The Gold Quarter, Celina, Sailor, Mountain Crest, and other leads prospect finely. Blue Mountain will be a lively place this summer.

The Recent Quicksilver Discovery in San Luis Obispo county, is undoubtedly one of much value. It is being developed by experienced workmen from the New Almaden mine. The rock already taken out is very rich. The mine is located on the summit of the Coast Range divide, about 15 miles from San Simon Bay, to which a good road can be made at small expense. The ore is pronounced superior to that obtained at the New Almaden mine.

The Eureka Company, at North San Juan, Nevada county, recently cleaned up $12,000 from less than two weeks' run—mostly from top rock.

Ancient Philosophers.—Although nothing like the true system of natural philosophy was known to the ancients, on account of their utter inattention to experiment, there are nevertheless to be found in their writings many brilliant conceptions, several fortunate conjectures, and gleams of the light which was afterwards to be so generally diffused.

Anaxagoras, for example, who thought that the sun was a red hot iron, as large as the Peloponesus, taught at the same time the just doctrine that the moon shines by light borrowed from the sun; and was led to that opinion not only from the phases of the moon, but from its light being weak and unaccompanied by heat.

Democritus, who maintained that the sun and moon are bodies no larger than they appear to us to be, supposed correctly, though very inconsistently, that the spots on the face of the moon arise from the inequalities of the surface, and from the shadows of the more elevated parts projected on the plains. Every one knows how conformable this is to the discoveries since made by the telescope.

The same philosopher was still more fortunate in another way. He taught that the milky way is the light of a great number of small stars very close to one another; a magnificent conception which the latest improvements of the telescope have fully verified.

Plutarch, whose ideas were encumbered with fewer absurdities than most of the ancient philosophers, considers the velocity of the moon's motion as the cause which prevents that body from falling to the earth, just as the motion of a stone in a sling prevents it from falling to the ground—a comparison which clearly implied the notion of centrifugal force.

All such conjectures, however, were the mere speculators of ingenious minds, wandering through the regions of possibility, guided by no evidence, and having no principle which could give stability to their opinions. The foundations which they might have laid for a just and complete system, were laid without effect; the era of experiment and observation, without which nothing real in physics is to be acquired, was yet many centuries distant.

How Artifical Pearls are Formed.—Sir Joseph Banks was the first naturalist who described the manner in which pearls are formed by certain testaceous animals in their shells; but his narrative was generally questioned. It was, however, fully corroborated in 1853, when the *Hermes* steamer, being at Ningpo, the great Chinese market for these pearls, the sailors obtained some live muscles, in which, on being opened, several pearls were found in the course of formation. It appears that the Chinese introduce pieces of wood or baked earth into the live muscle, which, being irritated, covers the substance with a pearly deposit. Little metal figures, generally of Buddha, are frequently introduced, and when thus coated with pearl are valued highly as charms.

Artificial pearls have been made from the scales of the bleak, and other fish, since the reign of Henry IV. of France; the beads are of glass, and are coated inside with the pearl essence; and the taking of the fish and the manufacture of the pearl and beads is said to employ one hundred thousand persons in France and Switzerland.

Pearls, from their consisting of carbonate of lime, are, of course, very soluble in acids. Hence may have originated the account of Cleopatra dissolving a pearl in vinegar, and drinking it to Mark Anthony's health at supper; which is now regarded as an historical fiction, to show the inventive talents of the voluptuous Queen in her allurements for Anthony, in whom she found a companion to her taste. It is, however, pretty certain that Cleopatra possessed a pearl, or pearls of great value.

Comparative Durability of Ancient and Modern Structures.—Mr. Ure observes, that "such was the care of the ancients to provide strong and durable materials for their public edifices, that but for the desolating hands of modern barbarians, in peace and in war, most of the temples and other public monuments of Greece and Rome would have remained perfect at the present day, uninjured by the elements during 2,000 years. The contrast in this respect of the works of modern architects, especially in Great Britain [much more true of the United States], is very humiliating to those who boast so loudly of social advancement; for there is scarcely a public building of recent date which will be in existence a thousand years hence." Many splendid structures are monuments (not endless) of folly in this respect. He observes also that the stone intended for a durable edifice ought to be tested as to its durability by immersion in a saturated solution of sulphate of soda, and exposure to the air for some days: the crystallization within the stone will cause the same disintegration that would result in time from frost.

Iron and Steel.—Steel is iron passed through a process called cementation, the object of which is to impregnate it with carbon. Carbon exists more abundantly in charcoal than any other fusible substance, and the smoke that goes up from a charcoal forge is carbon in a fluid state. Now, if you can manage to confine that smoke, and put a piece of iron into it for several days, and heat the iron at the same time, it will become steel. Heating the iron opens its pores, so that the smoke or carbon can enter into it.

The furnace for this purpose is a conical building of brick, in the middle of which are two troughs of brick or stone, which hold about four tons of iron. At the bottom is a large grate for the fire. A layer of charcoal is put at the bottom of the troughs, then a layer of bar iron, and so on alternately, until the troughs are full. They are then covered over with clay, to keep out the air, which, if admitted, would prevent the cementation. Fire is then communicated to the wood and coal with which the furnace is filled, and continued until the conversion of iron into steel is completed, which generally happens in about eight or ten days. This is known by the blisters on the bars, which the workmen occasionally draw out in order to determine. When the conversion is completed the fire is then let go out, and the bars remain in the furnace about eight days more to cool.

The bars of steel are then taken out, and either sold as blistered steel or drawn to a convenient size, when it is called tilted steel. German steel is made out of this blistered steel, by breaking the bars into short pieces and welding them together, drawing them down to a proper size for use.

Assaying Made Easy—Mineralogists at Fault.—The following is a fair specimen of how much falsity may be put into the mouth of an ignorant man who does not exercise sufficient caution on Montgomery street:—

Silicate of Copper.—Mr. Richard Ryland, the discoverer and Superintendent of the Planet Mine, a fine copper and silver lead, located on the banks of Williams' Fork, but twelve miles from its junction with the Colorado, and seventy-five miles above La Paz, exhibited to us yesterday a fine sample of pure silicate of copper, taken from a vein of that mineral several inches in width, in the Planet mine. This article resembles in appearance, to some extent, the blue vitriol of commerce, and is seventy per cent. pure copper. A knife-blade dipped in water and moved through the powder is instantly coated with pure copper, as if galvanized with that metal. This mineral is looked upon as an almost certain evidence of the value and large extent of an argentiferous copper mine. It has been recently found in some of the other mines in Arizona, and in some of the South American mines is found in sufficient quantities to pay largely in itself for working the mine. Mr. Ryland returns on the next steamer, to commence getting out ore for shipment.—*Alta.*

Here is an ore so readily reduced that water will dissolve copper from it! Begone, ye chemists, with your acids! And what is more, this water assay extracts 20 per cent. more metal from the silicate of copper than has been found in all the specimens examined by such men as Berthier, Scheerer and others, who have had access to silicates from all parts of the world.

The Vassar Female College, now building at Poughkeepsie, New York, will probably be one of the most extensive and complete institutions for female education extant. The building is of brick, with stone trimmings, three stories high, 500 feet in front including wings, 165 feet deep, accommodating 250 pupils, besides chapel, library, art gallery, recitation rooms. President's and professors' houses and teacher's rooms will cost $200,000, and will be completed before August. A library of 2,500 volumes is secured already, and a cabinet of minerals worth $8,000. A great equatorial telescope, aperture 12⅜ inches, length 17 feet, will be mounted and adjusted in August. The College will be open September 1st. One hundred and fifty applications were registered up to January 4th. This institution has been founded upon the munificent donation of $400,000, which was made by Mr. Matthew Vassar.

New Daily in Esmeralda.—We have received several numbers of the *Esmeralda Daily Union*, a new evening paper which has grown out of the Weekly *Star*. We trust it may increase and prosper.

Mechanical Department.

[Written for the Mining and Scientific Press.]

Economy in Generating Steam.

Messrs. Editors:—My reason for not yielding faith to a transparent humbug, seems to have exercised quite a magnetic attraction upon the irony of "An Enquirer." Perhaps he considers it a perfect economy of argument to make such a superficial mental display.

Did I think "An Enquirer" really desired answers to his queries, I would endeavor to gratify him at length. But what have those queries to do with the idea of an economy of fuel by increasing the surface of water exposure? Experimentally it has been ably demonstrated that no alteration in form of surface, by corrugation for instance, of the same thickness of plates and capacity in boilers, made any difference in the condition of heat from the same fire. Steel is not a better conductor than iron, but the allowance of a *diminished* quantity of material for the same pressure of steam gives it a decided advantage in the rapid conduction of heat to the water. A gain of nearly thirty per cent. in the steam generated by the same amount of fuel is something extraordinary, and either shows a greater power of combustion, when a fire is in contact with stubborn but rapidly transmitting particles of matter, or else very imperfect saving in the furnace beneath the iron boiler. Any individual, hopeful of reconciling the said experimental result with any fixed law of combustion or heat, will find a broad field for remuneratively adapting the same principle to many inventions and uses. Yet steel boilers are not of very recent construction, neither are the possible methods of economy suggested by "An Enquirer" unapplied in practice. I am not disposed to deny that a great saving can be accomplished through the proper management of fuel and steam aside from the boilers. Full forty per cent. of fuel escapes combustion as particles of carbon or gases. And not one sixth the theoretical power of the steam generated is exhibited in the ultimate force of the engine. The economizing of the heat of waste steam is a matter of common use. The losses, as well as the amount of air required in combustion, has been the subject of frequent experiments. There would seem to be a certain loss inseparable from all high concentrations of power: the most guarded force of an electro-magnetic machine is far less than the sum of power that the same electrical current of the battery will give under a more extended or free condition of action, as has been experimentally proved.

Sunshine certainly can be used by the concentration of the rays in the same manner that an immense number of heat impulses from fuel are gathered within an expansive volume of steam for a single disruptive effort. Otherwise its very omnipresence would counteract its direct application to sustained or impulsive throes of that power diurually manifested in the expansion of matter. Even moonlight would seem to possess a prodigious power, for, according to "An Enquirer's" averment, it gave him an idea. E. A. M.

Sacramento, March 22, 1864.

In hastily answering "An Enquirer's" communication, which I did immediately after perusing it, I neglected to notice his first proposition, that the excess of air entering a furnace and passing off in a rarified condition, carries away as much caloric as is contained in an equal weight of water converted into steam. Aside from the false basis of assumption, the statement appeared to be a startling one because the conclusions arrived at by certain scientific experimenters in England, acknowledge a loss of only three per cent. of heat through the chimney of a furnace. The amount seems rather small, but I presume that the experiments were conducted with a clear idea of the quantity consumed or rendered latent by the effort of expansion. The loss of combustible vapors is ascribed to their depressed temperature before they have fully traversed the flues, where the same exist in boilers. If the vapors are cooled much below their original heat assuredly their containing air will be similarly affected. When "An Enquirer" departed so far out of his way as to make a most pitiful exposure of his calibre it was to be expected that he was naturally capable of asserting an error for a fact. This was well shown in his assumption that the same weights of water and air require equal amounts of heat to raise them to the same temperature. The specific heat of water being 0.267 and that of air 1,000 the latter will only need one fourth the quantity of caloric to elevate it to an equal temperature with the former. For this reason the excess of air cannot carry off more than one fourth the amount of heat communicated, to the water in the boiler, even allowing no deduction for the heat absorbed by flues or distant portions of a boiler. E. A. M.

Sacramento, March 29, 1864.

Chlorine decolorises precious stones, but the diamond, ruby and sapphire resist its influences.

An Expensive Patent Suit.—A case involving a patent for making hat bodies was recently argued in the United States Supreme Court. The costs, thus far, have reached the sum of three hundred thousand dollars.

Eureka Metallurgical Works.—Farrand, the inventor of the Farraud Amalgamator, has removed his machine to Commercial street, between Front and Davis, where he is erecting an ore reduction mill, which will be known as the Eureka Metallurgical Works.

How to Drive Nails.—It is often difficult to drive common cut nails into hard timber boards, &c. They will never "fly out," however, if first rubbed with soap—common bar or any hard soap will answer. Screws treated in the same manner may also be driven with much greater ease. Soap is much better than oil, and at the same time more convenient.

A New Process of Amalgamation.—Henry W. Adams, of New York City, and W. S. Worthington of Newton, New York, have obtained a patent for a new process of amalgamation by which finely pulverized gold or silver ores are discharged, as it were in a shower, into an atmosphere of hot vapor of quicksilver. This contact or commingling of the pulverized ore and mercurial vapor is accomplished in a close chamber or passage way, in which it is claimed the two substances mingle together and impenetrate each other in such a manner as to form a more perfect amalgamation than has heretofore been obtained. The novelty of this process consists in the peculiar manner in which the two substances are brought into contact.

A Very Useful Apparatus is now on exhibition at the Patent Office, Washington, invented by Mr. F. N. Gisborne, the originator of the Atlantic cable, for communicating the signals required in working the engines of steamships, or in steering vessels of all sorts, by means of telegraphic wires. The communication is instantaneous, and the apparatus is so arranged as to make it trustworthy and certain. The officer on deck has only to move an index upon a dial under his hand to cause a corresponding movement to appear directly before the eyes of the pilot or engineer, whose attention is ensured by the ringing of a bell, as a part of the telegraphic movement. Meanwhile the action of the pilot or engineer, in response to the order is telegraphed back to the officer by an automatic motion, so that all possibilty of mistake is avoided. Mr. Gisborne's apparatus has been examined and approved by some of the highest nautical authorities in foreign countries and in our own, and has been actually used in several vessels. He has patents in the principal maratime countries.

Applying a Jet of Superheaten Steam to Reverberatory Furnaces.—A patent has been granted to M. Thierry, of Paris, for certain improvements in the construction of furnaces which render the combustion of the fuel more complete, and prevent the emission of smoke. This is effected by blowing in from the front of the fire-place against the bridge of the furnace one or more jets of superheated dried steam, freed of its hydrogen by intense heat, which feeds the fire with a gaseous compound of carbonic acid and oxygen, and thus so intensifies the combustion as to avoid the formation of smoke. Atmospheric air may also sometimes be blown in combination with the steam, which is best effected by placing an open pipe at the side of the steam jet, by which the air is drawn in, in combination with the steam. The superheated steam may be prepared either by means of a worm placed in the fire-place of the furnace, or by a distinct apparatus, to which it is conveyed by a pipe, and from which superheated apparatus it is delivered to the blowing pipe, which are all provided with the necessary cocks and exhaust tubes. The pipes can be made of any suitable substance; but when of wrought or cast-iron, they must be protected against the action of the fire by a coating of platinum, fire-clay, porcelain, or other highly refractory material. When applied to reverberatory or puddling furnaces, a combined blast of air and steam is employed in the following manner:—A large pipe of fire-clay, iron, or other suitable material is lodged in the masonry of the furnace, the outer end of which receives the blow-pipe from the superheating apparatus, together with another open pipe, capable, however, of being closed at its outer end. This latter pipe, when open, admits of the atmospheric air being drawn into the furnace with the draft occasioned by the jet of steam.

Eames' Water-Engine.—An engine for raising water *by* water, patented in 1862, has just been commended to public attention. It is simpler and more effective than the Ram, works by means of a piston not unlike that of a steam-engine, repels corrosion by its own action, and seems most unlikely to get out of order. Whoever desires to use a constant supply of water on a higher plane than that from which it is taken will do well to examine this engine. It is manufactured by Moses Eames & Co., Watertown, New York.

If the patentee of the above machine has a principle really valuable in practice, he will find it much to his interest to make it known in California, where such a machine would probably be in greater demand than in any other portion of the world.

Capital Expended on British Railways.—The capital expended in Great Britain, on railways to the present time has been upwards of $1,925,000,000. This amount has been devoted to the construction of 11,500 miles of railways in the British Islands, which are now open for traffic. The works executed in connection with these undertakings have been of extraordinary magnitude. Navigable rivers and even arms of the sea, have been crossed over; hills have been pierced by tunnels, and viaducts, embankments and cuttings made in all directions. All this has been accomplished within the life-time of a single generation of men, who have not only executed the work, but provided the means out of their private resources, without any assistance whatever from the funds of the State. In a word, the railway system of England has been the spontaneous out-growth of the native industry, energy, and enterprise of its people.

Appreciative.—The following notices from practical, active publishers, located in two of the most important mining districts in Nevada Territory, are highly appreciative:

Mining and Scientific Press.—This is one of our most valuable exchanges. It comes to us filled with the most valuable articles, original and selected, upon the subject of mining, and we scissorize it to an awful extent. Every person engaged in mining to any extent, should be a subscriber to the Press.—*Gold Hill News.*

Mining and Scientific Press.—Having missed a few numbers of this excellent paper, we feared it had ceased to exchange; but as it has again resumed its regularity, we are a little easier on the subject. The Mining Press is an almost indispensable companion to the miner and mill man, and when in our peregrinations we find it in the cabin of the one or the office of the other, we look for, and invariably find, a superior intelligence and more satisfactory working than where it is unknown, and its precepts ignored. We would dislike to be deprived of it, either as editors, miners, millers, or mechanics.—*Reese River Reveille.*

We exceedingly regret the apparent loose manner in which Uncle Sam has hitherto conducted his postal arrangements in the Territory. Our paper is mailed as regularly as the sun rises to all our subscribers and exchanges.

Patent Department.

STILL ANOTHER NEW AMALGAMATOR.—*A California Invention.*—Mr. M. Disney, of this city, has invented a new amalgamator, which may be described as follows:—The outside of the amalgamator presents a long cylindrical vessel, of any convenient size, through which passes a shaft, with arms, upon the extremities of which are affixed moveable shoes with convex faces, made to conform in shape to the inner surface of the cylinder. Upon the lower portion of the inner surface of the cylinder are affixed moveable dies. Both the shoes and dies are grooved transversely, to give the same effect upon the pulp as is obtained by the transverse grooves of the ordinary pans. The grinding surface is confined to the lower portion of the cylinder; the shaft, with every revolution, passing the faces of its mullers over those of the dies. Of course, by such a motion the pulp will be kept in a constant state of agitation, and every part of it will be brought in turn, between the grinding surfaces. The mullers are so arranged as to be held to their places by springs, and when the pulp is sufficiently ground, they can be completely raised from the dies by set screws, made to act simply as stirrers for amalgamating purposes. Mr. Disney has made application for letters patent through the MINING AND SCIENTIFIC PRESS PATENT AGENCY.

COATING THE SURFACE OF IRON WITH ALUMINIUM.—A patent has been granted in England, to Mr Wm. Clark, for a method of coating the surface of iron with metalic aluminium, either wholly or in part, which is effected in the following manner:—First, the surface of the iron to be coated is made perfectly clean, after which is taken 60 lbs. of any porcelain frit, properly mixed together, and sufficient pure water added to bring it to the consistency of ordinary cream, after which it is put into a common porcelain or frit mill and ground until a complete incorporation is produced. Next not less than 10 nor more than 15 parts by weight of this mixture is taken; and to it is added not less than 1 nor more than 10 parts of any of the so-called fat alum and potash clays, after having first calcined and pulverised the clay, and added sufficient water to make it of the same consistency as the mixture of frit feldspar and white lead. Next sufficient water is added to the whole compound to reduce it to such a consistency as will just permit it to adhere to and cover the whole surface of the iron either when the latter is dipped into the compound or when the compound is poured on it. When the iron has in this manner received a thin covering, and been thoroughly dried, it is placed in a reverberatory furnace or oven and baked until the surface presents a glazed appearance. When it is removed from the furnace the iron will be found to be covered with a hard vitreous coating adhesive, elastic, and tough enough to resist any bending of the iron at less than a right angle, and also indestructible by the ordinary acids or alkalies. This elasiticity and adhesiveness is presumed to be due to the fact that the compound in the baking process yields metallic aluminium, which lies between the iron and the outer glaze, firmly adhering to both. A frit may be formed of the following materials and proportions by weight:—Feldspar, 50 parts; Flint or silex, 30 parts; China clay or kaolin, 10 parts; sal soda, 25 parts; Spanish white, 20 parts; boracic acid, 10 parts. To coat iron with aluminium alone, take from 2 to 3 parts by weight of any of the fat alum or potash clays prepared by calcination and pulverization as before described, and add from 1 to 2 parts of boracic acid. When the whole is reduced to a consistency of cream, dip the iron into the paste, and dry it until all the moisture is expelled; then bake until the surface appears glossy and the paste is reduced (as it is termed) by the heat, when the iron is removed from the furnace, care being taken not to allow anything to come in contact with the paste in its soft state. As the iron shrinks by cooling, the slag will throw itself off by decrepitation, leaving the iron covered with metallic aluminium. Then, if for use under salt water, coat the surface with common coal oil or kerosene, which, besides increasing the resistance to corrosion, also repels the attacks of animalcules and molluscs, from its offensive odor.

BULLION FOR THE WEEK.—The amount of bullion shipped by Wells, Fargo & Co., for the week ending March 26, was 6,580, worth $181,040.99.

The Mining and Scientific Press Patent Agency.

OFFICE, 57, GOVERNMENT HOUSE, SAN FRANCISCO.

Information About Obtaining Patents.

The Patent Law Amendment Act, of March 4th 1861, and March 3d 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent? A positive answer to this question is only to be had by presenting a formal application for patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the MINING AND SCIENTIFIC PRESS. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Preliminary Examinations.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search, made at the U. S. Patent Office, Washington, through the medium of our associate in that city, to ascertain whether among all the patents and models there stored, any invention can be found which is similar in character to that of the applicant. On the completion of this special search we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollars. This search, though it involves the expense just named, will usually prove satisfactory. If the same device has been before patented, the time and expense of constructing models, preparing documents, etc., will in most cases be saved; if the invention has been in part patented, the applicant will be enabled to modify his claims and expectations accordingly. Many other obvious advantages attending the Preliminary Examination; although the strictest search does not always enable the applicant to know positively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publication; or some other person has been previously rejected on an analagous device; or some other invention for a similar purpose, but partially resembles the applicant's in its construction; or the Government makes an unjust or uncommon decision. Against none of these contingencies does the Preliminary Examination provide; it will, however, generally inform the applicant whether an improvement similar to his and used for the same purpose has ever been patented or not in this country.

Persons desiring the Preliminary examination are requested to remit the fee ($10), and furnish us with a sketch and description of the invention.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian, Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of governments that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues.—If the application is rejected we cause a thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have access to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client. For this service we make no charge. If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by confessing the case. For this precaution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The laws requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimensions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: DEWEY & Co., Mining and Scientific Press, rooms 56 and 57, Government House, corner of Sansome and Washington Streets, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail.—The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due, and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued, the applicant will be notified to remit the last installment of the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Return of Models.

Under the new law, if the applicants case has been rejected he is entitled to withdraw his model from the Patent Office.

This law applies to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expense.

Application for Patents, Designs, Trade-Marks, Labells, etc.

Under the new law patents may be taken out for any new form of any article, also for tools, patterns, castings, machine-frames, stove-plates, borders, fringes, all new designs for printing, weaving or stamping upon silks, calicoes, carpets, oil-cloth, prints, paper-hangings, and other articles. Trade-marks, labels, envelopes, boxes and bottles for goods, may also be patented; likewise all works of art, including prints, paintings, busts, statues, bas-relief, or compositions in alto, or basso relievo, new dies, impressions, ornaments to be placed upon any article of manufacture, architectural work, etc.

Our facilities for the prompt preparation and securing of patents are of the most extensive character and our charges are very moderate.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the tariff of fees established by law:

On every application for a design, for 3 years and six months...	$10
On every application for a design, for seven years...	15
On every application for a design, for fourteen years...	30
On every caveat...	10
On every application for a patent...	15
On issuing each original patent...	20
On filing a disclaimer...	10
On every application for a re-issue...	30
On every additional patent granted on a re-issue...	30
On every application for an extension...	50
On the grant of every extension...	50
On appeal to the Commissioner from Examiners-in-chief...	20
On every appeal to the Judges of Circuit Court, D. C...	25

Infringements.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunction from the Court, to an arrest of or prohibition from the employment of his machinery, shop, works, factory and men in production of the article.

In addition to injunction the infringer is liable to be mulcted in treble the amount of damages awarded by the jury. The maker, the workman, the seller, and the purchaser, if a user, are all liable either collectively or individually.

Having access to all the patents, models, public records, drawings and other documents pertaining to the Patent Office, we are prepared to make examinations and give opinions upon all infringement questions, advise as to the scope and ground covered by patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Appeals.

In rejected and other cases, the new law provides for an appeal from the Examiner-in-chief to the Commissioner in person, on the payment of a fee of twenty dollars. A further appeal may be taken from the decision of the Commissioner to the U. S. Court, of the District of Columbia. These appeals are heard by any of the Judges before whom the applicant elects to bring the case. No Jury. All the papers, models, etc., are sent by the Commissioner to the Judge, who then reviews the case, and either sustains or reverses the Commissioner's decision.

The party taking the appeal pays an additional fee of twenty-five dollars. The Judge appoints a day of hearing. The applicant can appear in person or by counsel to state his case and file a written argument. Five days are allowed the opponent to put in an answer, and a similar period to the appelant for a closing reply.

Many important cases are brought before the Judges on appeal and the decisions of the Commissioner are not unfrequently reversed.

We have had successful experience in conducting these appeals, and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, Government House, corner Sansome and Washington streets, San Francisco.

Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

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For Sending East, no more valuable or appropriate publication can be selected than the MINING AND SCIENTIFIC PRESS. For sale by the principal newsagents.

AMERICAN AND FOREIGN PATENTS.—Letters Patent for Inventors can be secured in the United States and foreign countries through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past year.

FAVORABLE TO INVENTORS.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the MINING AND SCIENTIFIC PRESS, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

Will be Discontinued.—After this date subscriptions not paid for in advance will be discontinued. As soon as possible bills will be presented for all arrearages. Parties who receive a paper from the office of delivery cannot evade the LAW requiring payment for the same. We shall in future keep no continued accounts with subscribers, and the subscriptions of ALL friends and patrons will be treated alike.

San Francisco:
Saturday Morning, April 2, 1864.

THE COLORADO MINES.

By the steamer Senator, which arrived at this port on Monday last, we have the Los Angeles *News* to the 25th, containing important and interesting intelligence from the Colorado mines. We are also indebted to MR. FRANK S. ALLING, who came up on the Senator, for much valuable information with regard to the mines of El Dorado Cañon, a well-known locality on the Colorado river. It appears that the miners all along the Colorado have learned of the movements in this city to secure a full and cheap navigation on that river, and have taken new courage thereat. As a consequence, mining operations all through that section are rapidly improving, and the miners are in high glee, pushing on the work of developing their claims.

Mr. Alling has submitted to our inspection a large number of specimens of silver sulphurets, which are fully equal, to all appearances, to the best we have ever met with from Washoe. Among the lot of specimens exhibited was a very fine one from Mr. Lewis, the Superintendent of the Techattecup mine, which is to be forwarded to Washington. Specimens were also exhibited from the Queen City, in the same district, which could scarcely be distinguished from the former. Mr. Alling also showed us specimens from the Brandywine, Lady Heart, Buckeye and Great Republic; assaying respectively $85, $180, $70 and $30, from the top rock. The assays were made, by a working process, by Mr. Varney of this city. Arrangements will soon be completed for a vigorous prosecution of work upon these mines.

The Techattecup Company have struck their lode in a tunnel 256 feet long, and at a depth of 130 feet from the surface. The lode is from seven to nine feet thick. They have a large pile of very rich ore at the mouth of their tunnel. The Queen City ran their tunnel 100 feet when they struck their lode, and went down with an incline fifty feet. They have now about 100 tons of ore out, and ready for crushing. Arrangements are being made to put up a first-class mill, with the necessary machinery for working silver ores, near the mouth of the Colorado.

The only mill now in this district is the Colorado Mill, put up for custom work, in the cañon on the west bank of the Colorado river, where a town has been laid out; also two towns further up the cañon, where several substantial stone buildings have already been erected. Mill sites and town lots have been taken up along the river for four miles above and below the mouth of the cañon. This mill has recently been put in operation, and is the pioneer and still the only mill in Arizona. It has been crushing rock of late for the New Mexican Company, and has now commenced crushing for the Forest City Company, an extension of the New Mexican. The ores obtained from these two veins chiefly yield gold. Silver predominates in all the other mines, and in some almost exclusively.

The Independence Company are taking out very fine rock, and piling it up for working as soon as a mill can be made available. The Logan Company, in the Colorado lode, have an incline of 160 feet—a very fine piece of work. They are now coming upon ore of a very promising appearance. The Adelaide have struck fine indications at a depth of 53 feet. The Tornado are pushing ahead with their work night and day. The Waitt Consolidated Company had gone down 65 feet, and suspended work; but have now resumed again, in consequence of the improved condition of things growing out of the establishment of a reliable steam line on the river. There are now no idlers in the cañon, and whisky and cards are almost unknown.

DISCOVERY OF SALT.

Extensive discoveries of salt have been made during the past year, within five or eight miles of the bank of the river and about sixty miles north of the mines—the river being navigable between the two points for steamers of a light draught. This salt is found in veins, precisely similar to the veins of mineral, dipping at an angle of 45 degrees, and varying in width from eighteen inches to three feet. They are found throughout a large extent of country. The salt has been found, by tests in this city, to be remarkably free from impurities. This salt will eventually prove of great value in the working of the silver mines of this region. The discovery of coal has also been reported in the same vicinity.

THE LOWER COLORADO MINES.

Down the river from El Dorado Cañon, the first mining district yet opened is the San Francisco, in which is located the celebrated "Moss Lead," about 60 miles from El Dorado Cañon; then comes the Sacramento, Erataba, Wauba Yuma (a little off the river, to the East); next, the William's Fork, the La Paz, etc. The river flows throughout its entire length through a continuous mining region. The stretch of 60 miles between El Dorado Cañon and San Francisco District has not yet been opened up, but will doubtless prove equally as rich as any other section. The mines below San Francisco District are chiefly valuable for copper; above that point silver and gold predominate. The head-waters of this river, it will be recollected, are found in the celebrated Pike's Peak mining region.

THE COLORADO RIVER.

This river, which is now attracting a large share of attention, is destined at an early day to become one of the most important rivers on the Pacific coast. Its topography and general characteristics are certainly most remarkable. Taking its rise, as we have already said, in the Pike's Peak mining region, it constitutes simply a mountain stream until it reaches the vicinity of Black Cañon, about 80 miles above El Dorado Cañon. From this point to its mouth, a distance of a little over 600 miles, this stream is navigable for river steamers of light draught; and for 500 miles of this distance the entire country is rich in minerals—gold, silver and copper—down to its very banks, and to an unknown and unexplored distance into the interior. All kinds of miners' supplies will soon be delivered along this river, *via* the Gulf of California, for a price not greater than that now charged for the delivery of goods at Nevada City or Placerville. Freight has already been delivered at La Paz for three cents per pound.

A more rich or promising field for the investment of capital is seldom presented than here offered. The attention of capitalists is already being attracted thither. Eastern capitalists, especially, are looking with particular favor to these mines as among the most reliable and promising on the Pacific coast.

MR. MELVILLE ATTWOOD, Mining Engineer, has just returned from a visit to the Kern River Gold Mines, and reports favorably of them. He left the works of the "Big Blue" Lead and Sumner Companies, at six o'clock on Sunday morning last, and arrived in San Francisco at half past six on Wednesday evening. This, we believe, is the shortest time yet made over this route; but when the stages properly connect—as they soon will do—the trip may be made in three days, and will be the most direct route for those going to the Owen's River and State Range districts. On the Western Summit there was about six inches of snow. The late rains have considerably improved the appearance of the country; but through the north side of the hills, in the San Jose Valley, were beautifully green, the south side were still looking very dry and barren. Mr. Attwood confirms the reported discovery of rich placer mines about twenty-five miles northeast of Visalia, on Kings River. He met a large number of wagons on their way to Owen's River from Tulare county. A large emigration is constantly moving in that direction.

PRESENTATION.—Mr. Samuel North, late foreman of the machine shop of the Pacific Iron Works, was surprised at the close of work, on Tuesday evening last, by a sudden gathering of the men about his person. Their purpose was soon made known by one of the workmen, Mr. J. C. Harrington, stepping forward and in a neat and appropriate speech, in the name of his fellow workmen, presenting to their late foreman a fine Gold Lever Watch, as a testimonial of their appreciation and respect. Though taken entirely by surprise Mr. North responded in a very happy manner, and was as happily followed by Mr. Austin, one of the proprietors, who was also present. Mr. North leaves on the steamer to-day on a visit to the "Old folks at Home."

PRATER'S CONCENTRATOR.—This Concentrator, which is now in operation at Wheeler & Thayer's Reduction Works, North Beach, is still attracting considerable attention. It continues to perform its work in a most satisfactory manner. It is working on waste sands, from which it is taking out an average of 3½ lbs of quicksilver for each ton of sand worked, in addition to the amalgam and sulphurets which are saved. In our issue of last week we stated that this machine saved ten tons of quicksilver from four tons of sand. It should have read, as we wrote, ten pounds of quicksilver from five tons of sand.

DEATH OF A MECHANIC.—Mr. C. M. Holbrook, a master mechanic, died in this city on Tuesday last. Mr. Holbrook was among the pioneers to this State, and from the early infancy of San Francisco he has been intimately connected with its growth and prosperity. He designed and built Odd Fellow's Hall, and many of the most substantial mercantile piles in the lower part of the city were erected under his supervision. He was admitted, on all hands, to stand in the very front rank of our building mechanics. His funeral was largely attended.

NEW SUPERINTENDENT.—Mr. Charles Bonner has been elected Superintendent of the Gould and Curry mine. This is considered a most excellent appointment; Mr. Bonner, though a young man, has had large experience in mining matters. If we mistake not he was for some years in the field with Professor Logan, the noted Canadian Geologist. The reported appointment of Mr. Strong to the Presidency of this Company is premature.

MINING SHARE MARKET.

The Mining share Market, during the past week has been unusually dull and quiet. Very little business has been done except in a few leading, speculative stocks. The sales of the week show a large falling off, yet they foot up at $1,159,171.58.

Ophir closed last week at 1,680; opened on Monday at 1,670. On Thursday it dropped to 1,540, at the opening of the afternoon board, but closed at 1560; since which it has been quiet.

Gauld & Curry still remains quiet. We note two transactians, only—one foot at $4,550 on Mouday, and one at 4,500 on Thursday.

Savage met with a seller at $2,500 on Monday, but subsequently found buyers at from 2,600@2,615.

Central, No. 2 has been heard from at $900.

Uncle Sam sold yesterday at from $850@900, buyer 30 days.

Crown Point has found buyers at $900.

Yellow Jacket is more in favor; has met with a single sale at $1,100; holders generally firm at $1,200.

Chollar has declined to $306. This decline has been occasioned by the injunction of the Potosi having been made perpetual against the Chollar.

Lady Bryan still continues to be largely dealt in; 7,436 share have changed hands since our last issue, at fluctuating rates—ranging from $43 to 70, closing at 52. It closed with an upward tendency.

Nevada (J. G.) has declined from its last week's figures. Opening at $190@195, it closed yesterday at 142.

North American has been largely enquired for and has formed an important feature of the week. This stock has advanced from $146 to 177 at last evening's board. This advance is attributable to the reported probability of a favorable compromise with the Uncle Sam company.

North Potosi has been but little enquired after. Its quietness may be attributed to the uncertainty attendant upon the issue of its suit with the Savage, which will be called up on Monday.

Burning Moscow has been less enquired after than last week; 323 shares only have changed hands the past week. The sales yesterday ranged from $96@108.

Buckeye is less active, at slightly declining rates.

We quote Pride of the West at $83; Chas. Cuny at $7½; Sierra Nevada at $74; Adriatic at $12; Baltic at $150@160; Empress at $30; Gold Cañon at $25; Baltimore American at $40; Melones at $50; Michigan at $30; Burnside at $11; Caledonia Tunnel at $21; Blue Ledge at $22; Crockett at $5½; Paris at $5; Desert at $10; Central America at $5; Nightingale at $17; Santa Rosa at $5, Palmyra at $3.

Daney is inactive at $120, and Bullion at $71. Overman has been heard from at $215, and Sacramento & Meredith at $5.0

Kohler Brothers may be quoted at $13; Beaver at $21; Herman inactive at $40@42; Echo at $25; Rogers, F. D., has been heard from at $38, buyer 30 days; Keystone, V. D, at $35; Crown Point Ravine at $5½; Uncle Sam, F. D., at $5, and Table Mountain Copper at $5; San Carlos at $10.

Real Del Monte has ceased to attract much attention. The sales of the week have ranged from $37@48, closing at $38.

Wide West is quiet at $20; Utah at $18.

We quote Coso at $4; Fanny Rayne, O. R., at $25; De Soto at $40; Ben Franklin at $4; Gray Eagle $7½; North Star, R. R., $25; Rosario, Mexico at $15.

New Type for Reese River.—Mr. Fairchild was in the city this week purchasing an extensive assortment of material for the purpose of bringing the *Reveille* out in daily form. We are pleased to note this evidence of prosperity on the part of the town of Austin and its enterprising publishers.

WASHOE STOCK MARKET.

SALES AT THE VIRGINIA AND GOLD HILL STOCK BOARDS

Bullion, G. H., 4 at $80. Jewett & Sheppard, 225 at 7½@10½, b 30. Keystone, G. H., 20 at 25. Moss, Va., 10 at 20. United American, 40 at 5; 25 at 10½. Kentucky. 40 at 4. North American, 20 at 137; 27 at 140; 20 at 137½; 8 at 102½. Winnegardner, 40 at 2¼. Harold & Argo, 120 at 5@6¼. Pony Express, 55 at 4½@6¼, b 30. Silver Vale, 80 at 3½; 30 nt 3. Combined Effort, 15 nt 8. Sutro, 10 at 3½. Rock Island, 20 at 14; 10 at 13½. Irving, 10 at 9½; 10 at 8; 10 at 9¼; 5 at 7. Tontine, 50 at 15; 10 at 11. Wm. Penn, 10 at 8½. Virginia Hill, 10 at 1½. Russian, 20 at 4. Sierra, 30 at 4, Lady Bryan No. 2, 20 at 2¼; 10 at 2. Eugene, 12 at 6¼. South Overmaa, 10 at 19; 50 at 20. Arizoaa, 20 at 12; 20 at 14. Live Yankee, 7 at 3. Palo Alto, 20 at 2½. American Basin, 20 at 2½. King Solomon, 10 at 1. Champion, 20 at 1⅝. Utah, 5 at 110. Crescent, 20 at 5; 20 at 4. Hartford, 40 at 137. New Oregon, 55 at 11@14½. Fraukel. 10 nt 4. Kossuth, D. G., 87 at 2½@3½. Boise and Reynolds, 10 at 2. Pioneer, D. G., 20 at 3. Bertrand, 20 at 2. Pontiac, 50 at 50c. Palmyra Cons., 55 at 50c@1¾. Granada, 415 at 75@80. Eastern Crown Point, 25 at 4, s 30. Jenny Lind, 10 at 2. Northern Light, 5 at 4. Whitman, 5 at 60, b 5. Astor, 25 at 7. Leon, 5 at 11; 10 at 13. Lady Bryan, 5 at 47½, s 30; 10 at 55, b 20. Challenge, 20 at 5. Randolph, 20 at 7. Grass Valley and Napoleon, 2 at 1¾. Osceola, 10 at 10. San Bernard, 10 at 50c. Washiagton, 10 at 75c.

Clinton & Hubbs, $48; Belvidere 3; Harrold 4; Mary Aan 60; Miantonomah 8; Overman 350; Oneoto 10; Alpha 500; Schiller 9½; South Overman 30; De Witt Clinton 2; Indepeadent 50; Sophia Mill and Mining Company 100; Adriatic 5½; IXL 2½; Justis 200; Burning Mo-eow 95; Birdsall 4; Irving 8; Keaosha 6; Moss 20; Osceola 9; Ophir 1,630; Pride of Washoe 6 50; Pioneer, Commereial 5; Saata Rita 7; Wm. Penn 8 50; Virginia Hill 1 50; Argo 4; Bullion 31; Beaver 30; Caledonia Tunnel 19; Central American 2; Empress 22; Frankel 3 50; Golden Swan 11; Nevada, 217; Jewett & Sheppard 6 50; North American 130; New Oregon 11; Napoleon 6; Russian 4; Silver Vale 4; Stevenson Kehoe 4; Tontine 15; Yolo 12; Kossuth 3; San Francisco 1; Sierra 4; Deep Red 7; Palo Alto 2 25; Pony Express 3 50; North Ophir 3; Live Yankee 2; Lady Bryaa 68; Lady Bryan No 2 2 25; Weal Chanee 4 50; Yankee Blade 1 50; Palmyra Consolidated 50c; Rey del Monte 4; Arizone 2; Bajazet & Golden Era 61; El Dorado 27 50; Utah 85; Arizona 12; Baltimore Americaa 35; Belle Vernon 2 50; Branch Mint 11; Combined effort 8; Globe 14 50; Knickerboeker 20; Lafayette 8; Louisville 2 50; New Oregon 11 25; Northera Light 3 25; Rock Island 14; Princess 6 75; Leon (G. H.) 8 50; Sutro 2 50; Shamrock, 3 50; Occidental Consolidated 1; Nightingale 2 50; Champion 1 50; Uncle Sam 5; Allen 28; Consolidated Brotherhood 2 25; Milton 25; Ponce de Leon 2; Consolidated Company 40; Crown Point Ravine 6; Gentry 3; Lord Byron 6; Uncle Sam 4; North Ophir 6; Live Yankee 3.

A Prophecy.—The Humboldt *Register* thus prophecies: "Taking the past as a guide for the future, we can safely predict that in ten years from this time Nevada Territory will have a population of five millions! Her alkali plains will be threaded with railroads; she will be connected by rail with the Pacific and Atlantic oceans. Mines rich as the Ophir will be successfully worked in allparts of the Territory; nor will we then be circumscribed to the business of mining for gold and silver. Our mountains of almost pure copper will be of value; our abundance of the best iron ore in the world will be brought into use, and our acres of the purest salt abundant for the use of the whole world, lying ready to be sacked, will then find a market."

The Howell's Crushing Machine, elsewhere noticed in connection with the Golden State Foundry, was manufactured at the Pacific Iron Works.

Business Directory of San Francisco.—Messrs. Stillwell & Co are said to be meeting with excellent success with their important undertaking, and the public will soon be furnished with a conveniently arranged book, containing the advertising cards of our leading firms, with a historical sketch of each upon the opposite pages.

Black Sheep.—James H. Shepard, having received subscriptions for this paper in May last, and failed to account to us for the money received, we are under the necessity of announcing him as a "defaulter." Parties holding his receipt, prior to this notice, for the Press will be supplied with the subscription due by addressing us.

The Shafter Mining Advertising Bill was amended in the Assembly and returned to the Senate, which body concurred in the amendments, and that is all the information furnished the dear public upon the subject by the reports of the daily press. They term it an "important bill," but fail to inform the interested stockholders what its amendments and peculiar provisions are. The bill is certainly having a very silent and shady passage. An act permitting the sale of mining shares within ten days from the time the shareholder's name is first published as delinquent, should certainly receive a grave and careful consideration from our Chief Executive, who has nobly and faithfully discharged his duty in the examination of all bills of *special* and *unnecessary* legislation.

Capt. Kidd's New Boat, designed for an Independent Opposition Line between this city and Sacramento, is fast approaching completion. The ways are all prepared, and she will be launched at the next spring-tide—probably towards the close of next week. She will be ready to run very soon thereafter. This is a fine modeled craft, and for staunchness and neatness of finish will far surpass the ill-fated Nevada.

The State Geological Survey.—The Senate has passed a bill which continues the Geological Survey for the ensuing year.

Send them East.—Do you buy papers to send to your friends at the East? If so, please reflect that no other paper published in the State can be more acceptable to the majority of your friends than the Mining and Scientific Press. It contains a very large amount of valuable reading, nearly all relating to California and her leading interests—just the kind of general information you would give your friends if you should write. It can be had at the office of publication, neatly done up in wrappers, for mailing, at one bit per copy.

Savage Mining Company, Zinc House District, Nevada County, Cal.—San Francisco, March 26th, 1864.—A Stockholders meeting of the Savage Mining Company will be held at the Office of the Company, 615 Clay street, on Monday May 2nd, 1864, at 9 o'clock A. M. By order of the Board of Trustees.
14-4t M. G. ELMORE, Sec'y. *pro tem.*

Wide West Copper Mining Company, Office 615 Clay street, San Francisco, March 26th, 1864.—Notice is hereby given that an assessment, No. 3, of thirty cents per share was this day levied on each and every share of the Capital Stock of the Wide West Copper Mining Company, payable in U. S. Gold Coin, to the Secretary at the Office of the Company or to J. M. Pike, Superintendent Copperopolis. By order of the Board of Trustees.
14-4t M. G. ELMORE, Sec'y.

Enterprise Copper Mining Company, Placer County, Cal.—Office 615 Clay street, San Francisco.—At a meeting of the Board of Trustees of this Company, held March 12th, 1864, an assessment (No. 12) of 50 cents per share was levied upon each and every share of the capital stock of said Company, payable immediately, in gold coin, to Thos. Levy, Treasurer, at Lincoln, Placer county, or to the Secretary, at the office of the Company. The Board also gives notice that whatever assessments have been paid in on Numbers 7 to 11 inclusive will be credited on Assessment No. 12. By order of the Board of Trustees. M. G. ELMORE, Sec'y.
San Francisco, March 12th, 1864. 14-tf

Roderick Gold and Silver Mining Company, Reese River Mining District, N. T.—Notice is hereby given, that at a meeting of the Board of Trustees of the above named Company, held this day (March 31st, 1864,) at the office of the Company, an Assessment of two dollars ($2) per share was levied on each and every share of the capital stock of said Company, payable immediately, in gold coin, at the office of the Secretary, No. 224 Montgomery street, San Francisco, or to Julius Siehel, Corresponding Secretary, at Austin, N. T. WM. T. ATWOOD, Secretary.
San Francisco, March 31, 1864. 14-4t

Index Mining Company (Location, Copper Canon District, Copperopolis, Cal.)—Office, 415 Montgomery street, San Francisco, March 30, 1864.—Notice is hereby given, that at a meeting of the Board of Trustees of the Index Mining Company, held March 23, 1864, an Assessment of fifty cents per share was levied upon the capital stock of the Company, and made due and payable immediately, in U. S. coin, to the Secretary, at the office of the Company. Certificates of stock are now ready for delivery on payment of this assessment.

☞ The first annual meeting of the Stockholders of the Index Mining Company will be held at the office of the Company on SATURDAY EVENING, APRIL 30, 1864, at 8 o'clock, for the adoption of by-laws, election of Trustees for the ensuing year, etc. By order of the Board of Trustees. [14-5t] RICHARD C. ALDEN, Sec'y.

Puritan Gold and Silver Mining Company, Devil's Gate District, N. T.—Notice is hereby given, that the Trustees of the Puritan Gold and Silver Mining Company have this day levied an Assessment (No. 2) of fifty cents on each and every share of the capital stock of said Company, payable immediately, in gold coin, to the Secretary; at the office, No. 620 Washington street, San Francisco, or to H. W. Arnold, at Silver City, N. T.
March 31st, 1864. (14-4t) H. B. CONGDON, Secretary.

A New Blasting Powder.

The Washington correspondent of the Sacramento *Union* gives the followiug interesting particulars with regard to a new blasting powder, the invention of which has already been noticed in this paper:

This morning a party of Californians were invited to go out to a quarry near this city to witness the experiments to test the value of a new kind of powder for blasting and otber purposes, invented by a Dr. Field of Wilmington, Delaware. The peculiarity of the new article consists in its being made up in two separate compounds or ingredients, which are mixed upon the spot just before using. The color of these ingredients is different, one being black and the other white; they are non-combustible when separate, it being impossible to unite or detonate them; but equal parts of each being mechanically mixed, a new compound is formed, wbich is highly explosive, being in fact like any other powder, except tbat its specific gravity is greater, and its explosiveness, or *strength*, is much greater. A bole was drilled in the face of the quarry to a depth of four feet, and about eighteen inches of the powder being put in and tamped, it was fired in the usual way, and the explosion which followed was, all the workmen on the spot said, almost twice as effective as tbe ordinary powder would have been under tbe same circumstances. A test witb some of the same material in a rifle also showed great strength as well as cleanliness, the lock or barrel showing no fouling whatever, after repeated discharges. The inventor claims that this gunpowder can be mannfactured for sale at ten, twelve, sixteen or eighteen cents per pound, tbe price of the article varying according to its strength. He also says tbat the ingredients being obtained, the powder can be ground up therefrom in an ordinary handmill, in a quarry or on tbe field, no expensive machinery being needed. Tbis simplicity of the means of its manufacture is the cause of its great cheapness, Dupont's machinery costing millions, and his powder now sells for twenty-four cents per pound. The non-explosive character of the component parts of the powder, when separated, being complete, it would be a valuable article for California consumption, as it could be carried thither in passenger vessels, or in such craft as now oblige an extra charge to be made on account of the extra hazardous character of the cargo. Now, as the gases generated are less noxions than the ordinary gunpowder, and dampening of the separate ingredients does not injure them if they are dry when mixed, it would appear that the new article will be invaluable for our mines and for general blasting purposes in California. The various experiments tbis morning were certainly highly satisfactory, and if the explosive mixture is all that it is claimed to be, there will certainly be a revolution in the gunpowder trade very shortly, and in this matter our California people are more interested than the citizens of any other locality.

China *vs.* Horse Power.—A correspondent of the *Morning Call*, over the signature of "Inventor," made a suggestion, a few days since, that man-power might be more economically employed in driving our city railroad cars than horses. "Inventor" says:—

By a simple improvement in the cars the horses can be done away with, and China, or man-power, substituted. One Chinaman would be equal to two horses, and the cost of feeding and shoeing him would be nothing in comparison to tbe horses; and, besides, he could groom himself. The car can be so constructed that he will tread with his feet on board—an apparatus that will give the car a greater speed than possibly can be done by horse-power.

Tbat is, one Cbinaman, by treading with his feet upon "an apparatus" (it must of course be an apparatus which will require a similar movement of the body and a like action of the muscles, to that required in ascending a ladder), will be able to raise 66,000 lbs. one foot high in one minute (for that is equivalent to a two-horse power); or, with a load on his back, which, added to his own weight, shall be equal to 200 lbs., he must be able to mount a ladder at the rate of 5½ feet per second, or 19,800 feet per hour. In order to carry out tbe idea of "Inventor," a Chinaman, or some other man, weighing 200 lbs., or carrying a load to bring him up to 200 lbs., must, in ten working hours, be able to thus mount a ladder 37½ miles high! We fully agree with "Inventor" that "we are living in a fast age;" but we must confess at being a little "startled" at the possibility of such an achievement as he has supposed.

Mining Notices.

McComb Gold & Silver Mining Company, Reese River District, Lander County, Nevada Territory, Office No. 1 & 2 Government House, corner of Washington & Sansome Sts., San Francisco.—Notice is hereby given that in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the McComb G. & S. M. Co., there will be sold at public auction at the Office of the Company, at 11 o'clock A. M. on Saturday, the 30th day of April 1864, so many delinquent shares of the Capital Stock of the McComb G. & S. M. Co., standing in the names of the following persons as will be necessary for the payment of assessment No. 1 of 50 cents per share, levied Nov. 28, 1863, together with costs of advertisement and expenses of sale, unless said assessment and charges are previously paid to the Secretary at the Office of the Company.

NAMES.	SHARES.	ASS'T.	AMOUNT.
Askins, T. J.	65	$32.50	$32.50
Eaton, Ira A.	45	22.50	22.50
McComb, Robt.	90	45.00	45.00
Moloney, Jos. E.	62	31.00	31.00
Marshall, Chas.	49½	24.75	24.75
Rowe, John	4½	2.25	2.25

No. 1 & 2 Gov't House. HENRY S. BROOKS, Sec'y.
San Francisco, March 25th, 1864. 13-5t

Plutus Gold & Silver Mining Company, Reese River Mining District, Lander county, N. T., office 1 and 2 Government House, northwest corner of Sansome and Washington streets, San Francisco.—Notice is hereby given, that, in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the Plutus Gold and Silver Mining Company, there will be sold at Public Auction, at the office of the Company, at eleven o'clock A. M., of SATURDAY, April 30, 1864, so many delinquent shares of the capital stock of the Plutus Gold and Silver Mining Company, standing in the name of the following persons, as will be necessary for the payment of Assessment No. 1, for thirty cents (30c) per share, levied August 21st, 1863; also Assessment No. 2, for seventy-five cents (75c) per share, levied November 23d, 1863; and Assessment No. 3, for fifty cents (50c) per share, levied January 26th, 1864, together with costs of advertising and expenses of sale, unless said assessments and charges are previously paid to the Secretary, at the office of the Company:

Names.	No. of Shares.	Asst. No. 1—30c	Asst. No. 2—75c.	Asst No. 3—50c.	Total am't
Atherton, A. P.	50	$15 00	$37 50	$25 00	$77 50
Allison, John	20			10 00	10 00
Bateman, I. C.	85		63 75	42 50	106 25
Boley, A. G.	10			5 00	5 00
Cleveland, Frank	150		112 50	75 00	187 50
Craig, R. R.	20			10 00	10 00
Harding, E. R.	50	15 00	37 50	25 00	77 50
Irvine, John	85	25 50	63 75	42 50	131 75
McComb, Wm.	85			42 50	42 50
Thompson, D. H.	150		71 25	67 50	138 75
Turner, Geo. R.	7	2 10	5 25	3 50	10 85
Wills, John M.	20			10 00	10 00
Woods, Phœbe A.	25			12 50	12 50

S. C. GALLAHER, Secretary.
No. 1 and 2 Government House, San Francisco.
San Francisco, March 25th, 1864. 13-5t

Monarch Gold and Silver Mining Company, Big Creek Mining District, Lander county, N. T., Office No. 1 and 2 Government House, corner Washington and Sansome streets, San Francisco.—Notice is hereby given, that, in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the Monarch Gold and Silver Mining Company, there will be sold at Public Auction, at the office of the Company, at 11 o'clock A. M., on SATURDAY, the 30th day of April, 1864, so many delinquent shares of the capital stock of the Monarch Gold and Silver Mining Company, standing in the names of the following persons, as will be necessary for the payment of Assessment No. 1, levied August 21st, 1863, of twenty cents per share, and Assessment No. 2, levied January 21st, 1864, of fifty cents per share, together with costs of advertising and expenses of sale, unless said assessments and charges are previously paid to the Secretary, at the office of the Company:

Names.	No. of Shares.	Asst. No. 1—20c.	Asst. No. 2—50c
Brown, Geo. W.	65		$32 50
Brown, R.	85		42 50
Davis, C.	85		42 50
Fisher, S. G.	60		30 00
Grotjan, G. W.	4		2 00
Haddock, R. W.	85		42 50
Irvine, John	50		25 00
Kasson, C. S.	4		2 00
Nahl, H. W. A.	4		2 00
Parsons, S. H.	50		25 00
Phelps, T. G.	4		2 00
Palmer, E. C.	4		2 00
Thompson, J. L.	85	$17 00	42 50
Turner, Geo. R.	8		4 00
Uhrig, C. A.	8		4 00

S. C GALLAHER, Secretary,
Office Nos. 1 and 2 Government House.
San Francisco, March 25, 1864. 13v8-5t

Gold Point Gold and Silver Mining Company, Big Creek Mining District, Lander county, Nevada Territory, Office Nos. 1 and 2 Government House, corner Washington and Sansome streets, San Francisco.—Notice is hereby given, that, in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the Gold Point Gold and Silver Mining Company, there will be sold at Public Auction, at the office of the Company, at 11 o'clock A. M., on SATURDAY, the 30th day of April, 1864, so many delinquent shares of the capital stock of the Gold Point Gold and Silver Mining Company, standing in the names of the following persons, as will be necessary for the payment of Assessment No. 1, for twenty cents per share, levied August 21st, 1863, and Assessment No. 2, for thirty cents per share, levied December 1st, 1863, together with costs of advertising and expenses of sale, unless said assessments and charges are previously paid to the Secretary, at the office of the Company:

Names.	Shares.	Asst. No. 1—20c.	Asst. No. 2—30c
Brodhead, W. H.	200	$40 00	$60 00
Grotjan, G. W.	1	20	30
Marshall, Chas.	200	40 00	60 00
Parsons, S. H.	200		60 00
Turner, Geo. R.	9	1 80	2 70
Uhrig, C. A.	2	40	60
White, F. A.	200		50 00

S. C. GALLAHER, Secretary,
Office Nos. 1 and 2 Government House.
San Francisco, March 25th, 1864. 13-5t

Mr. Jarvis Jewett is our duly authorized advertizing agent nd collector in this city.

Two Good Canvassing Agents can find profitable em oyment by calling at this office. None but active and competen men need apply.

Enterprise Gold and Silver Mining Company, Location, El Dorado Canon, Arizona Territory.—Notice is hereby given, that, in accordance with the laws of the State of California, and in pursuance of an order made by the Board of Trustees of the Enterprise Gold and Silver Mining Company, at a meeting held March 23d, A. D. 1864, a sufficient number of shares of the capital stock of said Company, standing in the name of the following persons, will be sold at Public Auction, to the highest bidder for cash, in U. S. gold coin, at the office of the Company, No. 622 Washington street, San Francisco, on THURSDAY, the 28th day of April, A. D. 1864, at 2 o'clock P. M., as will pay Assessment No. 1 and 2, of amount and date as stated below, due and delinquent thereon, together with all costs accruing from advertising, sale, etc., if not previously paid—to wit:

Assessment No. 1, of fifty (50) cents per share, levied Sept. 7, 1861.

Names.	No. Shares.	Amt.
J. H. Williams.	250	$125 00
A. M. Bennett.	45	22 50
M. D. Fairchild.	50	25 00
S. L. DeLano.	10	5 00
C. A. James.	33	16 50
Robert Keir.	75	37 50
Alexander Keir.	75	37 50
William Wosenchraft.	75	37 50
C. W. Young.	2	1 00

Assessment No. 2, of fifty (50) cents per share, levied Feb. 8, 1864.

A. M. Bennett.	47	23 50
Thomas Brown.	5	2 50
J. P. Clark.	20	10 00
Joseph Coulter.	10	5 00
S. L. DeLano.	10	5 00
Columbia Dyer.	5	2 50
M. D. Fairchild.	35	17 50
C. Fink.	5	2 50
Jacob Heintz.	5	2 50
August Hess.	5	2 50
C. A. James.	40	20 00
O. E. Johnson.	25	12 50
Abraham Jones.	10	5 00
Robert Keir.	75	37 50
Alexander Keir.	75	37 50
John Miller.	100	50 00
J. F. Ridler.	5	2 50
T. H. Williams.	255	127 50
William Wosenchraft.	75	37 50
C. W. Young.	5	2 50
F. A. Bruch.	10	5 00

By order of the Board of Trustees.
L. B. WOOSTER, Secretary,
13-4t Office 622 Washington street, Room 13, S. F.

Bay State Gold & Silver Mining Company, Turnback District, Tuolumne County, Cal.—At a meeting of the Board of Trustees of the Bay State Gold and Silver Mining Company, held the 23d day of March A. D. 1864, an assessment (No. 4.) of two ($2) dollars per share on each and every share of the Capital Stock of said Company, was levied, (for a Mill fund), payable immediately, in U. S. Gold Coin, to the Secretary, at the Office of the Company, southeast corner of Howard and Second Sts., San Francisco. By order of the Board of Trustees. J. F. HARRIS, Sec'y.
San Francisco, March 24th, 1864. 13-4t

Great Western Gold & Silver Mining Company, Keyes District.—Notice is hereby given, that by a resolution adopted by the Board of Trustees of the Great Western Gold & Silver Mining Company, at a meeting held on the 17th day of November 1863, an assessment of sixty-five cents was levied upon every share of the Capital Stock of said Company to be paid immediately in U. S. Gold Coin, to the Secretary, at the Office of the Company, No. 27 Government House, corner Washington and Sansome Sts.

Also, an assessment of twenty-five cents per share, on each and every share, levied on March the 17th, 1864, to be paid immediately, in U. S. Gold Coin, to the Secretary at his Office.

C. A. CRANE, Sec'y.
San Francisco, March 19th, 1864. 13-5t

Mount Eden Mining Company, Owen Lode, Gold Hill District, N. T.—Notice is hereby given that the Board of Trustees of the Mount Eden Mining Company, at a meeting held March 17th, 1864, levied an assessment (No. 2,) of fifty cents on each and every share of the Capital stock of said Company, said assessment payable immediately in U. S. Gold Coin to the Secretary at the Office of the Company, No. 620 Washington St., Room No. 3, or to Franklin Morgan, Esq., Superintendent at the mine.

13-5t H. B. CONGDON, Sec'y.

Pleayne Gold, Silver and Copper Mining Company, Bear Gulch, Calaveras Co.—At a meeting of the Board of Trustees of the above Company, on the 17th day of February, 1864, an assessment of six cents per share on each and every share of the Capital stock of the said Company was levied, payable on or before the 22d day of March, 1864. And Notice is also hereby given that the first annual meeting of the Stockholders of the said Company will be held on Tuesday the 22d day of March 1864, at the office of the Company at Copperopolis, for the purpose of electing officers for the ensuing year, for the adoption of By-laws, and for the transaction of such other business as may come to its notice. All Stockholders are respectfully requested to attend.

By order of the Board of Trustees,
L. HONIGSBERGER, Sec'y.
Copperopolis, Feb. 17th, '64. 9v8-4t

Copperopolis, March 22d. 1864.

The above meeting has been postponed until the 20th of April next.

13-td L. HONIGSBERGER Sec'y.

Palmer's Patent
ARTIFICIAL LEG,
Manufactured in Philadelphia, Pa.
JARVIS JEWETT, AGENT.
629 Washington Street, San Francisco, Cal. 10v8-1m

GEORGE H. BAKER,
Lithographer & Engraver,
No. 522 Montgomery Street, San Francisco.
MINING STOCK CERTIFICATES LITHOGRAPHED IN THE MOST ARTISTIC STYLE. CALL AND EXAMINE SPECIMENS.
10v8-tf

ORE BAGS.
Of various qualities and sizes, for sale by LEWIS & DETRICK,
10v8-m 113 Clay St., San Francisco.

Business Cards.

W. O. ANDREWS,
NOTARY PUBLIC,
—AND—
Commissioner of Deeds for Nevada Territory,
Office, Montgomery Block, 630 Montgomery Street,
10v8 2m SAN FRANCISCO.

E. A. HYDE,
Commission & Stock Broker,
AND MEMBER OF
The "Washoe Stock Exchange"
10v8-1m Virginia, Gold Hill, N. T.

H. C. KIBBE,
Mining Secretary,
Commissioner for Nevada Territory,
22 Lyceum building, cor. Washington and Montgomery sts.,
10v8-tf SAN FRANCISCO.

A. J. Shipley,
Mining Stock, Loan & Money Broker.
Particular attention paid to Washoe, Esmeralda, and all other classes of Mining Stocks. Collections promptly attended to. Money to Loan on Stocks.
Office, Lyceum Building, Room No. 102, Entrance on Washington Street, above Montgomery, San Francisco. 9v8-q

HENRY BAKER AND JOS. N. SOUTHER,
Mining Secretaries & Brokers.
Rooms 12 & 14 Athenæum Building, corner Montgomery & California Streets, San Francisco.
B. & S. will attend, in a prompt and satisfactory manner, to the Incorporation of Mining and other Companies, the purchase and sale of Stocks and Real Estate, and the adjustment of accounts.
8v8-m

H. S. HOMANS,
NOTARY PUBLIC,
And Commissioner of Deeds for Nevada Territory,
MINING SECRETARY, CONVEYANCER, ETC.,
New Stock Exchange rooms, Montgomery Street, next door to the Bulletin Office, San Francisco. I-1m

T. C. SANBORN & CO.
Stock Brokers,
No. 630, Montgomery Street,.....San Francisco.
OPHIR SILVER MINING STOCK,
GOULD & CURRY MINING STOCK,
CHOLLAR MINING STOCK,
CALIFORNIA STEAM NAVIGATION COMPANY'S STOCK,
☞ BOUGHT AND SOLD. ☜
j1tf.

W. P. DENCKLA. A. L. CHAMBERLIN.
DENCKLA & CHAMBERLIN,
Stock and Exchange Brokers,
S. W. corner of Clay and Montgomery streets,
SAN FRANCISCO.
☞ Deeds, etc., for record in Humboldt County, Nevada Territory, received and forwarded. 1-tf

RENNIE & MORRISON,
STOCK BROKERS,
N. E. Cor. of Montgomery and Washington Sts., San Francisco.
Legal Tenders Bought and Sold. 7v8-mtf

L. B. ADSIT & JOHN J. HALEY,
Stock Brokers,
MEMBERS OF THE STOCK AND EXCHANGE BOARD OF BROKERS and of the PACIFIC BOARD OF BROKERS.
Stocks Bought and Sold only on Commission.
No. 601 Montgomery Street,
1-tf Between Clay and Merchant, San Francisco.

WM. S. LYON & CO.,
Stock and Exchange Brokers,
308 Montgomery Street, corner of Pine,
SAN FRANCISCO.
QUARTERMASTER'S WARRANTS BOUGHT. THE HIGHEST Price paid for Legal Tender Notes. Open till 9 P. M. 1-3m

JAS. L. POND, Member Pacific B'd of Brokers. G. S. CHAPIN, Member S. F. B'd of Brokers.
CHAPIN & POND,
STOCK BROKERS
No. 726 Montgomery street, Up Stairs
5v8-2m SAN FRANCISCO, CAL.

REMOVAL.
J. R. BEARD, STOCK BROKER,
MEMBER SAN FRANCISCO STOCK AND EXCHANGE BOARD,
HAS REMOVED HIS OFFICE TO
5v8-tf No. 707 Montgomery street, Brokers Block.

ORE BAGS
Of various Sizes and Qualities
FOR SALE IN BOND OR DUTY PAID, BY
10v8-1m CROSS & CO., 614 Battery St.

H. S. Saunders & Co.,
Stock Brokers,
Members of the Stock & Exchange (1st) Board and of the Pacific Board of Brokers.
Stock Exchange Room, No. 614 Montgomery street,
12v8-m SAN FRANCISCO.

W. R. MAURICE,
Stock Broker, Real Estate Agent
And Mining Secretary.
Office, No. 703 Montgomery Street, San Francisco. Reference—Messrs. Parrott & Co., Bankers. 8v8.tf

THOMAS HILL,
Member of the S. F. Stock and Exchange (1st) Board.
A. H. MURDOCK,
Member of Stock Exchange.
No. 623 Montgomery Street. Opposite Montgomery Block,
SAN FRANCISCO.

RICHARD WEGENER,
Accountant, Mining Secretary,
AND GENERAL AGENT.
No. 204 Montgomery St., Southeast cor. Montgomery & Pine Sts.,
11-m SAN FRANCISCO.

A. C. MORSE,
Mining and Real Estate Agent,
Office, S. W. corner Pine and Silver Sts., Aurora.
HAVING MADE ARRANGEMENTS WITH MINER S. MARTIN, Esq., one of the principal Stock Brokers of San Francisco, I am prepared to BUY and SELL every description of Mining Stocks in Esmeralda District. tf

ARMES & DALLAM,
IMPORTERS AND JOBBERS OF
WOOD AND WILLOW WARE,
Brushes, Twine, Cordage, Etc.,
And Manufacturers of California Pails, Tubs, Brooms, Etc.,
217 and 219 Sacramento St., between Front and Davis,
2-tf SAN FRANCISCO.

NATHANIEL GRAY,
General Furnishing Undertaker,
641 Sacramento St., corner of Webb, San Francisco. 1

PHILLIPS & CO.,
(Successors to W. H. Baxter & Co.,)
—MANUFACTURERS AND IMPORTERS OF—
HARNESS AND SADDLES,
BRIDLES, WHIPS, COLLARS, SADDLERY WARE, Etc.,
407 Battery St., between Clay and Merchant, San Francisco.
N. B.—All kinds of Work made to order and Warranted. Jobbing done with neatness and dispatch, and on the most reasonable terms.
2-tf

EDWARD BOSQUI & CO.,
517 Clay Street, San Francisco,
Book-Binders, Paper-Rulers,
And Blank Book Manufacturers.
Blanks of all kinds printed and ruled to any desired pattern. [2-tf

GEO. B. HITCHCOCK & CO.,
Counting-House Stationers,
HAVE ALWAYS IN STORE A WELL-SELECTED STOCK OF
American and Foreign Stationery.
Blank Books of all kinds, manufactured to any desired pattern, and at the shortest notice. Mining Companies supplied in the best manner, and at reasonable rates.
GEO. B. HITCHCOCK & CO.,
2-1m 413 and 415 Sansome St., cor. Commercial, S. F.

C. BEACH,
—IMPORTER AND DEALER IN—
Juvenile and School Books, Stationery,
Kustel's California Gold and Silver Processes of Extraction, Etc., Etc.
No. 34 Montgomery street (opposite the Lick House),
4v8-3m SAN FRANCISCO.

BUSWELL & CO.,
Book-Binders, Paper-Rulers,
And Blank-Book Manufacturers.
No. 509 Clay street and 508 Commercial street, between Montgomery
4v8-tf and Sansome, San Francisco.

WM. P. TAAFFEE,
IMPORTER AND JOBBER OF
Staple and Fancy Dry Goods, Carpets, Duck, etc.,
-tf Corner of Front and Sacramento Streets, San Francisco.

D. NORCROSS,
MILITARY GOODS OF ALL DESCRIPTIONS. NAVY TRIMMINGS AND EMBROIDERIES. REGALIA FOR ALL ORDERS.
aug17-tf Masonic Temple, No. 6, Post Street.

Owen's River Canal Company.
FOR SALE, FOR ACCOUNT OF THE COMPANY, 7,000 SHARES of the above stock, at $1 per share. It is confidently presented to the public as the best investment, for the price, now offered this market.
Office of the Company No. 325 Montgomery street. 1tf

E. D. Farrington,
ASSAYER.
No. 430 Montgomery street, San Francisco. N. B. Assays guaranteed. 8v8-1m

Richn, Hemme & Co.,
ASSAYERS.
☞ Assays made of Ores, Minerals and Metals. ☜
CHAS. F. RICHN, late U. S. Branch Mint, gives lessons in Assaying, also in Mineralogy and Chemistry, as far as required to become a practical Assayer.
REFERRED with permission to Messrs. F. Parrot & Co., R. B. Swain, Esq., Messrs. Alsop & Co., Messrs. Donohoe, Ralston & Co. 1

G. E. MOORE,
Assayer and Analytical Chemist,
Having established a Chemical Laboratory, furnished with every requisite for delicate Analytical work, is prepared to execute the Assay and Analysis of Ores, Mineral Waters, Guanos, etc., with accuracy and dispatch. No. 612 Sacramento Street.
REFERENCES:—Prof. J. D. Whitney, State Geologist, San Francisco; Alsop & Co., San Francisco; Sather & Church, San Francisco; John Parrott, San Francisco; D. O. Mills, Sacramento. 1tf

ASSAYS!
Promptness and Accuracy Secured
BY THE USE OF THE MOST IMPROVED METHODS OF ANALYSIS!
Advantageous Terms for Prospector's Clubs and Mining Companies.
J. H. CHURCHILL, M. A.,
[FROM EUROPE.]
24 Government Block, corner of Sansome and Washington Streets, San Francisco.
☞ "HINTS FOR PROSPECTORS" free by post. 1tf

NORTH BEACH
Quartz Mill and Reduction Works
ARE PREPARED TO WORK GOLD AND SILVER ORES, IN large or small quantities.
Working assays made of small lots, and all kinds of ores crushed at short notice.
Our new and complete Machinery, will enable us to give results fully up to the merits of rock.
WHEELER & THAYER, Proprietors.
C. C. JONES, Amalgamator.
San Francisco, Oct. 13, 1863. j2tf

HOWLAND, BELL & CO.,
Copper Crushing and Grinding.
Attend to all kinds of Grinding & Crushing,
—SUCH AS—
COPPER ORES, MARBLE DUST, FIRE-BRICK DUST, DRUGS,
And Feed of all Kinds,
All of which will be Ground at the Shortest Notice.
—ALSO—
California Mineral Paint and Mineral Polishing Powder.
Works—No. 537 Market Street.
San Francisco, January 1st, 1864. 1-tf

JOHN TAYLOR,
—IMPORTER AND DEALER IN—
Druggists' and Chemists' Glassware,
And a Full Assortment of Assayers' Articles.
—INCLUDING—
Bullion and Assay Ballances, Furnaces, Muffles, Crucibles, Cupels, Acids, Etc., Etc.
Also—A Full Assortment of Reagents.
JOHN TAYLOR,
2-tf 514 Washington St., Up Stairs, San Francisco.

KUSTEL & DEETKIN'S
METALLURGICAL WORKS,
FOR THE REDUCTION OF
SILVER AND GOLD ORES, TAILINGS, SULPHURETS, ARENIURETS, ETC., ETC. CUPELLATIONS AND REFINING OF SILVER AND GOLD,
Practical Assays for Silver and Gold, in small and large quantities, by Smelting, Chlorination and Pan Manipulation.
WORKS—On the San Bruno Road.
OFFICE—No. 605 Montgomery St., San Francisco. nov7-tf

Pacific Metallurgical Works,
North Beach, San Francisco.
THE COMPANY HAVING BEEN TO A LARGE EXPENSE IN enlarging their Works, are now prepared to contract to work any quantity of Gold and Silver Rock, nearer the true assay than any other Company in this Country, or Europe.
G. T. FOUQUE, Superintendent.
S. C. BRADSHAW, JR., Secretary.
Office, 511 Sacramento street, San Francisco. 3-tf

BLASTING POWDER!
Prime Blasting Powder, on Consignment
And for sale in lots to suit purchasers, by
J. S. CURTIS,
6v8-tf No. 405 Front street, San Francisco.

JOHN DANIEL,
(SUCCESSOR TO O. GOBI)
MARBLE WORKS,
No. 408 Pine street, bet. Montgomery and Kearny, San Francisco.
Mantels, Monuments, Tombs, Plumbers' Slabs, Etc.,
On hand and Manufactured to order.
☞ Goods shipped to all parts of the State. Orders respectfully solicited. 6v8-3m

Stock Reports.

SAN FRANCISCO STOCK BOARDS.

Sales by the San Francisco Stock and Exchange Board, the Stock Exchange, the City Stock Exchange Board of Brokers, and the Pacific Board of Brokers.

[Revised for the Mining and Scientific Press.]

Saturday, March 26, 1864.

S. F. STOCK AND EXCHANGE BOARD.

24 shares Ophir at $1680 per foot, Steamer day
10 do Pride of the West at $95, 00 d.
2 do Pride of the West at 86.
20 do Real del Monte at $40.
5 do Real del Monte at 41.
25 do Real del Monte at 42.
25 do Real del Monte at 42¾.
75 do Real del Monte at 43.
25 do Lady Bryan at $70, b 30.
10 do Lady Bryan at 69.
20 do Lady Bryan at 71, b 30.
47 do Lady Bryan at 68.
10 do Lady Bryan at 65, s 30.
10 do Lady Bryan at 67.
25 do Lady Bryan at 67, r w.
30 do Lady Bryan at 66, r w.
40 do Lady Bryan at 65, r w.
35 do Lady Bryan at 64.
20 do Lady Bryan at 77, b 30.
20 do Lady Bryan at 64, r w.
10 do Lady Bryan at 65.
10 do Lady Bryan at 68, b 3.
10 do Lady Bryan at 67, b 10.
50 do Lady Bryan at 65.
10 do Lady Bryan at 66, r w.
40 do Lady Bryan at 66¼.
40 do Lady Bryan at 69, b 30.
10 do Lady Bryan at 66.
20 do Lady Bryan at 68, b 15.
10 do Lady Bryan at 64, s 30.
40 do Lady Bryan at 66½, r w.
10 do Nevada, J. G., at $195, r w.
20 do Nevada, J. G., at 195.
8 do Nevada, J. G., at 190, r w.
10 do North American at $130.
10 do North American at 134.
10 do North American at 130, s 4.
10 do North American at 135.
65 do North American at 145, b 30.
80 do North American, at 135, s 5.
10 do North American at 146, b 30.
4 do Sierra Nevada at $73.
6 do Sierra Nevada at 74.
40 do Empress at $31, s 4.
10 do Burning Moscow at $104.

AFTERNOON SESSION.

2 do Real del Monte at $45.
10 do Real del Monte at 47½.
15 do Real del Monte at 48.
10 do Real del Monte at 48¼.
25 do Real del Monte at 48½, s 10.
10 do Real del Monte at 46½.
10 do Real del Monte at 48, b 30.
170 do Lady Bryan at $66.
40 do Lady Bryan at 65.
10 do Lady Bryan at 67, b 30.
10 do Lady Bryan at 64.
20 do Lady Bryan at 64½, b 10.
40 do Lady Bryan at 65, b 30.
10 do Lady Bryan at 63.
10 do Lady Bryan at 64, b 30.
10 do Lady Bryan at 62.
25 do Empress at $32.
10 do North American at $135.
22 do Burning Moscow at $100.
10 do Burning Moscow at 105, b 20.
10 do Gold Cannon at $32.
5 do Pride of the West at $85.

PACIFIC BOARD OF BROKERS.

22 do Real del Monte at 37, s 60.
8 do Real del Monte at 40.
10 do Real del Monte at 41.
3 do Real del Monte at 38½.
10 do Real del Monte at 41, s 30.
5 do Real del Monte at 45.
10 do Real del Monte at 45½.
10 do Real del Monte at 46.
10 do Lady Bryan at $70.
25 do Lady Bryan at 70, b 6.
10 do Lady Bryan at 68.
10 do Lady Bryan at 69.
40 do Lady Bryan at 68½.
25 do Lady Bryan at 71, b 10.
95 do Lady Bryan at 66.
70 do Lady Bryan at 66½.
100 do Lady Bryan at 66¼.
30 do Lady Bryan at 67.
110 do Lady Bryan at 67, 3 d
10 do Lady Bryan at 67½.
10 do Lady Bryan at 67½.
20 do Lady Bryan at 67, r w.
7 do Wide West at $20.
7 do Adriatic at $12.
100 do Josephine, Coso, at $1½.

STOCK EXCHANGE.

10 do Lady Bryan at $65, r w.
10 do Lady Bryan at 65.
10 do Lady Bryan at 66.
10 do Lady Bryan at 66½, r w.
10 do Lady Bryan at 67.
10 do Lady Bryan at 70, Tuesday.
10 do Lady Bryan at 70, r w.
20 do Lady Bryan at 69¾, Monday.
10 do Lady Bryan at 67.
10 do Lady Bryan at 65½.
10 do Lady Bryan at 65½, r w.
15 do Lady Bryan at 48, r w.
5 do Real del Monte at 42.
5 do Real del Monte at 43.
1 do Real del Monte at 46.
6 do Real del Monte at 45.
10 do Real del Monte at 45, r w.
13 do Real del Monte at 48.
28 do Harmon at $40.
5 do Harmon at 40½.
10 do Harmon at 40, r w.
40 do Lady Adams at $1½
10 do Nightingale, V., at $17.
5 do Burning Moscow at $102.
5 do Astor, G. H., at $8.
20 do Latrobe Tunnel at $26.

CITY STOCK AND EXCHANGE BOARD OF BROKERS.

do Burning Moscow at 110, b 30, n d.
24 shares Ophir at $1650.
10 do Uncle Sam at $775.
10 do Crockett at $6¼.
30 do Crocket at $6½.
5 do Kohler Bros. at $13½, b 30.
5 do Kohler Bros. at $13.

S. F. Stock and Exchange Bd. sales....	$147,685 00
Stock Exchange sales	13,490 50
Sales by the Pacific Board of Brokers..	39,199 50
City S. Exchange Bd. of Broker's sales.	48,070 00
Total sales of the day, by all Boards,.	248,345 00

Monday, March 28.

S. F. STOCK AND EXCHANGE BOARD.

2 shares Savage at $2500 per foot.
12 do Ophir at $1670 per foot.
20 do Chollar at $305 per foot.
10 do Burning Moscow at $100.
10 do Burning Moscow at 100, r w.
15 do Burning Moscow at 105, b 30.
10 do Burning Moscow at 99, r w.
10 do Burning Moscow at 98.
10 do Pride of the West at $83.
100 do Lady Bryan at $56, r w.
260 do Lady Bryan at 56.
110 do Lady Bryan at 57, b 10.
23 do Lady Bryan at 56¼.
20 do Lady Bryan at 56, s 3.
40 do Lady Bryan at 56, s 4.
10 do Lady Bryan at 56½, r w.
60 do Lady Bryan at 56, s 5.
30 do Lady Bryan at 56, s 10.
20 do Lady Bryan at 56, s 7.
10 do Lady Bryan at 58, b 10.
10 do Lady Bryan at 57, r w.
90 do Lady Bryan at 59, b 30.
20 do Lady Bryan at 57½.
30 do Lady Bryan at 57.
50 do Lady Bryan at 67, r w.
10 do North American at $125.
60 do North American at 110.
20 do North American at 117½.
6 do North American at 125, b 30.
10 do North American at 115, s 60.
15 do North American at 124.
20 do North American at 126.
20 do North American at 125, r w.
15 do Nevada, J. G., at $170.
10 do Nevada, J. G., at 180.
5 do Nevada, J. G., at 170.
10 do Nevada, J. G., at 165, r w.
15 do Nevada, J. G., at 165.
10 do Nevada, J. G., at 175, b 30.
20 do North Potosi at $37½.
10 do North Potosi at 35.
10 do Baltimore American at $40¼.
20 do Baltimore American at 40.
10 do Real del Monte at $44.

AFTERNOON SESSION.

4 do Gould & Curry at $4550 per foot.
40 do Dancy at $105 per foot.
10 do Lady Bryan at $54.
10 do Lady Bryan at 55, b 30.
60 do Lady Bryan at 53.
105 do Lady Bryan at 63, b 30.
10 do Lady Bryan at at 53½.
10 do North American at $130.
60 do North American at 140.
10 do North American at 142½.
8 do North American at 143.
10 do North American at 152½, b 30.
30 do Burning Moscow at $105, b 30.
7 do Burning Moscow at 100.
20 do Burning Moscow at 101, r w.
10 do Burning Moscow at 101.
10 do Melones at 50, b 30.
30 do Buckeye at $13.
1 do Savage at $2550.

PACIFIC BOARD OF BROKERS.

10 do Lady Bryan at $60.
10 do Lady Bryan at 61.
10 do Lady Bryan at 62½, b 30.
10 do Lady Bryan at 62 b 30.
20 do Lady Bryan at 58½.
10 do Lady Bryan at 59.
10 do Lady Bryan at 61, r w.
40 do Lady Bryan at 54.
20 do Lady Bryan at 54¼.
10 do Lady Bryan at 54¾.
40 do Lady Bryan at 54½.
30 do Lady Bryan at 55.
10 do Lady Bryan at 55½.
30 do Lady Bryan at 56.
10 do Lady Bryan at 56¾.
10 do Lady Bryan at 56, b 10.
19 do Lady Bryan at 56½, b 10.
10 do Lady Bryan a 56, b 16.
40 do Lady Bryan at 57.
10 do Lady Bryan at 57¼.
10 do Lady Bryan at 57, b 10.
10 do Lady Bryan at 57½, b 30.
65 do Kohler Bros at $11.
5 do Beaver at $21.
3 do Real del Monte at $42¾.
10 do Chas. Cany at $7½.

STOCK EXCHANGE.

30 do Lady Bryan at $58, r w.
10 do Lady Bryan at 57½.
35 do Lady Bryan at 58.
10 do Lady Bryan at 57¾.
10 do Lady Bryan at 62, b 30.
30 do Lady Bryan at 54¾.
10 do Lady Bryan at 55.
10 do Lady Bryan at 54.
10 do Lady Bryan at 58, b 30.
10 do Lady Bryan at 54, r w.
10 do Lady Bryan at 53, r w.
10 do Harmon at $39.
6 do Real del Monte at $45.
10 do Real del Monte at 43, r w.
8 do Real del Monte at 43.
10 do Baltimore American at $40¾.
10 do Coso at $4, r w.
13 do Coso at 4.

CITY STOCK AND EXCHANGE BOARD OF BROKERS.

60 do Central No. 2 at $800, b 30.
5 do Real del Monte at $43.
10 do Real del Monte at 44
10 do Real del Monte at 43, r w.
5 do Lady Bryan at $56.
10 do Lady Bryan at 56½, r w.
10 do Lady Bryan at 59, b 30.
10 do San Carlos at $10.

S. F. Stock and Exchange Bd. sales....	$178,799 00
Sales by the Pacific Board of Brokers..	22,793 75
Sales by the Stock Exchange.....	11,877 00
City Stock Exchange Sales.....	51,185 00
Total sales of the day, by all Boards,	264,654 75

Tuesday, March 29.

S.F. STOCK AND EXCHANGE BOARD.

20 shares Chollar at $375 per foot, s 60.
10 do Real del Monte at $38, s 30.
10 do Real del Monte at 39, r w.
6 do Real del Monte at 41, b 30.
16 do Real del Monte at 39.
10 do Nevada, J. G., at $150, r w.
30 do Nevada, J. G., at 160, b 30.
36 do Nevada, J. G., at 130, s 30.
50 do Lady Bryan at $49.
30 do Lady Bryan at 51, b 30.
20 do Lady Bryan at 48½.
80 do Lady Bryan at 49, r w.
20 do North American at $142½, s 10.
33 do North American at 145.
5 do North American at 155, b 30.
10 do North American at 146.
10 do North American at 145, s 6.
10 do North American at 157, b 30.
5 do North American at 145, s 20.
2 do North American at 160.
10 do North American at 163, b 30.
10 do North American at 152½, b 30.
5 do North American at 152, b 30
10 do North American at 151, b 30.
5 do Burning Moscow at $107, s 4.
26 do Burning Moscow at 105.
6 do Baltic at $146.
6 do Baltic at 155, b 30.
35 do Empress, G. H., at $31, b 30.

AFTERNOON SESSION.

36 do Harmon, E., at $43½, b 30.
50 do Real del Monte at $39.
10 do Real del Monte at 39¼.
5 do Real del Monte at 39.
10 do Blue Ledge at $20, b 20.
20 do Buckeye at $14.
30 do Buckeye at 14½.
20 do North American at 152, b 30.
40 do North American at 140, s 30.
55 do North American at 143.
20 do North American at 138, s 30.
26 do North American at 142.
10 do North American at 133, s 60.
20 do Nortb American at 144.
20 do North American at 142½.
20 do Lady Bryan at $52½.
70 do Lady Bryan at 52.
10 do Lady Bryan at 64, b 30.
50 do Lady Bryan at 50, s 30.
45 do Lady Bryan at 52.
40 do Lady Bryan at 54, b 30.
5 do Burning Moscow at $105.
10 do Burning Moscow at 106, r w.
10 do Burning Moscow at 106.
10 do Burning Moscow at 107, r w.
10 do Burning Moscow at 107.
10 do Michigan at G. H., at $30, r w.
15 do De Soto at $42½, b 30.
10 do Nevada, J G., at $150, r w.

PACIFIC BOARD OF BROKERS.

10 do North Potosi at $35.
6 do North American at $145.
2 do Burning Moscow at $106.
10 do Real del Monte at $42.
10 do Real del Monte at 41½.
10 do Burnside at $10½.
6 do Caledonia Tunnel at $21.
3 do Blue Ledge at $21, b 30.
18 do Kohler Bros at $12.
18 do Kohler Bros at 13, b 30.
110 do Lady Bryan at $50.
20 do Lady Bryan at 51.
10 do Lady Bryan at 51½.
10 do Lady Bryan at 52.
10 do Lady Bryan at 51, b 10.
20 do Lady Bryan at 52, b 20.
10 do Lady Bryan at 51 b 6.
10 do Lady Bryan at 47, s 30.
60 do Lady Bryan at 48, s 30.
10 do Lady Bryan at 52½, b 30.
10 do Lady Bryan at 48½.
10 do Lady Bryan at 55, b 30.
10 do Lady Bryan at 49½.
10 do Lady Bryan at 54, b 30.
10 do Lady Bryan at 49, s 30.
30 do Lady Bryan at 50.
50 do Lady Bryan at 50½.
10 do Lady Bryan at 51¼.
10 do Lady Bryan at 50¼.
10 do Real del Monte at $39.
20 do Real del Monte at 33.
30 do Real del Monte at 37½.
10 do Real del Monte at 37.
20 do Real del Monte at 40, b 30.
10 do Blue Ledge at $19.
10 do Blue Ledge at 22, b 30.

STOCK EXCHANGE.

10 do Lady Bryan at $50.
10 do Lady Bryan at 49, r w.
20 do Lady Bryan at 49.
30 do Lady Bryan at 48, r w.
10 do Lady Bryan at 48.
25 do Lady Bryan at 48¼.
6 do Wide West at $20.
5 do Real del Monte at $41.
15 do Real del Monte at 39¼.
10 do Harmon at $39½.
20 do Crockett Consolidated at $5.
10 do Lady Bryan at $51.
10 do Lady Bryan at 52, r w.
30 do Lady Bryan at 52½, r w.
10 do Lady Bryan at 53, r w.
10 do Lady Bryan at 53.
10 do Lady Bryan at 52½.
3 do Pride of the West at $89,
10 do Crocket at $5½
10 do Real del Monte at $41.
50 do Rosario, Sinaloa, Mex.
5 do Real del Monte at 38½.

CITY STOCK AND EXCHANGE BOARD OF BROKERS

103 do Crockett Consolidated at $5.
80 do Crockett Consolidated at 5, r w.
40 do Crockett Consolidated at 6½, b 30.
10 do San Carlos at $11.
5 do Kohler Bros at $13½.
10 do Lady Bryan at $47.
20 do Lady Bryan at 48.
10 do Lady Bryan at 49.
10 do Lady Bryan at 48½, r w.

S. F. Stock and Exchange Bd. sales....	$103,665 00
Pacific Board of Brokers' sales.....	29,945 00
Stock Exchange sales.....	13,104 50
City Stock & Exchange sales, ...	3,717 50
Total sales of the day by all Boards,..	150,432 00

Wednesday, March 30.

S. F. STOCK AND EXCHANGE BOARD.

4 shares Gould & Curry at $4500 per foot.
20 do Real del Monte at $39¼.
30 do Utah at $18.
15 do Burning Moscow at $105.
10 do Burning Moscow at 111, b 30
10 do Burning Moscow at 110, b 30.
25 do Burning Moscow at 140, r w.
10 do Buckeye at $15.
35 do Buckeye at 14½.
10 do Lady Bryan at $51.
115 do Lady Bryan at 50.
10 do Lady Bryan at 51, b 30.
30 do Lady Bryan at 47½, s 30.
20 do Lady Bryan at 50, b 30.
20 do Lady Bryan at 49, r w.
55 do Lady Bryan at 48, s 10.
20 do Lady Bryan at 50, b 30.
20 do Lady Bryan, at 47, s 30.
90 do Lady Bryan at 48, s 10.
30 do Lady Bryan at 48.
20 do Lady Bryan at 50, b 30.
10 do Empress, G. H., at $29.
10 do Empress, G. H., at $28.
20 do Blue Ledge at $18, s 30.
10 do Pride of the West at $83, r w.
10 do North American at 150, b 30.
10 do North American at 139, s 30.
10 do North American at 137½, s 30.
6 do North American at 140.
10 do North American at 135, s 60.
10 do North American at 145.
20 do North American at 146, b 30.
5 do North American at 138.
1 do Savage at $2645 per foot.
10 do Desert at $10.
10 do Baltic at $160, b 30.

AFTERNOON SESSION.

12 do Ophir at $1540 per foot.
12 do Ophir at $1560 per foot.
20 do Dancy at 110 per foot.
50 do Real del Monte at $40.
10 do Real del Monte at 40, b 3
10 do Real del Monte at 39.
10 do Real del Monte at 39, s 30.
90 do Real del Monte at 39, r w.
10 do Central American at $5.
10 do Baltic at 160, b 30.
30 do Lady Bryan at $48.
10 do Lady Bryan at 48, r w.
35 do Lady Bryan at 47½.
230 do LadyBryan at 47, r w.
10 do Lady Bryan at 48½, b 3.
10 do Nevada, J. G., at 150, b 15.
10 do Nevada, J. G., at 140, r w.
10 do Nevada, J. G., at 145, b 30.
30 do Nevada, J. G., at 140, b 30.
20 do Nevada, J. G., at 132½, s 30.
10 do Nevada, J. G., at 130, s 30.
10 do Burning Moscow at $110, b 30.
10 do North American at $135.

PACIFIC BOARD OF BROKERS.

40 do Real del Monte at $40.
10 do Real del Monte at 40½.
10 do Real del Monte at 42½, b 30.
10 do Real del Monte at 39.
10 do Real del Monte at 40.
20 do Real del Monte at 42, b 30.
20 do Real del Monte, at 41.
5 do Real del Monte at 38¼, s 10.
10 do Real del Monte at 38¾.
10 do Real del Monte at 42, b 25.
100 do Ben Franklin, at $4.
10 do Nightingale V, at $17.
10 do Lady Bryan at 50¼.
60 do Lady Bryan at 51½.
20 do Lady Bryan at 52.
10 do Lady Bryan at 50, s 20.
50 do Lady Bryan at 50, s 30.
10 do Lady Bryan at 54, b 30.
20 do Lady Bryan, at 53, b 30.
10 do Lady Bryan at 53½, b 30.
70 do Lady Bryan at 48.
10 do Lady Bryan at 48¼.
130 do Lady Bryan at 48½.
10 do Lady Bryan at 47½.
30 do Lady Bryan at 47½, s 20.
20 do Lady Bryan, at 48, b 3.
55 do Central American at $5.
20 do Central American at 5½.
20 do Santa Rosa at $5.
20 do Utah at $18.
10 do Fanny Rayne, O. R, at $25.
5 do Buckeye at $14½.
40 do Kohler Bros. at $12.

STOCK EXCHANGE.

30 do Lady Bryan at $49.
10 do Lady Bryan at 49, r w.
20 do Lady Bryan at 48½.
10 do Lady Bryan at 48.
10 do Lady Bryan at 48, r w.
5 do Lady Bryan at 47¾.
10 do Lady Bryan at 46½.
25 do Palmyra Consolidated at $3.
24 do Ida, R. D., at 75c.
20 do Central American at $5.
10 do Caledonia Tunnel at $20¾.
5 do Real del Monte at $40½.
15 do Real del Monte at 40.
15 do Real del Monte at 40, r w.
10 do Real del Monte at 39.
3 do Pride of the West at $82½.
10 do Blue Ledge at $19¾.
2 do Harmon, at $40.
5 do Coso at $3.

S. F. Stock and Exchange Bd. sales.....	$147,025 00
Stock Exchange sales,.....	7,323 00
Sales by the Pacific Board of Brokers..	30,850 00
Total sales of the day, of all Boards,..	185,228 00

Thursday, March 24.

S. F. STOCK AND EXCHANGE BOARD

40 shares Chollar at $300 per foot.
2 do Savage at $2600 per foot.
5¼ do North American at $150.
10 do North American at 152½.
10 do North American at 145, s 60.
15 do North American at 151½.
20 do North American at 152.
35 do Lady Bryan at $45.
20 do Lady Bryan at 48, b 30.
10 do Lady Bryan at 46, r w.
40 do Lady Bryan at 46.
50 do Lady Bryan at 46½.
50 do Lady Bryan at 47, r w.
118 do Buckeye at 13, b 30.
10 do Buckeye at 14.
5 do Overman at $215.
5 do Burning Moscow at $100.
7 do Sacramento and Meredith at $45.
21 do Sacramento and Meredith at $50.
10 do Echo at $25.
10 do Echo at 23.
10 do Nevada, J. G., at $130.
10 do Nevada, J, G., at 125.
10 do Nevada, J. G., at 120.
39 do Nevada, J. G., at 125.
76 do Baltic at $160, b 30.
30 do Baltic at 150.
20 do Pride of the West at 83, r w.
10 do Rogers, P. D., at 38, b 30.
10 do Blue Ledge at $20, b 30.
25 do Blue Ledge at 18.
50 do Blue Ledge at 18, s 30.
10 do North Potosi at 35, b 30.
10 do North Potosi at 34, b 30.

AFTERNOON SESSION.

80 do Dancy at $120 per foot.
5 do Baltic at $160.
30 do North American at $165.

20 do North American at 167½.
10 do North American at 170, s 3.
10 do North American at 170.
55 do North American at 172½.
65 do North American at 175.
5 do North American at 168.
10 do Lady Bryan at $46¾.
20 do Lady Bryan at 46.
10 do Lady Bryan at 45¾.
20 do Lady Bryan at 45, b 30.
20 do North Potosi at $30.
10 do Empress, G. H., at $25.
10 do Nevada, J. G., at 125.
20 do Nevada, J. G., at 135, b 30.
11 do Nevada, J. G., at $130.
10 do Nevada, J. G., at 140, b 30.
7 do Nevada, J. G., at 135, r w.
10 do Keystone, V. D., at $35.
11 do Gold Cannon at $25.
20 do Blue Ledge at $18¼.

PACIFIC BOARD OF BROKERS.

80 do Lady Bryan at 42½.
20 do Lady Bryan at 42.
20 do Lady Bryan at 43.
40 do Lady Bryan at 43¾.
10 do Lady Bryan at 45¾.
10 do Lady Bryan at 45, b 30.
30 do Lady Bryan at 42½, r w.
20 do Lady Bryan at 43, r w.
30 do Lady Bryan at 45, b 20.
10 do Kohler Bros. at 13½, b 30.
10 do Kohler Bros. at 23.
15 do Crockett at $3.
60 do Lady Bryan at $46½.
20 do Lady Bryan at 46¾.
60 do Lady Bryan at 47.
10 do Lady Bryan, at 47¼.
40 do Lady Bryan at 47½.
30 do Lady Bryan at 47, r w.
30 do Lady Bryan at 50, b 30.
10 do Lady Bryan at 52, s 30.
20 do Lady Bryan at 49½, r w.
30 do Lady Bryan at 47½, r w.
2 do North American at $167.
5 do Bullion, G. H., at $70.
10 do Bullion at 75, b 30.
40 do Central American at $6.
10 do T. M. Copper at $5.
4 do N. Star, R. R., at $25.
10 do Santa Rosa at $5.
15 do Buckeye at $14.

STOCK EXCHANGE.

10 do Lady Bryan at $44.
10 do Blue Ledge at $19½.
10 do Blue Ledge at 19¾, r w
10 du Caledonia Tunnel at $20¾.
15 do Central American at 5½.
5 do Crown Point Ravine at $5¾.
5 do Wide West at $19.
10 do Furls, G. H., at $5.
10 do Rising Sun at $1¼.
10 do De Soto at $40.
10 do Blue Ledge at $19.

S. F. Stock and Exchange Bd. sales	$124,960 00
Stock Exchange sales	1,897 00
Pacific Board of Brokers' sales	30,654 50
Total sales of the day, by both Bds,	157,511 50

Friday, April 1.

S. F. AND EXCHANGE BOARD.

100 shares Dancy at $120 per foot.
9 do Sacramento & Meridith at $50.
1 do Crown Point at $900 per foot.
1 do Uncle Sam at $850 per foot.
60 do Chollar at 300.
20 do Chollar at 305.
10 do Chollar at 306 per foot.
5 do Burning Moscow at $105.
10 do Burning Moscow at 96.
5 do Burning Moscow at 97.
10 do Burning Moscow at 100, h 18.
20 do Lady Bryan at $45½.
20 do Lady Bryan at 46.
40 do Lady Bryan at 46¾.
70 do Lady Bryan at 47.
25 do Uncle Sam, F. D., at $5.
85 do Uncle Sam, F. D., at $6, b 30.
10 do Nevada, J. G., at $140, b 30.
20 do Nevada, J. G., at 142½, b 30.
20 do Nevada, J. G., at 125.
20 do Nevada, J. G., at 140, b 30.
70 do North American at $160.
10 do North American at 150, s 30.
10 do Baltic at $150, b 30.
10 do Real del Monte at $37.

AFTERNOON SESSION.

10 do Lady Bryan at $50.
150 do Lady Bryan at 52.
10 do Lady Bryan at 52, r w.
17 do North American at $165.
10 do North American at 165, s 30.
65 do North American at 170.
10 do North American at 165, s 30.
5 do North American at 177, b 15.
20 do North American at 171, s 4.
30 do North American at 180, b 30.
5 do North American at 171.
1 do Uncle Sam at $900, b 30.
3 do Sacramento & Meridith at $50.
29 do Central American at $5.
73 do Chollar at $310.
10 do Bullion at $75.
5 do Yellow Jacket at $1100.

PACIFIC BOARD OF BROKERS.

10 do Lady Bryan at $42½.
10 do Lady Bryan at 42.
10 do Lady Bryan at 43¾.
10 do Lady Bryan at 44.
20 do Lady Bryan at 45.
10 do Lady Bryan at 45¼.
100 do Lady Bryan at 45½.
20 do Lady Bryan at 45¾.
5 do Caledonia Tunnel at $21.
10 do Caledonia Tunnel at 21¾.
10 do Buckeye at $13½, b 30.
10 do Buckeye at 14.
5 do Burnside at $11.
10 do Central American at $6.
10 do Charles Cany at $6.
10 do Burning Moscow at $103, h 30.
10 do Real del Monte at $37.
50 do Sacramento, E. S. R., at $3½.
10 do Lady Bryan at $47.
40 do Lady Bryan at 45½.
50 do Lady Bryan at 48.
10 do Lady Bryan at 49½.
10 do Lady Bryan at 50, b 30.
20 do Lady Bryan at 51, b 30.
30 do Lady Bryan at 46, s 30.
5 do Real del Monte at $38.

STOCK EXCHANGE.

7 do Burning Moscow at $100.
20 do Lady Bryan at $45.
60 do Lady Bryan at 47.
5 do Lady Bryan at 46¼.
10 do Harmon at $42.
10 do Caledonia Tunnel at $22.
25 do Gray Eagle at R. R., at $7¾.

S. F. Stock and Exchange Bd. sales	$125,257 50
Sales by the Pacific Board of Brokers	19,152 50
Sales by the Stock Exchange	5,368 25
Total sales of the day, by all Boards,	153,608 25
Total sales of the week, by all Boards	$1,159,179 50

Gold in New York.

Friday March 25.....168¼@171.
Monday March 28.....169¾@170.
Tuesday March 29.....165.
Wednesday, March 30.....165@168.
Thursday March 31.....163@164.

San Francisco Stock and Exchange Board.—Prices Bid and Asked.

WASHOE STOCKS.	FEET.	SHARES.	VAL.	Saturday. BID.	Saturday. ASKED.	Monday. BID.	Monday. ASKED.	Tuesday. BID.	Tuesday. ASKED.	Wednesday. BID.	Wednesday. ASKED.	Thursday. BID.	Thursday. ASKED.	Friday. BID.	Friday. ASKED.
Ophir	1,400	16,800	300	1,670	1,700	1,650	1,665	1,600	1,650	1,550	1,600	1,550	1,650	1,575	1,640
Gould & Curry	1,200	4,800	500	—	4,700	4,500	4,600	—	4,600	4,400	4,500	4,300	4,450	4,375	4,425
Savage	800	800	2,000	2,490	2,600	2,525	—	2,550	2,630	2,600	2,625	2,575	2,600	2,580	2,675
Chollar	1,400	5,600	300	295	—	305	310	375	400	375	400	300	340	300	320
Potosi	1,400	2,800	500	—	1,100	—	—	—	—	—	—	—	1,100	900	1,200
Hale & Norcross	900	900	500	—	—	—	—	—	—	—	700	—	—	—	—
Sierra Nevada	3,000	3,000	500	100	105	66	75	75	—	60	70	65	70	—	75
Dancy	2,000	800	60	106½	107	100	110	100	—	105	—	105	117	115	125
Burning Moscow	4,100	4,100	500	100	104	96	98	101	105	103	105	100	103	96	97
North Potosi	2,000	2,000	250	30	39	30	36	30	34	30	35	—	30	27	33¾
Charles Cany	1,800	1,800	30	—	—	—	—	—	—	—	—	—	12	—	—
Iowa	1,200	1,200	1,000	—	—	—	100	—	—	—	—	—	—	—	—
El Dorado	1,600	1,600	500	—	35	—	—	—	—	30	35	—	—	—	—
Norton	1,600	1,600	50	—	—	—	—	—	—	—	—	—	—	—	—
Burnside	2,800	2,800	500	—	12	—	—	—	15	10	14	8	—	8	12
Adriatic	2,700	2,700	100	—	—	—	12	—	11	—	11	—	12	—	10
Pride of the West	1,400	1,400	100	85	86½	83	83	83	83	82	83	82	83	—	—
Imperial	184	4,000	500	—	150	—	—	120	—	—	—	—	—	120	150
Crown Point	600	1,200	100	—	—	—	—	—	—	—	—	900	1,175	900	—
Manhattan	—	—	—	—	—	—	8	—	7	—	—	—	—	—	7
Seneca	—	—	—	—	16	—	17	—	13	—	12	5	12	7	10
Mt. Davidson tun'l	1,000	1,000	200	—	—	—	—	—	—	—	3	—	2¾	—	—
Caledonia Tunnel	—	—	—	23	25	21	24	20	22½	20	22	20	—	21	25
Bajazet & G. Era	4,000	4,000	300	30	35	30	—	33½	75	47½	70	—	70	—	—
Cedar Hill tunnel	—	1,000	100	—	—	—	—	—	—	—	—	—	—	—	—
Gold Hill Qu'tz Mill	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ESMERALDA.															
Wide West	1,400	1,400	2,600	15	23	—	22	18	—	17	22	—	—	17	21
Antelope	1,200	1,200	500	220	360	220	275	—	—	—	300	—	265	—	290
Esmeralda	1,600	1,600	1,000	—	—	—	—	—	—	7	10	—	—	—	—
Real del Monte	4,400	4,400	400	44	45	42	44	38½	39	39½	42½	36	40	36	37
Utah	1,600	1,600	250	17	20	16	—	—	10	18	20	—	—	16	25
Silver Hill	3,000	3,000	500	—	—	—	9	—	10	—	10	—	11	—	10
Nevada	600	1,200	250	—	—	—	—	—	—	—	—	—	—	2	—
Falls of Clyde	6,000	6,000	100	—	—	—	—	—	—	—	2	—	2	—	—
Bamboo	600	600	500	—	—	—	—	—	30	—	—	—	30	—	—
Crockett	—	—	—	—	8	—	7	3	7½	—	8	—	5	2	5
Federal Hope	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Jenny Lind	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
COSO.															
Josephine	9,600	4,800	2,500	—	—	1	—	1	—	1	—	1	—	—	—
Willow Springs	2,700	2,700	100	—	4	—	—	—	3	—	—	—	4	—	—
Coso	2,600	3,600	600	—	—	—	4	—	5	—	—	—	5	—	5
COPPER.															
Napoleon	2,700	2,700	600	80	80	—	—	70	—	70	—	—	—	—	80
Josephine	—	—	—	—	10	—	—	—	8	—	8	—	—	—	7
CALIFORNIA.															
Laurel Hill	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rhodes Diggings	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—
Fellowes	2,500	2,500	100	—	16	—	—	—	18	—	—	—	—	—	—
Maxwell	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rock River	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Eureka	—	—	—	—	—	—	—	—	—	—	—	—	35	—	—
HUMBOLDT STOCKS.															
De Soto	1,980	1,980	100	—	—	—	50	35	45	33	42½	30	46	—	45
Great Basin	—	—	—	—	—	—	—	—	1½	—	—	—	—	—	—

Record of New Incorporations.

The following is a record of the names of the companies, location of the claims, and the names of the Trustees mentioned in the articles of incorporation, filed in the County Clerk's office, in this city, since our last report:—

Coa Vortilla G. & S. M. Co., Sinaloa district, Mexico; Charles S. Norris, C. W. Felton, S. L. Franklin.

Golden Circle G. & S. M. Co., Lander county, N. T.; H. B. Osborn, Joseph Healy, G. H. Johnson, J. H. Bullard, J. W. Myrick.

Stonington G. & S. M. Co., Nevada county, Cal.; Wm. Berry, A. H. Murdock, David Wilder.

Starr King G. & S. M. Co., Lander county, N. T.; P. A. Wood, A. Lander, A. J. Downer, M. M. Barker, Isaac Swain.

Ruby Copper M. Co., Del Norte county, Cal.; C. Schenck, T. H. Follingsby, E. Rondell, W. L. Howd, — Hastings.

Downey S. M. Co., Lander county, N. T.; Wm. Molony, Michael Price, Maurice Walsh.

Black M. Co., Chimewavo district, Cal.; Andrew J. Chase, S. A. Hall, L. A. Morgan.

Durango S. M. Co., Lander county, N. T; E. G. Barton, N. P. Perrine, James J. Walker.

Carlota G. & S. M. Co., Lander county, N. T.; J. S. Friedman, C. Spencer, J. A. Reichert, E. B. Drake, H. W. Bradley.

Annita G. & S. M. Co.; same as above.

Teresa Robles S. & S. M. Co.; same as above.

Sierra Plata S. M. Co., Chihuhua, Mexico; Richard Chenery, E. D. Shirland, H. B. Brooks, John Bensley, A. Powell, Jr., C. W. Riley, Isaac A. Davis.

North Superior C. M. Co., Plumas county, Cal.; A. J. Ford, Allan Meade, O. D. Peck, Wm. Bell.

Wyandotte M. Co., Lander county, N. T.; W. Augustus Knapp, O. Anderson, Isaac Thurber.

Tomoco C. M. Co., Sonora, Mexico; Geo. T. Middleton, Wm. Gill, Wm. P. Humphreys.

NEVADA TERRITORY.

We gather from the Territorial papers the following names of mining companies which have recently filed papers of incorporation in Nevada Territory:—

Ophir No. 2 O. & S. M. Co. American Flat district; Jacob Smith, J. W. Phillips, W. Clancy, W. H. Howard.

Little G. & S. M. Co., Blue Sulphur Springs district; S. Wasserman, John Wallace, A. Hecht, H. Friedentlal, A. Cohen.

New Virginia Consolidated G. & S. M. Co., New Virginia district; J. Piontz, G. H. Dorr, W. W. Bishop, D. Wood, P. Lynch.

Paul Pry G. & S. M. Co., Sulphur Springs district; Wm. Burke, Thomas Riley, P. A. Sawyer.

IMPORTANT!

The Best is Always the Cheapest!

THE PHŒNIX

INSURANCE COMPANY,

OF HARTFORD, CONN.,

And the $75,000 Deposit Act.

THE BILL REQUIRING ALL FOREIGN INSURANCE COMPANIES to make a special Deposit of $75,000 in Stocks of the United States, of this State, or stocks or bonds of the city, or city and county of San Francisco, with their bunker or bunkers in this city, on the FIRST DAY OF MAY, 1864, having become a law, it may be of interest to the insuring public to know that the PHŒNIX INSURANCE COMPANY, OF HARTFORD, IS READY TO COMPLY WITH ITS REQUIREMENTS AT ONCE. The Company has over $50,000 in city and county of San Francisco bonds, already on deposit with Messrs. Banks & Co.

R. H. MAGILL, General Agent.

CITY OFFICE—In the "James King of Wm." building, southwest corner of Montgomery and Commercial streets, San Francisco.

1. FRANK, City Solicitor. (14v8-tf) L. B. DELL, City Agent.

C. A. CRANE. A. E. CRANE.

CRANE BROS.,

Stock and Exchange Brokers,

No. 614 Montgomery st., Stall No. 5, Stock Exchange, San Francisco.

☞ All kinds of Stocks Bought and Sold on Commission. 14

PACIFIC IRON WORKS,

First street, between Mission and Howard streets,

SAN FRANCISCO.

GODDARD & COMPANY,

— MANUFACTURERS OF —

STEAM ENGINES & BOILERS,

QUARTZ, FLOUR, SAW AND SUGAR MILLS,

AMALCAMATING PANS AND BARRELS, MINING PUMPS

AND HOISTING GEAR, WATER WHEELS,

And Machinery of Every Description.

Also furnish all kinds of Iron and Brass Casting. Only Manufacturers of the celebrated Bryan Battery. 14-tf

PRATER'S CONCENTRATOR.

THE PROPRIETORS OF THIS NEW CONCENTRATOR, HAVING completed arrangements for its manufacture at the Fulton Foundry, in this city, now offers it to the public, with the fullest confidence that for the purpose for which it is designed

It Has No Equal in Use.

The principle of this machine, which is designed for a Concentrator exclusively, is entirely new. It is designed for separating finely divided quicksilver, amalgam and gold from the sands, and for concentrating and saving the sulphurets, and is to be placed behind all or any other machine in use. It is now in operation at

WHALER & THAYER'S REDUCTION WORKS,

NORTH BEACH, SAN FRANCISCO,

To whom the Proprietors are permitted to refer, and where all interested in mining are respectfully invited to call and examine the best Concentrator in use.

This machine is now running on waste sands, from which it is taking out an average of 3½ pounds of quicksilver for each ton of sand. Orders or letters of enquiry may be addressed to

HUNGERFORD & PRATER, Proprietors.

San Francisco, April 1st, 1864. 14v8-tf

PHŒNIX WORKS.

Nos. 6 & 8 Battery street, near Bush, San Francisco.

JOHNATHAN KITTREDGE, MANUFACTURER

—OF—

FIRE-PROOF DOORS, SHUTTERS, GRATINGS AND BANK VAULTS.—ALSO, BLACKSMITH'S WORK. 14-m

Brown's Bronchial Troches.

"I have never changed my mind respecting them from the first, excepting to think yet better of that which I began to think well of." REV. HENRY WARD BEECHER.

"The Troches are a staff of life to me." PROF. EDWARD NORTH, Pres. Hamilton College, Clinton, N. Y

"For Throat Troubles they are specific." N. P. WILLIS.

"Too Well known to need commendation." HON. CHAS. A. PHELPS, Pres. Mass. Senate.

"Contain no Opium nor anything injurious." DR. A. A. HAYES, Chemist, Boston.

"An elegant combination for Coughs." DR. G. F. BIGELOW, Boston.

"I recommend their use to Public Speakers." REV. E. CHAPIN.

"Most salutary relief in Bronchitis." REV. S. SZIGFRIED, Morristown, Ohio.

"Very beneficial when suffering from colds." REV. S. J. P. ANDERSON, St. Louis.

"Almost instant relief in the distressing labor of breathing peculiar to Asthma. REV. A. C. EGGLESTON, New York.

"They have suited my case exactly, relieving my throat so that I could sing with ease." T. DUCHARME Chorister French Parish Church, Montreal.

As there are imitations be sure to obtain the genuine.

Agents for California, REDINGTON & Co., San Francisco. 14-1m

"CHIPPINGS."

During the last sixty years, while the popnlation of France has increased but 37 per cent., and that of England 121 per cent. (Prussia increasing but 79 per cent. in forty-five years), the increase in the United States has been 593 per cent.

It is said that fifty thousand of the best laborers in Lancashire and other manufacturing districts in England, thrown out of employment by the stoppage of the trade in cotton, would come to America if they had the means of doing so.

In a recent conversation with an American gentleman in St. Petersburg, Prince Gortschakoff, discussing the Emperor's policy, declared that the progress of Russia within the next two years would astonish the world.

The new comet discovered by Professor James C. Wilson, of Ann Harbor, January 13th, is said to be rapidly approaching the earth, and will soon be visible.

The city of Sacramento, according to a late report, contains ten miles of sidewalks.

The value of flax grown in Ireland last year was upwards of $20,000,000.

A cannage was brought into Napa, a few days since, from a ranch 14 miles distant, which is the largest ever seen in those parts. With all the refuse outside taken off, it measured 105 inches in circumference.

Diptheria is making such havoc in Lunenburg, Vermont, that there is not at present a single school in the town in operation.

A castor bean plantation is to be planted near Los Angeles, and a mill erected to press the castor oil.

The announcement that the steamer Sierra Nevada was lost, turne out to have been a false rumor.

The Digger Indians of California, it is generally supposed, have no idea of any religion of their own. This opinion, however, is quite at variance with the observations of an early visitor to this region, who wrote many years ago as follows:—"The Indians say their adorations to an evil spirit, who is supposed to preside over everything, and whose displeasure they wish to avert by worship. This spirit is believed to be supreme and unassisted by any inferior agents. They have a full conviction of a future existence, and expect to enjoy happiness after this life in some delightful island in the sky, which happiness, being measured by their present ideas, consist in sensual gratification."

California Slate Pencils.—We made a notice some few weeks since, of the fact that a kind of material was found on some portions of the sea coast of this State, which might be used instead of the ordinary slate pencil. A correspondent of the Monterey *Gazette* explains the true character of this material as follows:—I noticed not long since, in one of the interior papers, an article entitled "Natural Slate Pencils," or something like it. The writer went on to say that there is a sort of seaweed found on the Coast of California, that answered all the purposes of a slate pencil, etc. Those persons who live near the sea-shore, will probably know at once what is referred to as "natural slate pencils," but to those who live in the interior, and are not in the habit of seeing salt water, it may be interesting to learn that the slate pencils so called are the spines of the sea urchin, (or the sea egg as it is sometimes called.) It is an animal of the genus Echinus, and of the family Radiata, or star fishes. It is round and flatteued, like a large flat apple, with a thin shell over it, covered with movable spines two or three inches long, and not more than an eighth of an inch thick. These spines being movable where they are joined to the shell, the animal by this means is capable of locomotion. Sea-eggs are very common everywhere on this coast, and are eaten by many people. The spines may be used, and frequently are used, for pencils for school children to mark with on their slates.

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. The Mining and Scientific Press Patent Agency has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

Before Cutting the Leaves of this journal, stitch each No through the back, or fasten with a large pin, and you will have a paper in the most convenient form possible for reading or reference.

Miscellaneous Advertisements.

H. B. HINCKLEY, WM. E. WORTH. WM. A. FIELD

Fulton Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

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GRUSH & CO.,

Pattern and Model Makers.

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—ALSO—

WOOD WORK FOR ALL KINDS OF MACHINERY.

☞ Scroll Sawing Done to Order.

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GEORGE T. PRACY,

MACHINIST AND BLACKSMITH.

Steam Engine, Flour and Saw Mill, And Quartz Machinery, Printing Presses,

—AND—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED

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OPPOSITE MECHANICS' MILL,

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JOHN P. GALLAGHER..... .....JOSEPH H. WEED.

GALLAGHER & WEED,

BRASS AND BELL FOUNDRY

And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING, DONE WITH NEATNESS AND DISPATCH.

Church and Steamboat Bells, of all sizes, made to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks, also brass Padlocks and Shop Locks of various patterns, on hand and made to order. ☞ Particular attention given to casting Rudder Bruces and Ship Work in general.

☞ All Jobs promptly attended to.—Prices moderate. ☜

No. 125 First Street, opposite Minna, next door to Pacific Foundry.

[Removed from Oregon street, between Front and Davis.]

12tf

LEWIS COFFEY. J. S. RISDON.

LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

The only exclusively boiler making establishment on the Pacific Coast, owned and conducted by Practical Boiler Makers. All orders for New Work, the repairing of Old Work, executed as ordered, and warranted as to quality.

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MOYNIHAN & AITKEN,

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LEANDER RANSOM,

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HAVING BEEN CONNECTED WITH THE PUBLIC WORKS OF the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. Also

State Locating Agent,

AND AS SUCH HAVING THE SALE OF

600,000 Acres of State School Lands.

At the low price of $1,25 per Acre.

Terms—Twenty per cent in cash and the balance on a credit of several years.

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At the Golden State Iron Works,

First Street, San Francisco.

tf.

Boston Mastic Roofing.

We are prepared to fill all orders for roofing throughout the State, Mexico or Nevada Territory. The attention of miners and mill owners are especially called to this notice, it being the cheapest and most economical roofing in use.

Office 135 Montgomery Street, near Bush, San Francisco.

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WANTED,

Gold Quartz suitable for Cutting Jewelry.

By **FRONTIER & DEVIERCY.**

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MINERS' FOUNDRY

—AND—

MACHINE WORKS,

First street, between Howard and Folsom streets,

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Every description of Iron and Brass Machinery, the **Best** and **Most Economical**, manufactured in the State of California, will be furnished with dispatch at the Miners' Foundry and Machine Works, as:

Steam Engines and Boilers, Flour, Saw and Quartz mill machinery, Mining Pumps, Amalgamators, Retorts, Etc., Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections, designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities will be afforded ample facilities, free of cost.

All parties desiring accurate and highly finished drawings and Superior Machinery, at most reasonable rates are cordially invited to call before contracting elsewhere.

tf. HOWLAND, ANCEL & KING.

Vulcan Iron Works Company.

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Steam Engine Builders and Boiler Makers,

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Pumping, Hoisting, Mining and Quartz Crushing Machinery. Shoes and Dies of the hardest iron. Russia Iron Punched Screens, Steamboat Machinery, Saw, Flour and Sugar Mills. High and Low Pressure Boilers of all styles. Jonval and other Turbine Water Wheels with latest improvements.

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I STREET, BETWEEN FIRST AND SECOND STREETS, SACRAMENTO.

GOSS & LOMBARD.....Proprietors.

Manufacturers of Steam Engines, Machinery for Saw, Flour and Quartz Mills, Horse Powers, Windmills, Car Wheels, Suction and Force Pumps, Cast Iron Rifles and all kinds of House Castings, at reduced prices. Cus pipe of all sizes, and all kinds of Brass and Iron Steam Fittings, with Hemp and Rubber Packing, constantly on hand. Wrought Iron Work and all kinds of Brass Castings done to order.

We are the Sole Agents in this State for the celebrated Worthington Pump, an assortment of which we keep constantly on hand. We have just received from the East a fine assortment of Cast Iron Fence Patterns, suitable for yards, balconies, cemetery lots or graves. We shall continue to do our work in the best manner and at the LOWEST CASH PRICES, hoping thereby to receive a just share of public patronage. 1-3in

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A. S. HALLIDIE & CO.,

WIRE ROPE MANUFACTURERS.

Established 1857.

Office, No. 412 Clay street—Works, North Beach,

SAN FRANCISCO.

After seven years' use throughout the State of California and the Pacific Coast generally, we can confidently recommend Wire Rope for

HOISTING FROM DEEP MINES,
GUY ROPES FOR DERRICKS, &c.
STANDING RIGGING FOR SHIPS,
FERRY ROPES FOR FERRIES,
SASH CORD FOR WINDOW SASHES,
ETC., ETC., ETC., ETC., ETC., ETC.

It being Cheaper, Stronger, Lighter and More Durable than any other kind of Rope, and not stretching or shrinking by atmospheric changes.

MINING COMPANIES, by using it for Hoisting Purposes, save 66 per cent. on their outlay for other ropes.

Wire Fencing Strand,

For fencing large parcels of land—permanently, economically and expeditiously. Manufactured in any length desired.

Pamphlets containing weight, strength and price, forwarded free application to the Manufacturers.

WIRE SUSPENSION BRIDGES AND AQUEDUCTS

We are prepared to erect, of any span and capacity, and take pleasure in referring those interested to the many structures of this kind built by us in California, Oregon and British Columbia, of span from 200 to 400 feet. 3-3m

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WHEELER'S

Amalgamating and Separating Pans

It is acknowledged by all who have examined the principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.

The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metal arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the triturating, this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.

Where these Pans have been introduced and operated by the side of others on sands from the same vat, the Wheeler Pans have uniformly gained a large percentage of metals, over its competitors, as well as a still larger percentage in the amount of work performed.

*** These Pans may be seen in daily operation at the Miners, Foundry, on First street, San Francisco, where all interested are invited to call and examine for themselves.

uol6-tf ZENAS WHEELER.

To Quartz Miners.

All persons interested in mining machinery are invited to call at Donahue's Foundry and examine my improved Amalgamator. It is unquestionably superior to anything now known for amalgamating Silver and Gold. It works 1000 pounds at a time, and will amalgamate over three tons a day. By the motion of the revolving muller, the pulp is drawn through its centre and passes under it, between the grinding surfaces, to the circumference; from whence it passes again over the muller to the centre, through the holes and between the grinding surface to the circumference as before. Thus a constant circulation of the pulp is kept up, bringing the particles of ore again and again under the muller, and reducing the whole mass to an impalpable powder.

No quicksilver lies between the surfaces to be ground, but at the circumference and centre of the pan where the metal must pass through it as the pulp circulates.

A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S. Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.

sep21

It is Impossible for editors to know all the merits and demerits of their correspondence, consequently the reader must not receive the opinions of our contributors as our own. Intelligent discussion is invited upon all sides, and the evidence of any error upon our part will be received in friendship, and treated with respect.

Worth Considering.—Advertising has proved the medium of success to many of the most prominent business men of the world. Merchants, Inventors, Builders, Patentees, Manufacturers, Foundrymen, Machinists, and, in fact, all who wish to call the particular attention of the Mining, Professional, Mechanical and Industrial members of the community to their business, should not fail to advertise in the Mining and Scientific Press. The circulation of the paper is extensive, and has a wide range, reaching the most intelligent readers in every mining settlement of importance on the coast. A large number of copies are also sent East. Our terms are reasonable. "Live and help live" we believe to be a sensible motto.

How to make your Remittances.—In most of the mining towns, brokers will furnish checks on San Francisco at par, (or at a very slight advance) to those who wish to pay us for subscriptions, advertising, mining blanks, etc. When it is more convenient, money may be remitted by mail at our risk if the parties sending will register their letters. Money sent by mail is seldom lost if properly enclosed. An excellent method is that of opening the buyers of a card, placing the coins between the layers and sealing the edges together.

To Druggists and all Prescribing for Neuralgic and Nervous Cases.—Your attention is called particularly to the efficacy of WATTS' NERVOUS ANTIDOTE for the above. Feelings of humanity, independent of pecuniary considerations, would prompt you to recommend it in all cases of Neuralgic Pains, Face Ache, from defective teeth, and the General Wasting Away and Debility of the Nervous System, if you could have the assurance that this was what it is purported to be—THE GREAT RELIABLE TRANQUILIZER AND RESTORER OF THE SYSTEM. It has been repeatedly prescribed in cases of excessive drinking, on the verge of Delirium Tremens, and even while laboring under its distressing influence, with astonishing results. It contains no preparation of Opium or Valerian, and is never accompanied with the unpleasant sensation always experienced after taking successive doses of them. It is also the best Soothing Syrup in use. Patients have taken Watts' Nervous Antidote many months in succession, and experienced no unpleasant effect whatever—while the same continued use of many other popular remedies has completely shattered the system.

For sale, Wholesale and Retail, by SAMUEL ADAMS, U. S. Drug Store, corner of Pine and Kearny Streets, San Francisco. 6v8-2m

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Mechanical & Architectural Draughtsman,

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Drawings of Models made for parties applying for patents at Washington or London. mar23-tf.

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METALLURGIC CHEMIST,

— AND —

ASSAYER OF ORES, MINERALS AND METALS,

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Working Assays made on large or small quantities of Ore by the most approved methods, and instructions regarding the reduction of them, in general, given. Assaying of Ores, etc., taught, either by the wet or dry method. Silver Ores reduced by means of Electricity.

☞ Terms moderate, and all results guaranteed. 11v8-m

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Dealer in Lumber of all Kinds

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10 000 HAND SEWED GOLD AND SILVER ORE BAGS, 100 lbs each. 15,000 Chicken Gummy Pocket Bags, suitable for Copper Ore, 125 lbs each. For sale in lots, by

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AT THE SACRAMENTO ACRICULTURAL STATE FAIR FOR THE YEAR 1862.

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Machines, Mathematical, Optical and Philosophical Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.

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Office of the Pacific Metallurgical Office is removed to 509 Sacramento street. Having enlarged our works at North Beach, we are now enabled to reduce from 10 to 15 tons of Silver or Gold rock per day.

Gold and Silver ore, and Salphuret Assayers', or Silversmiths' sweepings reduced or purchased.

Copper Ores—Highest market rates advanced in cash, for Shipments. S. C. BRADSHAW, Agent,

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PIONEER FOUNDRY and MACHINE SHOP,

Lower Gold Hill,

Have Superior Facilities for Making

MINING & MILLING MACHINERY,

A COMPLETE SET OF MACHINE TOOLS WITH

PLANER,

ENABLES ME TO DO ALL KINDS OF

MACHINE WORK AT SHORT NOTICE.

RETORTS AND INGOT MOULDS,
STAMP SHOES AND DIES,
WHEELER, YARNEY AND HEPBURN
PAN SHOES CONSTANTLY ON HAND.

Plans, Specifications, and Drawings of all kinds of Mill and Mining Machinery made at short notice, by

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IMPORTANT TO MINERS.

MAGNIFYING GLASSES FOR EXAMINING QUARTZ.

MINING COMPASSES, WITH SIGHTS AND LEVELS.

BLOW-PIPES, GOLD SCALES.

POCKET COMPASSES, MAGNETS,

DRAWING INSTRUMENTS, in cases and separate pieces.

MARINE AND FIELD GLASSES.

EYE PROTECTORS. GALVANIC BATTERIES.

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The Largest Assortment on the Pacific Coast for sale by

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— AN ARTICLE —

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Orders from the Interior, accompanied with the Cash, will be promptly attended to. Price, $7; Postage paid, the price amounts to $7 50. 6v8-tf

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CERTIFICATES OF STOCK,

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Stock Ledgers, Transfer Books,

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AT LOW PRICES.

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Hardware, Building Materials

CARPENTERS' TOOLS, ACRICULTURAL AND MINING IMPLEMENTS, ETC., ETC.

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DESKS AND OFFICE FURNITURE OF ALL KINDS, FOR SALE BY

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OFFICE JOBBING, of all kinds, promptly attended to.

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Dealer in Clothing and Gent's Furnishing Goods,

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MEXICAN MINING STOCKS,

At No. 411 Clay Street, San Francisco.

Office of the Pena and La Marronena Silver Mining Companies, San Antonio District, Lower California.

All persons are invited to call and examine Ores from the above mines.

j1t WM. FAULKNER.

A New and Valuable Book.

Process of Silver and Gold Extraction, by Guido Kustel, Mining Engineer and Metallurgist, former manager of the Ophir Works, &c.; 350 pages octavo illustrated.

This admirable work has met with the highest commendations from the Press and Scientific men, as a clear and able exposition of the science as practised in California and Nevada Territory. It is written for the people in good plain English and finely illustrated.

Price—post paid—Cloth $6; Sheep $7.

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Mining Laws and Forms

Just published, by H. H. Bancroft & Co., being a compilation of the Statutes of this State relating to Mining Corporations, Assessments, etc., with a digest of decisions of the Supreme Court and Forms of the Incorporation of Companies. Compiled by B. B. Congdon. 12mo., flexible cloth. $1,50. For sale at all the Bookstores. sep14-tf

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Patent Cut-Off and Governor,

For Steam Engines.

127 of these Invaluable Machines

ARE NOW IN USE

In California and Nevada Territory, giving a perfectly regular motion and

Saving 20 to 75 per cent of the Fuel.

Steen's Improved Governor

Is the cheapest, simplest and quickest to act and least liable to get out of order of any Governor in use. It can be seen in operation at the Golden State Iron Works, at the Stone Breaker, foot of Montgomery Street and at the Sugar Refinery, 8th Street, San Francisco.

Steam Engines, Boilers, Pipes,

Hydraulic Presses, Shafting, Pulleys, Etc., Etc., bought and sold the best market rates.

Anti-Incrustation Powder,

A sure remedy for Scale in Steam Boilers, without injury to the Iron. In use for the past EIGHT years.

☞ Machinery Made and Repaired. ☜

— Refers to —

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And 2,000 others in the United States.

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The Pacific Monthly Magazine.

The only original magazine published on the Pacific coast.

EDITED BY LISLE LESTER,

Recently from the East, comes out in new type, new cover, and fresh in all its material and matter. This Magazine will be devoted to the Literature of the Pacific coast, and will equal any of the Eastern publications in variety, taste and class of its contributions.

The Editress is striving to make it a

HOUSEHOLD WORK.

A new story written by an Eastern lady of talent and renown, commences with the January number. All who wish to read "SHIMAH" must subscribe at once.

The Pacific Monthly now established on a permanent basis, it numbers among its contributors the best writers of this State, and offers to those who love a chaste, thoughtful and elegant style of literature, attractions superior to those of any other publication on this coast. Its aim will be to elevate the literary standard of this State, and give to the world a truthful picture of the life and literature of California.

The March number is to be illustrated with views around San Francisco.

The Editor's table is alone worth having.

The subscription rates are less than other works of a similar character. All orders promptly attended to.

Office room, No. 45 Government House, North West corner of Washington & Sansome Streets, San Francisco, Cal.

Terms: Per year, in advance $3 00; per year, if payment be delayed three months $4 00; Single copies 25cts; Clubs of five $12 00 Clubs of ten $20 00.

Owen's River Canal Company.

CAPITAL STOCK.....$1,000,000.

10,000 Shares.....$100 per Share.

A portion of this stock is now offered to the public, and recommended as an investment.

Full Paid and Unassessable Stock,

Also Assessable Stock, can be obtained of A. J. DOWNER & CO., the authorized Agents of the Company,

406 Montgomery Street.

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Secretary.....W. FISK HITCHCOCK.
Treasurer.....MONTGOMERY GODLEY.
Superintendent.....WILLIAM FLEMING.
Engineer.....J. E. CLAYTON.

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ISAAC SWAIN.....of A. J. Downer & Co.
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Office of the Company 328 Montgomery Street. j1tf

HEPBURN & PETERSON'S.

AMALGAMATOR.

The Subscribers would call the attention of the Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos. 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

nov8 3m* HEPBURN & PETERSON.

GEO. A. METCALF. D. S. HUTCHINSON

METCALF & HUTCHINSON'S

PHOTOGRAPHIC GALLERY,

650 Washington St. Three doors below Kearney, San Francisco.

Having refitted the above rooms the firm are now prepared to furnish the public with a superior style of Picture, at a lower price than ever before offered in the city.

CARD PICTURES.

As we have every facility for producing these beautiful pictures in all their different varieties, we have reduced the price to

THREE DOLLARS PER DOZEN!

Large sized Photographs $3—Extra copies $1 each.

AMBROTYPES in all Styles and Prices.

Old Pictures copied with care and accuracy, in any style desired. Particular attention paid to pictures of children.

Pictures painted in Oil or Water Colors, and retouched in Indian Ink by a competent artist. aug

Mining Notices.

Phœbus Gold and Silver Mining Company, Big Creek Mining District, Lander county, N. T.—Office No. 1 and 2 Government House, corner Washington and Sansome streets, San Francisco.—Notice is hereby given, that, in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the Phœbus Gold and Silver Mining Company, there will be sold at Public Auction, at the office of the Company, at 11 o'clock A. M., on SATURDAY, the 30th day of April, 1864, so many delinquent shares of the capital stock of the Phœbus Gold and Silver Mining Company, standing in the names of the following persons, as will be necessary for the payment of Assessment No. 1, of twenty cents per share, levied August 21st, 1863, and Assessment No. 2, for fifty cents per share, levied December 1st, 1863, and Assessment No. 3, for fifty cents per share, levied January 26th, 1864, together with costs of advertising and expenses of sale, unless said assessments and charges are previously paid; to the Secretary, at the office of the Company:

Names.	Shares.	Asst. No. 1–20c.	Asst. No. 2–50c.	Asst. No. 3–50c.
Adams, W. P	11			$5 50
Brown, B. R	13			6 50
Bland, Adam	10			5 00
Francis, D. B	7½		$ 3 75	3 75
Gray, B. J.	59		29 50	29 50
Gray, John	130		51 50	53 50
Grotjan, G. W	25		12 50	12 50
Goyan, F	10			5 00
Harvey, Joseph	25			12 50
Harvey, James	25			12 50
Irving, John	190	$38 00	95 00	95 00
Kasson, C. S	11			5 50
Nahl, H. W. A	11		5 50	5 50
Parsons, S. H	170	34 00	85 00	85 00
Phelps, T. O	11			5 50
Palmer, E. C	11			6 50
Perkins, J. L	25			12 50
Rogers, W. H	100			50 00
Rogers, Robt	5			2 50
Ralph, Thomas	25			12 50
Steere, Robt	25			12 50
Stout, E. N	25			12 50
Sherwood, Benj	10			5 00
Turner, Geo. R	23		11 60	11 50
Uhrig, C. A	23		11 50	11 50
Valentine, S. D	7½		3 76	3 75

S. C. GALLAHER, Secretary.
San Francisco, March 25th, 1864. 13-5t

Omaha Copper Company, Calaveras County.—Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Omaha Copper Company, there will be sold at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on SATURDAY, April 23d, prox., at 11 o'clock A. M. of that day, to the highest bidder for cash, in U. S. gold coin, so many shares of the capital stock of said Company, standing in the names of the following shareholders, as will be necessary for the payment of assessments duly levied thereon by the Board of Trustees, on the 28th of December, 1863, and on the 5th of February, 1864, of twenty cents per share each, together with the expenses of advertising and sale—to wit:

Names.	No. of Shares.	No. Asst.	Amt.
Z. Coffin	50	3	$10
S. Foster	5	3	1
I. L. Champlin	10	3	2
S. B. Wooster	15	3	3
F. A. Burch	10	2 3	4
S. C. Norton	10	2 3	4

By order of the Board of Trustees.
13-4t T. A. MUDGE, Secretary, 528 Clay street.

Victory Gold and Silver Mining Company, Golden City Gold and Silver Mining Company, Idaho Consolidated Gold and Silver Mining Company—Office, 645 Clay street, San Francisco, March 8th, 1864.—At a meeting of the Board of Trustees of the Victory, Golden City, and Idaho Consolidated Mining Companies, held at their office, March 3d, 1864, an assessment of 25 cents per share was duly levied on each and every share of the assessable stock of the above Companies, payable immediately, in U. S. gold coin, to the Secretary By order of the Board of Trustees.

13-td M. G. ELMORE, Secretary.

Millard Fillmore Gold and Silver Mining Company, Reese River District, Lander county, Nevada Territory.—An assessment of twenty-five cents per share was levied on the capital stock of the above named Company, on the 3d day of October, 1863, payable at the Company's office; also, an assessment of twenty-five cents per share was levied on the 21st of March, 1864, payable immediately as the Company's office, 305 Montgomery street, S. F., or to B Cruthers, Austin. N. T.

J. S. LUTY, Secretary.
San Francisco, March 24, 1864. 13-4t

Table Mountain Copper Mining Co.—Office, 645 Clay street, San Francisco, March 25th, 1864.—Notice is hereby given that an assessment (No. 5) of 50 cents per share was this day levied on each and every share of the capital stock of the Table Mountain Copper Mining Company, payable immediately, in U. S. gold coin, to the Secretary, or to J. M. Pike, Superintendent, Copperopolis. By order of the Board of Trustees.

13-tf M. G. ELMORE, Secretary.

Walipi Gold and Silver Mining Company, Moss Lode, San Francisco District, Arizona.—Notice is hereby given, that the Board of Trustees of the Walipi Gold & Silver Mining Company, at a meeting of said Board held March 21st 1864, levied an assessment of fifty cents on each and every share of the Capital Stock of said Company, said assessment payable immediately in Gold Coin to the Secretary at the Office of the Company, No. 620 Washington Street, Room No. 3.

13-5t W. AUGUSTUS KNAPP, Sec'y.

East Lynn Gold & Silver Mining Company, Inyo District, Tulare County,—Notice—The annual meeting of the Stockholders of the above Company, for the election of Trustees will be held at the office of the Company, 618 Merchant Street, San Francisco, on Monday, April 4th, 1864, at 4 o'clock P. M.

12-3t SAMUEL SMITH, Sec'y.

Lucretia Gold and Silver Mining Company, Summit District, Lander county, N. T.—Notice is hereby given, that at a meeting of the Board of Trustees of the above named Company, held February 13th, 1864, an assessment of twenty-five (25) cents was levied on each share of the capital stock, payable immediately, in gold coin, to the Secretary. H. C. KIBBE, Secretary.

Office, Lyceum Building, cor. Washington & Montgomery Sts.
San Francisco, March 18, 1864. 12v8

JUST PUBLISHED!

THE MINING DIRECTORY,

Containing the names of Secretaries and of Mining Companies having their place of business in San Francisco, and the location of their offices.

☞ PRICE.....50 CENTS.☜

Postage prepaid, when ordered by mail, without additional cost.

DEWEY & CO., Publishers,
Government House, San Francisco.

Potomac Gold and Silver Mining Company, Reese River Mining District, Lander county, N. T.—Office 509 Clay street San Francisco.—Notice is hereby given, that, in accordance with the laws of the State of California and an order duly made by the Board of Trustees of the Potomac Gold and Silver Mining Company, there will be sold at Public Auction, at the salesroom of Jno. Middleton & Son, at 12 o'clock, noon, of MONDAY, the 2d day of May, A. D. 1864, so many shares of the capital stock of said Company, standing in the names of the following persons on its books, as may be necessary for the payment of Assessment No. 1, duly levied thereon August 24, 1863, and Assessment No. 2, duly levied thereon January 25, 1864—each assessment twenty-five (25) cents—together with the cost of advertisement and sale, unless the said assessments are previously paid, with costs accrued:

Names.	Asst. No.	Cert.	Shares.	Amt.
A. Faust	1	2	16	5	$ 2 50
Robert Lewy	1	2	8	100	50 00
do	1	3	20	25	12 50
Leslie Bayley	1	2	31	5	2 50
R. Lewy		2	37	100	25 00
do		2	38	160	40 00
C. W. Roberts		2	22	25	6 25
J. H. Hardy		2	25	50	12 50
do		2	26	20	5 00
do		2	27	20	5 00
do		2	28	10	2 50

GEO. A. BALL, Secretary.
San Francisco, April 2, 1864. 14-4t

Desert Mining Company, Flowery District, N. T.—Notice is hereby given, that on SATURDAY, the twenty-third day of April, 1864, at 12 o'clock, M., there will be sold at auction, at the salesroom of John Middleton & Son, No. 400 Montgomery street, San Francisco, a sufficient number of shares in the capital stock of the Desert Mining Company, standing in the names of the following persons, to pay the assessment (No. 10) of one dollar per share, levied January 20, 1864, together with the expenses of advertising and sale, unless the same shall have been previously paid, viz:

NAMES.	CERTIFICATE.	SHARES.	AM'T.
Bayerque, R	296	10	$10
Bayerque, R	319	5	5
Budd, W. C	304	5	5
Budd, W. C	305	5	5
Budd, W. C	345	5	5
Budd, W. C	346	20	20
Budd, W. C	347	20	20
Budd, W. C	348	20	20
Budd, W. C	349	20	20
Budd, W. C	350	20	20
Cahill, Edward	274	25	25
Cahill, Edward	303	70	70
Critcher, Henry	300	10	10
Critcher, Henry	317	10	10
Cullen, Jeffrey	151	25	25
Cullen, Jeffrey	154	25	25
Davis, G. H	352	25	25
Donohue, Ralston & Co	271	20	20
Fitch, J. R	360	50	50
Hall, R	343	5	5
Hay, A. M	289	5	5
Hall, O. C	329	5	5
Hedley, P. D	353	12	12
Homfray, R	250	10	10
Hyman, P. C	228	20	20
Hyman, P. C	229	20	20
Ireland, L. F	288	10	10
*Lyon, J. H	5, 6, 22 to 28	100	200
Milliken, I. F	297	25	25
Moody, W. E	251	10	10
Morgan, George J	273	10	10
Morrison, J. C	290	5	5
Nesmith, J. F	361	25	25
O'Brien, John	323	3	3
O'Brien, John	326	12	12
Reinhart, E	330	20	20
Spiers, C. D	299	25	25
Schmiedell, Henry	356	5	5
Stoutenborough, C. H	265	10	10
Tobin, R. J	134	10	10
Van Tassell, T	221	10	10
Watson, N. A	140	5	5
Young, D. W	325	20	20
Young, D. W	339	5	5

By order of the Board of Trustees.
DAVID WILDER, Secretary,
No. 240 Montgomery street, San Francisco.

* NOTE.—100 shares in the name of J. H. Lyon will be sold subject to assessment No. 9, of one dollar per share, levied March 12, 1863.
12v8-5t DAVID WILDER, Secretary.

Albion Gold & Silver Mining Company.
Asia Gold & Silver Mining Company.
Jupiter Gold & Silver Mining Company.
Live Yankee Gold & Silver Mining Company.
St. Paul Gold & Silver Mining Company.—Notice is hereby given, that at a meeting of the Board of Trustees in each of the above named companies, held at their office in San Francisco, December 19, 1863, an assessment of fifty cents was levied on every share in the capital stock of each of said companies, payable immediately, in United States coin, to

DAVID WILDER, Secretary,
12v8-4t. No. 240 Montgomery street.

Maryland Silver Mining Company.
Imperatrice Silver Mining Company.
Belle Silver Mining Company.
Santa Maria Silver Mining Company, Location: Santa Fe District, Lander County, Nevada Territory. The regular Annual Meetings of the Stockholders of the above Companies for the election of officers, and the transaction of other business, will be held on Friday, the Fifteenth day of April, 1864, at the office of the Secretary, No. 305 Montgomery street.

12v8-4t J. S. LUTY, Sec'y.

Poindexter Silver Mining Company, Reese River Mining district, N. T.—Notice is hereby given, that at a meeting of the Trustees of the above named Company, held the 20th of October, 1863, an assessment of Fifty cents per share was duly levied on each and every share of the Capital Stock of the Company; and at a meeting of the Trustees held Feb. 27th, 1864, an assessment, No. 2 of fifty cents per share was duly levied on each and every share of the Capital Stock of said Company, payable immediately to the Secretary, in U. S. Gold Coin, at his office, No. 35 Government House, or to the Agent, WM. ALPHENS SMITH, at Austin, N. T.

San Francisco, March 1st. (10v8-1m) JAS. C. NORRIS, Sec'y.

Bodie Consolidation Gold and Silver Mining Company, No. 2.—Office, southwest corner of Clay and Montgomery streets, San Francisco.—Notice is hereby given, that in accordance with an order made on the 4th instant, by the Board of Trustees of the Bodie Consolidation Gold and Silver Mining Company, No. 2, there will be sold at public auction, by Jerome Rice & Co., at their salesroom, No. 327 Montgomery street, San Francisco, on WEDNESDAY, the 27th day of April, A. D. 1864, at 11 o'clock A. M., a sufficient number of shares of the capital stock of said Company, standing in the names of the following persons, as may be necessary to pay the assessment levied January 14th, 1864, together with the expense of advertising and sale, unless said assessment and charges are previously paid:

		SHRS.	ASS'T DUE.
William Ayres, Sr.	Cert. 482, 483, 484, 485, 486.	50	$25 00
	Shrs. 10, 10, 10, 10, 10.		
Miles Chapin	Cert. 129, 130, 312, 313.	45	22 50
	Shrs. 15, 10, 10, 10.		
G. S. Chapin	Cert. 305, 306.	50	25 00
	Shrs. 25, 25.		
A. L. Chamberlin	Cert. 358.	25	12 50
L. H. Dearborn	Cert. 509.	24	12 00
Thomas Gardner	Cert. 288.	20	10 00
James Laug	Cert. 518.	15	7 50
Jas. F. McFarlane	Cert. 116, 118, 121, 122, 124, 126.	100	50 00
	Shrs. 50, 10, 10, 10, 10, 10.		
M. S. Martin	Cert. 380.	250	125 00
L. W. Newell	Cert. 435, 436, 451, 452.	65	32 50
	Shrs. 25, 15, 15, 10.		
Jonathan Peci	Cert. 542, 543, 544.	125	62 50
	Shrs. 50, 50, 25, 25.		
Edward Rondel	Cert. 412, 413.	12	6 00
	Shrs. 7, 5.		
W. D. Robinson	Cert. 508.	25	12 50
C. H. Stoutenborough	Cert. 364.	20	10 00
Jesse D. Spray	Cert. 515.	25	12 50
Edward Donahue	Cert. 512, 514.	50	25
	Shrs. 25, 25.		

By order of the Board of Trustees.
A. L. CHAMBERLIN, Secretary.
San Francisco, March 12, 1864. 12v8-5t

Samantha Consolidated Gold & Silver Mining Company.
Lewis Consolidated Gold & Silver Mining Co.
Memphis Gold & Silver Mining Company.
John J. Crittenden Gold & Silver Mining Co.
Grafton Gold & Silver Mining Company.
George Leet Gold & Silver Mining Company.
Meteor Gold & Silver Mining Company.
Pontiac Gold & Silver Mining Company.
Hyack Gold & Silver Mining Company.
Butler Gold & Silver Mining Company.
Enterprise Gold & Silver Mining Company.
Essex Gold & Silver Mining Company.
Tehama Gold & Silver Mining Company.
Crown Point Consolidated Tunnel Mining Co.
Nicolaus Gold & Silver Mining Company.
Scottish Chief Consolidated Tunnel Mining Co.

Notice is hereby given that at a meeting of the several Boards of Trustees of the following and above named Companies, held in the City of San Francisco on the 19th day of October, A. D. 1863, the following assessments were duly levied, payable immediately to the Secretary in U. S. Gold Coin at his Office No. 509 Clay st., San Francisco, or to S. F. AMBLER, Austin, N. T.

NAMES OF COMPANIES.	ASSM'T PER SHARE.
Samantha Consolidated O. & S. M. Co	25 cts.
Memphis G. & S. M. Co	25 cts.
Lewis Consolidated O. & S. M. Co	25 cts.
John J. Crittenden G. & S. M. Co	25 cts.
Grafton G. & S. M. Co	25 cts.
George Leet G. & S. M. Co	40 cts.
Meteor G. & S. M. Co	20 cts.
Pontiac G. & S. M. Co	20 cts.
Hyack G. & S. M. Co	20 cts.
Butler G. & S. M. Co	20 cts.
Enterprise G. & S. M. Co	20 cts.
Essex G. & S. M. Co	20 cts.
Tehama G. & S. M. Co	25 cts.
Crown Point Consolidated Tunnel & M. Co	50 cts.
Nicolaus G. & S. M. Co	10 cts.
Scottish Chief Consolidated Tunnel & M. Co	10 cts.

All the mines of the above named Companies are located in Reese River Mining District, Lander county, Nevada Territory. By order of the Board of Trustees. D. B. FRANCIS, Sec'y.
Office, No. 509 Clay street. 11v8-4t

Bodie Bluff Consolidation Mining Company, Bodie District, Mono Co., Cal.—February 27th, 1864.—At a meeting of the Board of Trustees of the above named Company, held this day at the Secretary's Office in the town of Aurora, the following among other proceedings were had, viz:—*Resolved*—That an assessment No. 3,) of one dollar upon each share of the Capital stock of the aforesaid Company be and the same is hereby levied, payable immediately in U. S. Gold Coin, or its equivalent in Legal Tender Notes, to the Secretary, at No. 614 Montgomery Street, San Francisco. *Provided*—That all the Stock upon which the assessment (No. 2,) of Fifty cents per share, levied June 13th, 1863, has been paid, only fifty (50) cents per share shall be paid under this assessment.

Resolved.—That the Transfer office of the Company be removed to San Francisco. By order of the Board of Trustees.

11v8-5t F. K. BECHTEL, Sec'y.

Pride of Nevada Mining Company, Reese River District, Nevada Territory.—Office, No. 620 Washington St., San Francisco.—Notice is hereby given, that the Board of Trustees of the Pride of Nevada Mining Company at a meeting of said Board, held March 8th 1864, levied an assessment (No. 1,) of fifty (50) cents on each and every share of the assessable stock of said Company, said assessment payable immediately in U. S. Gold Coin, to the Secretary, or to A. E. SHANNON, Superintendent.

11-4t H. B. CONGDON, Sec'y.

Billet Gold & Silver Mining Company, Gen. Scott Ledge, Augusta Mining District, Lander County, N. T.—Notice is hereby given that at a meeting of the Board of Trustees of this Company, held this 5th day of March, A. D. 1864, an assessment of Twelve and one half (12½) cents per share was levied upon each and every share of the Capital Stock of the Company, payable immediately to the Secretary, in U. S. Gold Coin, at his Office, No. 509 Clay Street, San Francisco, or to S. F. AMBLER, at Austin, N. T. By order of the Board of Trustees. D. B. FRANCIS, Sec'y.

11v8-4t

Sonoma Ledge Silver Mining Company, Reese River District, N. T.—Notice is hereby given that at a meeting of the Board of Trustees of the Sonoma Ledge Silver Mining Company, held at their office in San Francisco, March 12, 1864, an assessment (No. 4) of one dollar, was levied on every share in the capital stock of said company, payable immediately, in United States coin, to Julius Sichel, at Austin, N. T., or to DAVID WILDER, Secretary,
12v8-4t. No. 240 Montgomery street.

AND SCIENTIFIC

Mining Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

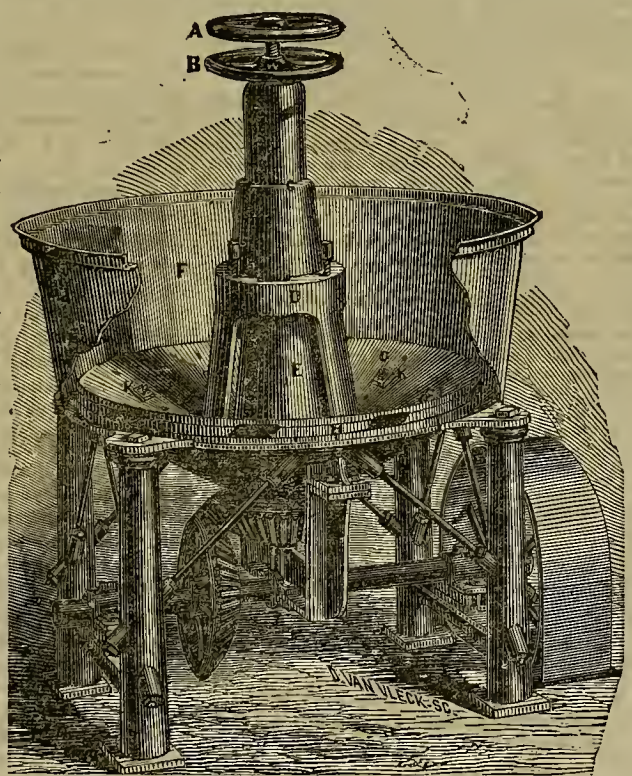
VOLUME VIII. SAN FRANCISCO, SATURDAY, APRIL 9, 1864. NUMBER 15.

Contents:

No. 15—April 9, 1864.—Hepburn & Peterson's Amalgamator—Illustrated; Mental Growth of San Francisco; Owens River; Reese River Bullion; Augustin's Method of Extracting Silver from its Ores by the Use of Salt; Rock Springs District—Colorado; Mining Gossip; An Act Concerning Assessments and Advertising Delinquent Stocks; Mechanical Department—The Economy of Fuel and Heat, "An Enquirer" Once More; Patent Department—James' Gas-Lighting Invention, Drying Coal by Centrifugal Force; Desulphurizing; Glasgow School of Mines; Mining Share Market; Washoe Stock Sales; City Sales; Incorporations; Whitman Mine; Letter from Austin.

HEPBURN & PETERSON'S AMALGAMATOR.

The annexed engraving is a representation of Hepburn & Peterson's Amalgamator. The chief object of the inventors of this amalgamating pan has been to devise some means to obviate the inconveniences frequently met with in other pans and arising from a tendency of the sands to pack when in a certain condition, as it becomes necessary to stop the running of the machine. Another desirable object was the production of a pan which would admit of working the sands in a more compact state—that is, by the admixture of less water, whereby the reduction is made to progress much more rapidly. These objects Messrs. Hepburn & Peterson claim to have effected, in an important degree, by the peculiar construction of the bottom of their pan, which, as will be observed by the annexed illustration, is inclined toward the centre, or shaped like an inverted cone—the dies being affixed to this cone-shaped surface and the mullers made to correspond. The pulp being thrown into the pan, and the mullers set in motion, their action is such as to throw that portion of the pulp which finds its way between the grinding surfaces to the circumference, whence, by gravitation, it descends to the centre, and thence again beneath the mullers. A constant and active current is thus established, which cannot be done by the same motion when set in operation on a level surface. It will thus be seen that all necessity for wings or scrapers is obviated, which are oftentimes a hindrance to starting the pan after it has become packed from stopping, especially when it is charged with coarse sands, but slightly advanced towards a pulpy consistency. There are no conditions, in ordinary working, where this pan may not readily be started without removing or thinning down the pulp, by simply elevating the mullers a trifle by a convenient set screw. These pans were first brought out last summer, since which time they have become quite extensively introduced. They are much more simple in their construction than most pans in use. They may be seen in operation at the Gould & Curry mill, Silver State Reduction Works, the Zephyr Flat mill, Pioneer mill, Washoe; also at the Belden and Gregory's mill in Esmeralda. The pans are manufactured at the Vulcan Foundry, in this city, where they can be examined at all times. Messrs. Hepburn & Peterson have also a Separator, which is employed for separating the amalgam and quicksilver from the sands after the latter have been thoroughly reduced in the pans.



HEPBURN AND PETERSON'S AMALGAMATOR.

During the month of March merchandise to the value of $1,026,880 was exported from San Francisco.

Lecture on the Mining and Chemistry of Metals.—Professor Price will give a lecture on the above named subject, at Dashaway Hall, in this city, on Wednesday evening next. This lecture is the closing exercise connected with the Professor's first class in mining, which has been holding its sessions at the rooms of the Powell Street High School. Tickets, fifty cents, to be had of any of the members of the class, and at the principal bookstores. The lecture will be given with direct reference to the bearing which the subject has upon practical mining. We trust it will be but the commencement of a series upon kindred subjects, which may hereafter be given by the Professor and others qualified to instruct in the various departments of mining education.

[Written for the Mining and Scientific Press.]

Mental Growth of San Francisco.

BY A SPECIAL CONTRIBUTOR.

In pursuance of the plan heretofore adopted in this series, we now proceed to a higher grade of facts, or such as we find developed on the intellectual plane. And here the growth is even more astonishing than that of the merely physical forces. Going back to first principles, we find the elementary power of all civil progress in

THE PRESS;

And to this great engine of universal intelligence, let us give our present attention. The first paper or periodical of any kind, ever issued on the Pacific coast, was *The Californian*, a weekly newspaper, which first appeared at Monterey, August 15th, 1846. At first, a small portion of the sheet was printed in Spanish, for the benefit of the natives; but the Anglo-Saxon power dominated here, as elsewhere, and the English language soon monopolized the whole sheet. Commodore Stockton is said to have originated this paper, though it was published and edited by Messrs. Colton & Semple. That they had formidable difficulties to contend with, will appear from the fact that the type used was a Spanish font, picked up in an old cloister, and the paper was such as is used for wrapping cigars. As there is no "w" in the Spanish alphabet, two v's (vv) were used instead, giving a ludicrous appearance to the poor and primitive sheet, only that there is a look of such earnestness in its wan little face as we could hardly feel like laughing at under any circumstances. This was the father of California newspapers. Nor should we, like smart Sophomores, ridicule, or in any way make light of the uncomely garb of our paternal relative in the paper line, but rather say to ourselves that the spirit which could achieve this, with such a vast disproportion between means and ends, has shown us that there are no bounds to its progress, and no limits to its power.

This capability began to make itself felt in the very next step. The California *Star*, the first paper published in San Francisco, though a small sheet of four pages, fifteen inches by twelve of type, exhibits a very creditable degree of progress, in manner, matter and arrangement. The first number appeared January 7th, 1847, being published by Mr. Samuel Brannan, and edited by Dr. E. P. Jones. Both of these papers, having come to a sudden close by the desertion at once of patrons and printers, in the overwhelming mania of the gold fever in 1848, remained latent for the space of five months. November 18th of that year they were revived, and formally united, under the title of the *Star and Californian*, and from this sprang the *Alta California*, the first number of which appeared January 4th, 1849.

And now, from these small beginnings, what have we? Eight daily papers, twenty-seven weeklies, six monthly and two tri-weekly papers are issued in this city. We have also seven monthly periodicals and three annuals. Of these publications, seven are literary, four political or partizan, eight independent, six moral and religious, four are devoted to agricultural and mining interests, one is mercantile, two are medical and one nautical. Three are in German, three in French, one in Italian and one in Spanish. Other nationalities have also their organs of representation. The Irish have two papers, the Mexicans two, and the Jews two. Of these publications, those which are devoted to some specific object present

highly honorable examples, and in this order should be observed the *Wine, Wool and Stock Journal*, which is an elegant monthly magazine, of intrinsic and substantial value. Nor should the brave-hearted Lisle Lester be passed by without a word of kind encouragement and good cheer. All may not know that her arduous labor involves the double task of providing means to sustain her periodical, as well as power to superintend and edit it. Being thus, to a considerable extent, drawn away from it, mistakes and imperfections sometimes creep in, which, by and by, she will not be subjected to.

It may be safely affirmed that there is no community of equal numbers on the face of the globe which exhibits such an array of journalistic and literary ability. The weekly papers of the State are characterized by an extraordinary amount of talent. The daily press exhibits great vigor and energy, while the interior and provincial papers are marked by uncommon raciness, originality and vigor.

Yet it must be confessed that, with all this magnificent array, which, in its varied characters of spirit, form and language, drops from the press daily, weekly, monthly, we have no proper literature—nothing that corresponds with the *Atlantic Monthly* and the best periodicals of the British press.

A true literature is like a perfect human structure, where all the powers and faculties of the mind move and act harmoniously. It is the spirit and essence of all science—all art—clothed with a finer organism, and enriched with a more excellent beauty. Hence it must represent all the faculties of the mind, the affectional, the reflective and the imaginative. But, in our so-called literary papers, for the most part only the affectional faculties are represented. Our literature, almost so far as we have any, is eminently sensational. And, let me now ask, with all our power of production and appreciation, why is this? It is because the Press has suffered the sceptre to depart out of its hand. It is unmindful of its divine prerogative. It cannot, or will not, exercise its own proper function. Instead of leading the public mind, and forming from high models the public taste, it allows itself to be led by a depraved and sickly sentiment.

Again, I ask, why is this? Not surely because we have not talent or even genius among us that would be equal to the most excellent effort; not because there is not magnanimity enough to support our own literature at the necessarily higher prices; not because we have not appreciative power enough, to welcome and foster it, but because there has not yet appeared a literary publisher at once broad, strong, rich and free enough to give the people what their natural constitutions need, rather than what their puling appetites at once crave and sicken over. When there comes such a one—and he *will* come—a new fountain of intelligence will be unsealed, out of which the ministering genius and the appreciative taste shall alike draw and drink. Then a new era, important as any that have marked our rapid and brilliant history, will have dawned on the Pacific coast.

LIBRARIES.

The oldest and largest of these is the Mercantile Library, which now occupies convenient and commodious rooms on Montgomery street; but funds are constantly accumulating for building a larger and more eligible structure for its sole occupation, and with plenty of room for future growth. The Association was organized January 24th, 1853, since which time it has partaken of the rapid growth of everything around it. It now numbers 1,435 members, of whom 107 are life members, 71 honorary members, and 1,257 subscribing members. The library contains about 16,620 volumes, exclusive of lost, worn-out and missing books; about 1,514 having been added during the past year. The library is well arranged and classified, and has a catalogue both in analytical and alphabetical form. That the San Franciscans are a reading people is shown by the fact that by this library alone 35,702 volumes were loaned out during the last year. This noble institution speaks well of the large and honorable body from whom it originated—the merchants of San Francisco.

ODD FELLOWS' LIBRARY ASSOCIATION.

This library was organized December 30th, 1854, with about 100 volumes. It now contains over 10,000 volumes, among which are a large number of rare and valuable works on the history of this coast. It is doubtful if so fine a collection of works on this subject can be found in any other library. The greater part of the works of the old Spanish writers on our local history have been gathered with much care and research, and form a very valuable collection. Agents are now employed by the Association both in the Atlantic States and in Europe, collecting all that is extant upon this important and interesting subject.

Connected with this library is a reading room, where all the journals of the day are to be found constantly on file, so that an odd hour may be spent there, not only pleasantly, but profitably. It has also an extensive cabinet of valuable curiosities, embracing various specimens, illustrating the mineralogy, botany, conchology, ornithology, entomology and zoology of California. It is, in fact, a miniature museum, enriched by the wonderful resources of our Pacific home.

The library and cabinet are valued at upwards of $20,000. As this flourishing institution is supported solely by Odd Fellows, it speaks well for the literary taste of the Order. There has been issued during the past nine months (the library was closed three months on account of removal) 3,871 volumes. Among the rare and valuable works in this library may be mentioned Audubon's "Birds and Quadrupeds of North America," 15 volumes, three of which are of very large size; Lord Kingsborough's "Antiquities of Mexico," 9 volumes, text and colored plates, in imperial folio; a New Testament, printed at Rheims in 1532; a Book of Sermons, printed in 1480, and numerous other antique and valuable works, which the curious in the literary world can inspect for themselves.

LIBRARY OF THE MECHANICS' INSTITUTE.

There is no surer index of the strength and general capacity for culture among any people than the degree of taste developed among the working classes, and there is no more honorable testimony of this taste anywhere than we find in this library. And we do not judge of this matter merely by the size of the collection, but by the character of the books. Here are nearly 6,000 volumes of scientific and standard works, which are handsomely arranged in the fine large reading room, where the members may be seen at all hours of the day freely availing themselves of their collected treasures. Here, also, we find a cabinet containing several hundred specimens, illustrative of the different branches of natural history, with models of machinery, and many other rare, interesting and curious things. This library occupies the main hall of the fine, large and really elegant building, erected for its reception by the Association, on California street above Montgomery.

YOUNG MEN'S CHRISTIAN ASSOCIATION.

The selection of this library reflects much credit on the members. Perhaps there are few collections of 3,000 volumes that involve so great variety, and so large a proportion of interesting and valuable works. Of these, about 600 are religious, 222 biographical, 220 historical, 65 practical, 61 miscellaneous and 143 travels, including sermons, classics, fiction, the drama, philosophy, science and art, with bound magazines and periodicals. About 1,500 books are taken out annually, which indicates a large amount of literary and scientific interest, and shows that the end of the Association is being answered in the "moral, social and intellectual improvement of young men, of all denominations, by means of a reading room, supplied with all the religious and secular papers, magazines and periodicals, domestic and foreign." There is another important end, not perhaps sought, but yet attained, in this harmonious fusion of all faiths, which is thus invited. Broad and beneficent ideas of Christian tolerance and fraternal feeling are thereby cultivated, which cannot fail to wear away the harsh and corrosive angles of the old sectarianism. The third Monday of each month is set apart for debating and literary exercises, open to all; and a prayer-meeting, to which all of every denomination are made welcome, is held at the rooms, No. 629 Washington street, every Saturday evening.

The remainder of the libraries will be noted in the next number.

BOILER EXPLOSION IN COLORADO.—The steam boiler on the Gregory Lode, No. 2, recently exploded with a violence which sent it upward through the roof of the engine house and landed it some 300 feet distant, turning end over end by the force with which it struck the ground. Three men were slightly injured—none seriously, although the entire neighborhood was terribly startled by the crash and acrobatic movements of the huge iron cylinder.

INCREASE OF WEALTH IN SAN FRANCISCO.—It is estimated that the increase of the assessment roll of this city, for the present year, over that of last, will reach $19,000,000, which will be an improvement of 30 per cent. in one year! Eighty-five millions is set down as the present amount of taxable property in San Francisco. The assessment rolls of most places in the interior of the State will probably show a slight falling off.

OWENS RIVER.—The reports from both the mine, and the valley of Owens river are very encouraging. Hundreds of families, attracted by the favorable reports with regard to the climate and agricultural capacities of this region, are flocking thither from the less promising portions of the San Joaquin and Tulare valleys. The prospect of improved communication and cheap supplies thus shadowed forth appear to be operating as an additional stimulus to the miners in the neighboring mountains to push forward, with redoubled vigor, in the work of opening up their claims. Parties who have recently visited this office from those mines, have exhibited specimens to us and submitted assays, which, taken in connection with the accounts they and others gives leave no room to question the ultimate value of this region. We gather the following items from the Esmeralda *Daily Union*:—

The Union mill is running night and day on rock from the Eclipse. This company have made a rich strike in their mine. Exceedingly rich specimens of ore are being brought in from White Mountain. The rock shows virgin copper, and in some cases native silver is found with the copper. The Drummer Boy lead is turning out very rich gold rock, resembling the Santa Rita. The San Carlos Co. are pushing their mill forward with energy. Buildings are going up at San Carlos and Bend City. At the former place they are burning brick and lime.

Mr. Merriam, formerly of San Francisco, has brought out a photographing apparatus, and will take views of the towns, mills, etc. The sawmill at Big Pine is finished, and will soon be at work. Messrs. Slocum and Bell of San Carlos, are the proprietors. It is extremely well built, and is expected to furnish lumber in quantities soon. Fire clay, suitable for crucibles, fire-brick and the lining of furnaces, is found in great abundance in the neighborhood of Fleta Canon.

IMPORTANT TO VOTERS.—By the recent decision of the Supreme Court, the fact is established that an elector cannot vote outside of the district or ward in which he resides. Heretofore, for State officers, men have voted wherever they might have been, within the State on election day, and for county officers anywhere within the county. But by an especial act of the late Legislature, passed just previous to its adjournment, "soldiers" are allowed to vote wherever they may be, if within the limits of the State. This distinction between citizen soldiers and mere travelers is certainly in accordance with reason and justice. The soldier is away from his home on urgent and mandatory business of the the State: while the traveler, being abroad on private business or pleasure, is deprived of his elective franchise by his own voluntary act.

REESE RIVER BULLION.—The Territorial *Enterprise* of March 29th, notices thirteen bars of bullion, the product of one week's crushing by the Oregon mill, of ore from the North Star claim, in Reese River district. These bars weighed 6,747 ounces, and were estimated at the value of $7,574.92. They were of a most beautiful appearance, being nearly pure silver, much more so than the bullion from the mines in other portions of the Territory, which generally contains a considerable per centage of gold. The bars were assayed by Theall & Co., Austin, and not one dollar in gold was found in the whole thirteen bars. We are not aware of any other mine in the Territory that yields SILVER so nearly approximating to purity.

HOWLAND'S AMALGAMATOR.—This amalgamator, a Yankee improvement on the Freiberg barrel, appears to be winning its way into favor with the silver miners. Quite a number of these machines are now in successful operation. One of the largest size has recently been shipped to Hildreth's mill, Austin, Reese River. They are manufactured at the Miners' Foundry, in this city, one of the proprietors of which, Mr. Howland, is the inventor.

THE Mormons are much troubled at the constant irruption of Gentiles among them. The latter are increasing so fast that in a few years the saints will be outnumbered or remove to some other country.

Augustin's Method of Extracting Silver from its Ores by the Use of Salt.

The following is the most full and intelligible description of Augustin's Method of Extracting Silver with Salt Water, which we recollect to have met with. This description was written at Paris, in December, 1860, by Dr. R. H. Lamborn.

No metallurgic process springs like Minerva full grown and perfect from the brain of the inventor. Many years of experience, and the labor of many vigorous minds, have been necessary to bring some of our simplest processes to the efficient condition in which we find them. The method of Augustin, although it is sometimes considered as having inaugurated a new era in the treatment of silver ores, forms no exception to the general rule. It has a genealogy as long as that of a peer, which if any space permitted it would be interesting to trace back step by step. First to the system of amalgamating the copper matte, a long time in use at Mansfield, with which it has several points of resemblance, then to the European plan of amalgamation in casks, as introduced by Gellert at the Freiberg works in 1790, then back a decennium to the region at Schemnitz, where Born amalgamated Hungarian ores in copper kettles, afterwards—a long step—to the cordilleras of South America were Bartholomè de Medina, in the middle years of the fifteenth century invented the American system of amalgamation in heaps. This extended investigation would, however, be inconsistent with my present object, and hence we will pass at once to a consideration of the method of Augustine as is at present in use. The European plan of amalgamation, as is well known, consists of three chief processes. 1st. Converting the silver in the ore or product into chloride, by roasting. 2d. Decomposing this chloride and dissolving the silver produced in quicksilver. 3d. Evaporating the quicksilver and thus obtaining the silver in an isolated condition. Augustine retained the chlorizing roasting and introduced a new solvent in place of the expensive quicksilver, and a new plan for obtaining the silver in a separate condition. It is a fact long known to chemists, and, I believe, first noticed by Wetzler, who recorded it simply for its scientific value, that common salt when dissolved in water forms a fluid that has the power of taking chloride of silver into solution, a power that pure water does not possess in the slightest degree. The amount of chloride of silver that brine will take up has been made a subject of investigation by modern experimenters, and it has been discovered to depend upon the quantity of salt present and the temperature. Thus at 32° an almost insensible amount is dissolved, at 50° 0.0017 of the weight of common salt present will be taken up, and at 212° its capacity has increased to 0.0668 of the salt in the brine. Upon this strange property of salt water rests the fact that the ocean is a vast reservoir of silver, containing, according to the careful experiments and calculations of French chemists, not less than 2,000,000 of tons of the precious metal. Upon this same property of salt water rests the metallurgic process introduced by Augustin. In outline it consists:—1st. In preparing the ore or product containing the silver, for roasting, by grinding it to a fine powder, and then subjecting this powder to treatment in a reverberatory furnace with an addition of common salt, by which means the silver is converted into a chloride. 2d. In dissolving the chloride of silver in the roasted ore by means of hot concentrated brine and conveying it in solution to proper vessels for precipitation. 3d. In precipitating the precious metal in the form of cement silver by the agency of metallic copper, and in refining the silver so produced, for the mint.

At Freiberg, in Saxony, where I had an opportunity of studying this method practically, it is employed for extracting silver from a rich copper *matte*, that is obtained from cupreous silver ores in the course of the peculiar treatment known as "common lead smelting."

The cupola furnaces produce, beside the *rich lead*, which is sent to the process of cupelling, a sulphide of lead, iron, copper, silver, &c., which is concentrated by repeated fusions until most of the lead has been collected as rich lead, most of the iron passed into the slag, and a sulphide of copper, iron and silver obtained, which in the year 1859 contained an average of 69 per cent. of the first named metal, and 0.42 per cent. of the last.

This *matte* or *regulus* is broken into fragments by hand, and pounded to a fine powder beneath a series of heavy iron stamps. It is now carefully sifted through a brass sieve containing 2500 apertures to the square inch, and is in a condition to be submitted to the process of roasting. The furnace is of the common reverberatory class, but much smaller than those used in Mansfield by Ziervogel. The fuel employed is stone coal, and one attendant is sufficient to carry on the work. Four hundred weight of mineral are placed on the hearth at once, and the fire gradually increased in strength while the attendant stirs continually, and occasionally turns the charge entirely in the furnace, that every part may be exposed to an intense heat. At the end of about eight hours the proofs of complete roasting begin to appear; the powder becomes brown and earthy, the heat does not produce that interior glow which is an evidence of the presence of sulphur, and no fumes of sulphurous acid are to be perceived. Then the contents of the furnace are drawn out, allowed to cool, and carried to a mill resembling that usually employed for grinding corn, and after being ground and bolted is brought back to the furnace to be subjected to the chlorizing roasting.

The copper and iron of the regulus exist now partly in the form of sulphates, while the silver is present as a sulphate or in a metallic condition. The powder is placed in the same furnace, in charges of three hundred weight, and roasted for a short time, then mixed with five per cent. of common salt, and the heat and stirring continued for about three hours. During this time the chloride of sodium, or salt, is decomposed by the sulphuric acid of the sulphides, and the free chlorine thus formed combines with the silver, for which it has a strong affinity, until, nearly if not quite all of the valuable metal has taken the form of a chloride. The powder is now drawn from the furnace and carried in iron trays to the department devoted to lixiviation.

This is an elevated room containing a number of strongly made, round wooden vessels ranged in a manner similar to those at Wettstedt, which have already been described, in rows one above the other, so that the fluid poured in at the upper level will descend step by step to the bottom. Besides the vessels a large vat at a still higher level holds the store of hot brine, which is heated to the proper temperature by passing steam through it. Eight of the above mentioned tubs occupy the upper row, and in these the dissolving of the chlorine of silver takes place. The powder, still warm from the furnace, is placed in each to the amount of 6 cwt., and the hot brine allowed to run in upon it. The fluid passing through the mineral mass comes in contact with the fine particles of chloride of silver, takes this compound into solution and carries it through a filter of linen and straw that forms a false bottom of the tub, and thence by troughs into two reservoirs, where the earthy particles mechanically suspended in the fluid are allowed to settle.

The process of lixiviation is continued for each tub of powdered mineral, until a bright copper plate, placed in the steam flowing through the filter shows no indications of a silver precipitate. The solution of the precious metal is now assumed to be as complete as possible for the present, and the contents of the tubs are assayed, that the amount of silver remaining may be determined, and that no loss from unperceived accidents in roasting or dissolving may occur. When more than one thirty-third per cent. remains, the powder is again sent to the furnace, roasted with salt, and subjected to another treatment with brine, as above described. If containing less than one thirty-third of a per cent., which is generally the case, it is carried to the appropriate furnaces and fused for copper.

The argentiferous brine flowing from the lixiviating tubs, after being allowed to deposit the particles that may be held in mechanical suspension, passes into three tubs, each containing a layer of cement copper eight or ten inches deep. The superior attraction of copper for chlorine causes the silver to be precipitated in a reguline condition as *cement silver*, while the former metal is taken into solution in its place, and carried forward into a fourth range of tubs, where, in order that the complete precipitation of the silver may be secured, the brine is brought the second time into contact with finely divided copper. A still lower range of tubs receives the fluid which now holds much copper in solution, and where, by means of metallic iron, the copper is in its turn precipitated in the form of cement copper.

The fluid passes into other vessels containing iron, that it may be completely freed from its copper, and then flows into a reservoir beneath the floor of the apartment, and is finally pumped into the reservoir spoken of in the commencement of the description, to be heated and passed again over the argentiferous powder.

The silver falling in the precipitation tubs is collected every eight or ten days, cleared of particles of copper by passing hydrochloric acid over it and placed in a vat where for a period of twenty or thirty days it is allowed to remain in pure water, which is occasionally renewed. It is then placed in an iron pan upon the top of the furnace and allowed to dry, and finally, it is carried to the refining department, where it is fused and purified.

Not only is the separation of the silver more complete than by the method of liquation formerly in use, but the copper obtained by smelting the lixiviated remainders is found to be much superior to that obtained by the ancient method, since during the complete roasting at the beginning of the process, a greater part of the antimony and arsenic are driven off into the atmosphere.

Rock Springs District--Colorado.

Mining in the Colorado region is in nowise confined to the country adjacent to the river. There is every reason to believe that the entire country between that river and the coast, and indefinitely to the eastward, will be found rich in mines of gold, silver and copper. Wherever prospectors have started in, they appear almost invariably to meet with success. The Rock Spring district, about 50 miles from El Dorado Cañon, on the road thence to Los Angeles, is already beginning to assume considerable importance. So extensive have these mines become that the miners in that neighborhood have found it necessary to divide the district, and a new one has recently been formed from the northerly portion, and named "Macedonia District." Rock Spring District is five miles square, having Silver Hill for its center, while Macedonia Hill has been fixed as the center of the district of that name.

In the latter, work has been actively commenced in the Macedonian lode and the Blus Ophir. The Mammoth Company, in Rock Spring District, are pushing ahead vigorously with their tunnel. This is said to present an immense lode at its outcrop, and is likely to be very valuable. An assay recently made from what is supposed to be a narrow spur, struck in the tunnel, yielded $540 to the ton. The rock from the croppings has assayed at a much higher figure. This tunnel is being driven through very hard granite. The shaft of the Pride of the Union was down about 70 feet at the time our informant passed that way, and the company were taking out some very fine-looking ore. A contract has been given out for sinking a shaft on the Montezuma lode.

The Macedonian cry is heard from these mines, "Come over and help us!" There is room enough for all who come with means to locate and develop the mines. Companies in this city who are sending men there with half means, however, are making a great mistake. There are no placer mines there from which a temporary support can be derived; neither are there any mills as yet for crushing and taking the bullion from the ore.

The developments are already sufficient to warrant the putting up of a small prospecting mill in this neighborhood, say on the road at the Rock Springs Camp, which would be central. Why do not the companies in this city interested in these mines unite in an enterprise of this kind? If such a project should be committed to proper hands it would not only be a paying investment, but demonstrate at once, and at small aggregate cost, the value of the district. A mill put up and run on this plan will save to the miners the extortionate charges of a speculating company, whose aim is too often to ruin the reputation of a mining neighborhood, in order to freeze out the locators and buy up their claims for a song. Assays have already shown that silver exists there in large quantities in "specimens," and the pick and shovel have proven that the lodes are heavy and continuous. We hope soon to be able to record the fact that the machinery has left this city for a mill for Rock Springs. There is plenty of wood in the neighborhood for fuel and timbering, and thousands of acres of the best quality of mountain bunch grass.

Scientific Sacrilege.—It is said that the French Commission, under the direction of M. de Saulay, is rifling the tombs of the prophets and exhuming the remains of venerated Israelites, to enrich the scientific collections at Paris. Many of our Israelitish friends are much aggrieved at this sacrilege, and justly urge that zeal for science should never infringe upon subjects justly held sacred.

Mining Gossip.

EDITED BY.....FRANK WARDDELL.
FOR THE MINING AND SCIENTIFIC PRESS.

You Cannot be too Careful.—Quite an exciting little affair of threshing took place on Montgomery street, last Tuesday morning. It was most skillfully administered, and in the latest approved style, by a well known physician of this city, to a broker in feet, or, in other words, to a "corner ornament" and pretending dealer in feet; (for in our days we have no more idlers.) Ask such an one his business and the answer is invariably that he is a broker—surely not very complimentary to our legitimate dealers in stocks. But to return to our story: It seems from reports that the doctor in question had introduced the "broker," as his friend, to a private party given on the previous evening, and while partaking of the hospitalities of the house, and enjoying himself in the mazy dances, the broker had become rather too familiar, and even went so far as to endeavor to have a secret appointment made with the daughter of the doctor, a beautiful, unpretending miss of some fifteen years of age, to meet him—this unblushing piece of brokerism—at his sleeping apartments on the following day—appointing the time most suitable for his scandalous designs, the hour she left her school. The young lady made no reply, but allowed this low specimen of humanity to think he had secured her as a victim. But, alas! how deceived he was; for upon her return home she acquainted her father with the facts, and the next morning, bright and early, he wended his steps for Montgomery street, and took his position to await the arrival of the broker. In a short time he met and gave him a scientific caning, which he richly deserved, and double the amount would not have been too much. Thus ends our version of this affair in high life, which we will close with the following moral:—Fathers, always look well to the character of those whom you introduce to your families. Look to character first, and wealth afterwards.

Bullion from Esmeralda.—A correspondent furnishes us the following as a correct exhibit of the amount of bullion shipped from Aurora by Wells, Fargo & Co., for the three first months of 1863 and 1864, which foots up a balance in favor of the present year of $276,500:—

	1863.	1864.
January	$12,605	$129,000
February	12,798	118,500
March	15,597	69,100
Total	$41,000	$317,500

Since the 1st of the present month we understand that the Antelope Company have forwarded through the same source $8,000, and the Real del Monte $31,000.

London Quartz M. Co.—This mine, located in Siskiyou county, have on exhibition in this city several splendid specimens of rock. One of the specimens we inspected is said to have assayed at the rate of $5,000 to the ton. This is what we consider a "big thing" if there is only enough of it.

Pride of America—American Flat.—Recent accounts received from this mine state that very good indications have been discovered. The stock has advanced in price. Their shaft is now 160 feet in depth, and they have every requisite to thoroughly work the lead.

Owens River G. & S. M. Co.—This company have purchased the Ida Mill, situated within a short distance of their mine. The mill is first class, twelve stamps, and in perfect working order. They intend to set it to work at once upon their own rock.

Buckeye G. & S. M. Co.—The reports from the superintendent continue to be favorable. The latest letter received states that the deeper they go, the better the quality of the rock becomes, and of a far more silvery appearance than heretofore.

Greenbacks.—A large business has been transacted among the brokers in greenbacks, mostly outside of the boards, during the past week.

Election.—At the annual elcetion, held on the 4th inst., by the stockholders of the East Lyune G. & S. M. Co., the following gentlemen were elected: Trustees, R. Shearer, W. Buchanan, H. J. Somers, J. W. Warrin: President, J. W. Warrin; Secretary, Samuel Smith.

Accident.—Mr. L. F. Mehr was very seriously injured in the new incline of the Real del Monte mine, during the past week, by the explosion of a blast, which went off while he was tamping it.

DeWitt Clinton Mine.—This claim, which is now in dispute with the Justice, is, we learn, a south extension of the Independence claim. Their tunnel is in 180 feet, and they continue to work as hard as ever upon it.

Real del Monte.—A dispatch was received at the company's office on the evening of the 4th, stating that they had shipped from the mine the sum of $31,000 in bullion, and that the indications were very favorable. We learn that the above amount is the proceeds of three weeks' work. Upon this report being made public, the stock took a sudden flight on the following day, and large quantities changed hands at advanced rates.

San Francisco Homestead Association.—The election for officers of this association was held on the evening of the 4th inst., when the following were elected for the ensuing year:—President, N. P. Perine; Secretary, Wm. J. Gunn; Treasurer, A. Himmelman; Directors: N. P. Perine, W. J. Gunn, D. Norcross, Wm. Banks, John Pforr and R. White.

La Providencia M. Co., Arizona.—Mr. Beaver, the superintendent of this mine, states that at the surface of it there appears a vein of antimonial silver and lead ore; and at the depth of eighty feet a beautifully defined vein of "petanchi," such as is found in the majority of the large mines in Mexico, which is from three to four feet in width. This company have contracted to sink their shaft to a further depth of fifty feet, and intend to erect on their own ground sufficient furnaces to reduce their ore. The ore works very easy, and recent assays show a return of $156 in gold and silver.

Still Another Suit.—Mr. P. C. Whitney has commenced a suit in the Fourth District Court against the Caroline Mining Company, Reese River, to compel them to issue one hundred and sixty-three shares of stock to Joseph S. Schuster, who claims to be one of the original locators; also against the Garibaldi Mining Company to compel them to issue to the same party one hundred and ninety shares of stock.

Lady Bayan.—In a letter received here on the 5th inst., the Superintendent of the mine, among other things, states that "the ground in the lower works is becoming softer, requiring to be timbered much sooner than heretofore." He further states that he is now driving a drift southwest from the old works; that this morning (April 2d) the appearances were much better, as a little metal was coming in, and he was sanguine of finding more metal at a greater distance, without having to sink for it. At all events, for the present, the water is too troublesome to sink successfully. The new Board of Trustees, elected on the 4th instant, is composed of H. F. Tescbemacher, John Parrott, G. H. Howes, G. W. Fink, D. Meyers, D. Douglas, F. Collyer.

Prices in Aurora.—The Aurora *Union*, of March 25th, contains the following: "Provisions are abundant, and at reasonable prices. Flour $24 per barrel; potatoes 10 cents per pound; barley one bit; eggs seven bits per dozen; butter five bits per pound; crushed sugar 33⅓ cents, or three pounds for one dollar; beef from one to two bits per pound, according to quality; mutton and pork still higher; milk $1.25 per gallon, and house rent too high to be profitable either to landlord or tenant."

The Alabaster Caves of Washoe.—There are probably but very few persons who are aware of the existence of caves of beautiful alabaster within three or four miles of Virginia City. The *Bulletin* says that among the hills to the west of American Flat there is an extensive limestone formation, worn and crowded into precisely similar shades as the limestone that forms so peculiar a feature in the geology of the counties of Tuolumne Calaveras and Amador in California. But a short distance from this limestone there is a beautiful cave of alabaster, from the roof of which, when first discovered, hung long pendant stalactites, of snowy whiteness and rare beauty which visitors have from time to time carried away. The alabaster in this cave is so soft that it may readily be cut with a jackknife, while much of it is, both in appearance and softness, very much like damped common loaf sugar. Unfortunately, both it and the limestone are wholly unfit for building purposes, as they crumble on exposure to the air, though they are very beautiful in appearance.

Important Mining Suit.—William H. Bremer, says the Virginia *Union*, commenced suit in the District court against the North American Mining Company, for recovery of seven hundred and fourteen shares of its capital stock. Plaintiff avers that the predecessors and owners of the Company were locators of fourteen mining claims of three hundred feet each (making 4,200 feet) in the Gold Hill district; and that he, the plaintiff was owner of seven hundred and fourteen feet in said claims, which he conveyed to the company on condition that stock be issued to him at the rate of one share for each foot. That it was agreed that the assessments; were not to amount to more in the aggregate than $150 per share. That he has offered at different times to pay assessments; that such offers of payment have been rejected and that the corporation (the defendant) has refused to issue the said stock.

A Sandy Foundation.—Our neighbors at Napa City appear to be resting on a rather uncertain foundation, judging from the following paragraph, which we clip from the Napa *Reporter*: "It is not known to non-residents of Napa City, that our brick buildings have no solid foundation. The substratum on which they are built, sinks gradually, with every winter season, until some of them have gotten below the level of the adjoining street. We notice that the foundation of the Court House has been recently searched for, and found in such a decayed condition that it is either necessary to remove the building, the ground rats, or rehabilitate the under work."

The above is a forcible illustration of the foundations of certain mining stocks which have hitherto stood high in our market.

Crocket, Esmeralda.—This stock is beginning again to show signs of improvement; it seems to be more active in the various boards, commanding better rates, etc. This is owing, no doubt, to the fact that the Real del Monte is advancing, which instills more life into the surrounding claims, which were gradually drooping away.

North American—Continues to bear the name of "fancy article;" up one day to a fabulous price, and when the purchasers wake up the next morning the chances are that they may find it away down. If there is any merit in this mine, we are ready and willing to be enlightened. Come, who speaks first?

Colorado Specimens for Europe.—Dr. Worrall is collecting specimens in Colorado (Pike's Peak) for transmission to London and other important cities in Great Britain. He is confident that a large sum of money can be secured in England for the purpose of working those mines, and also a large accession to the corps of miners and scientific men of that region.

Failure.—We have to announce, this week, the suspension of another stock broking firm of this city; the liabilities, we learn, are not very large. The cause of their misfortune is mostly attributable to operations in Real Del Monte. We are really sorry for the gentlemen in question, as they are deserving young men, and have worked hard to be successful.

Abel Stearns, Esq., the great stock man of Los Angeles, has lost some 12,000 head. Another large stock man has lost 5,000 head, and others less numbers, according to the extent of their herds.

A Section of Lilse's bridge over the American near Sacramento, was carried away by the flood of Friday night of last week.

An Act Concerning Assessments upon the Stock of Corporations.

Section 1. The Trustees of any corporation, formed under the general laws of this State, shall have power to levy and collect, for the purpose of paying the proper and legal expenses of such corporation, assessments upon the capital stock thereof, in the manner and form and to the extent hereinafter provided, and not otherwise.

Section 2. No assessment shall exceed five per cent. of the capital stock of the corporation, and none shall be levied while any portion of any previous assessment shall remain unpaid, or uncollected, except in cases where all the powers of the corporation shall have been exercised in accordance with the terms of this act, for the purpose of collecting such previous assessments, and except, also, the collection of a previous assessment against one or more stockholders, restrained by injunction or otherwise; in which case, further assessment may be levied according to this act.

Section 3. No assessment shall be levied except by order of the Board of Trustees, concurred in by a majority of said Board, and entered upon the records of the corporation.

Section 4. Every order levying an assesment shall specify the amount thereof and the time when, the person or persons to whom, and the place or places where, the same is payable. It shall also appoint a day for the advertisement of the delinquent list, which shall not be less than thirty nor more than thirty-five days from the time of the making of such order; and a day for the sale of delinquent stock, which shall not be less than ten nor more than twenty days from the time appointed for the advertisement of the delinquent list.

Section 5. Upon the making of such an order, the Secretary shall cause to be published immediately a notice thereof in the following form:

"[Name in full.] [Location of works.] Notice is hereby given, that at a meeting of the Trustees of said Company, held on the [date] an assessment of [amount] per share was levied upon the capital stock of said Company, payable [when, to whom, and where, particularly]. Any stock upon which said assessment shall remain unpaid on the [day fixed] will be advertised on that day as delinquent and unless payment shall be made before, will be sold on the [day appointed] to pay the delinquent assessment, together with costs of advertising and expenses of the sale. [Signature of Secretary, with particular location of office.]"

Section 6. Said notice shall be published once each week for four successive weeks, in a daily or weekly paper, published in the place designated in the articles of incorporation as the principle place of business of the corporation, and also in some paper published in the County in which the works of the corporation are situated, if a paper be published therein; *provided*, that if the works of the corporation are not situated within some State or Territory of the United States, then publication in a paper of the County shall not be necessary; and *provided, also*, that if there is no paper regularly issued on Saturdays at any place where publication is required to be made, the notice may be published in every issue of the paper which is most frequently issued at such place, for the full period of four weeks; and *provided, also*, that there is no newspaper published at that place designated as the principal place of business of the corporation, then the publication shall be made in the newspaper published nearest thereto; and *provided, also*, that the notice specified in the 5th section of this act may be served by delivering a copy thereof, certified by the Secretary, to each stockholder personally, and in case of such service upon all the stockholders of said corporation, then no notice by publication shall be necessary, and such personal notice shall be deemed complete.

Section 7. If any portion of the assessment mentioned in said notice shall remain unpaid on the day specified for the publication of the notice of sale, the secretary shall, unless otherwise ordered by the Board of Trustees, cause to be published in the same papers in which the notice provided for in section 5 shall have been published, a notice substantially in the following form:

"[Name in full; location of works.] *Notice.*—There is delinquent upon the following described stock, on account of assessment levied on the [date,] [and assessments levied previous thereto, if any,] the several amounts set opposite the names of the respective shareholders, as follows: [Names, number of certificates, number of shares, amount.] And in accordance with law, and an order of the Board of Trustees, made on the [date,] if any such order shall have been made, so many shares of each parcel of said stock as may be necessary will be sold at the particular place, on the [date,] at [the hour,] of said day, to pay said delinquent assessments thereon, together with costs of the advertising and expenses of the sale. [Name of the Secretary with location of office.]"

Section 8. Said last named notice shall state every certificate of stock separately, with the number of shares which it represents, and the amount due thereon, except where certificates may not have been issued to parties entitled thereto, in which case the number of shares, and the amount due thereon, together with the fact that the certificates for such shares have not been issued, shall be stated.

Section 9. Said notice, when published in a daily or weekly paper, or in both, shall be published as follows: When published in a daily paper, the same shall be published for a period of ten days, excluding Sundays and holidays, previous to the day of sale: when published in a weekly paper, the same shall be published for two weeks previous to the day of sale, the first publication in the weekly being at least fourteen days prior to the day of sale.

Section 10. By the publication of the said notices, as hereinbefore provided, the corporation shall acquire jurisdiction to sell and convey a full, complete, and absolute title to all of the stock described in the notice of sale upon which any portion of the assessment or costs of advertising shall remain unpaid at the hour appointed for the sale, but shall sell no more stock than is necessary to pay assessments due, and costs of sale.

Section 11. On the day and at the place, and as nearly as may be at the hour appointed in the notice of sale, the Secretary shall, unless otherwise ordered by the Board of Trustees, sell, or caused to be sold at public auction, to the highest bidder for cash, so many shares of each parcel of said described stock as may be necessary to pay the assessment and charges thereon, according to the terms of said notice: *provided*, that if payment be made before the time fixed for sale, the party paying shall only be required to pay the added cost of advertising.

Section 12. The person offering at such sale to pay assessment and costs for the smallest number of shares, or fraction of a share, shall be deemed the highest bidder.

Section 13. The time fixed in any notice published according to the provisions, may be at once extended for a period of not more than ten days, by order of the Board of Trustees, duly made and entered on the records of the corporation; but no order extending the time for the performance of any act specified in any notice shall be effectual, unless notice of such extension or postponement be appended to and published with the notice to which the order relates, before the completion of the regular course of publication thereof.

Section 14. No assessment duly levied shall be rendered invalid by a failure to make proper publication of the notices hereinbefore provided for, nor by the non-performance of any act required to be performed in order to enforce the payment of the same; but in case of any substantial error or omission in the course of proceedings for collection, all previous proceedings, except the levying of the assessment, shall be void, and publication shall be begun anew.

Section 15. All acts and parts of acts inconsistent with the provisions of this act are hereby repealed; provided that such repeal shall not affect proceedings commenced for the collection of assessments heretofore levied, but all such assessments may be collected in accordance with the provisions of the laws then in force.

Section 16. This act shall take effect immediately.

The above bill received the signature of the Governor and became a law of the State of California, on the 4th day of April, 1864.

Bancroft's Handbook and Almanac for 1864.—This book comes to us in an enlarged form, containing much information that is valuable, and answering many questions which suggest themselves at almost every hour of the day. It gives a revised list of Federal, State and Municipal, Civil and Military officers, and a corrected list of post offices and postmasters, together with the date of important events which have transpired upon this Coast and in the Territories. Containing full statistics of the State and Territories, as it does, we do not see how a business man can well get along without it.

"American Flag."—Mr. McCarthy is now fitting up an entirely new office for this journal, on the south side of Clay street, near Sansome, and has announced that the first issue of the *Daily Flag* will appear on the 18th inst. Calvin B. McDonald, one of the most famous writers of our State, will occupy a position on the editorial department.

WASHOE STOCK MARKET.

SALES AT THE VIRGINIA AND GOLD HILL STOCK BOARDS

There was quite a revival of business in the transactions at the Washoe Stock Boards during the last week, and a number of claims have taken a sudden rise. Transactions in Jewett & Sheppard have been quite heavy at a very important advance; opening early in the week at $8 and $10, it rapidly advanced to $55, buyer 30 days, on Friday, closing on Saturday at $40. Considerable business has been done in North American, Pony Express, Richlieu, Pride of America, Miantonomah, etc. We append a report of sales as follows:—

American Basin, 30 shares at $2@$3. Burning Moscow, 91 at 100@111. Buckeye, 163 at 14@15. Arizona, 20 at 12. Baltimore American, 10 at 45. Boise & Reynolds, 10 at 2. Beaver, 20 at 20@29. Banner, 25 at 50c. Burke & McClellan, 20 at 8. Baltic, 156 at 160@180. Blue Ledge, 18½@19½. Cherokee, 10 at 75c. Central American, 60 at 3@5. Chollar, 10 at 300. Crown Point Ravine, 5 at 5½. Combined Effort, 16 at 9@10. Coutrnband, 15 at 3½. Coso, 5 at 3. Desert, 10 at 10. Daney, 100 at 110@150. De Soto, 10 at 40. Deep Red, 30 at 7. Daniel Webster, 20 at 12½. Eastern Crown Point, 20 at 4@4½. Eureka, 32 at 12½@15. Effingham, 40 at 50c. Express, 45 at 22@29. Echo, 20 at 23@25. Frankell, 146 at 4@9. Gentry, 10 at 18. Gould & Curry, 4 at 4,500. Great Eastern, 10 at 50c. G. V. & Napoleon, 40 at 1¼@11¾. Grant, 40 at 25@50c. Gold Canon, 11 at 25. Golden Eagle, 10 at 2.50. Harrold & Argo, 74 at 5@13. Hawkeye Original, 26 at 60@62. Harmon, 2 at 40. Hawkeye, 1 at 110. Irving, 30 at 7.50@8. John A. Logan, 105 at 50c@$1.50. Independent American, 10 at 3.50. Jewett & Shoppard, 1,175 at 7¾@55. Justice, 118 at 120@130. Jenny Lind, 30 at 1.50@2.50. Imperial, G. H., 5 at 175. Kit Carson, 20 at 50c. Independent, 10 at 55 Kossuth, 20 at 4.50@5.50. King Solomon, 411 at 1@2. Knickerbocker, 20 at 22@25. Keystone, No. 2, 20 at 5. Louisville, 30 at 2@2.50. Leon, 16 at 10@12.50. Lady Bryan, 903 at 40@51. Lady Bryan, No. 2, 62 at 1.75@3. Lamotte, 14 at 2.50. Mary Ann, 5 at 35. Miantonomah, 145 at 6 to 22. North Potosi, 40 at 30@34. North American, 444 at 128@175. New Oregon, 76 at 10@12. Naargansett, 206 at 2.75@5.60. Nevada, 135 at 125@740. Napoleon, 410 at 5@12. Northern Light, 23 at 3¼@12. Nightingale, 50 at 20@30. Ophir, 30 at 1,540@1,560. Oneida, 15 at 10. Overman, 5 at 215. Original Croesus, 300 at 3@4. Osceola, 20 at 5. Pony Express, 180 at 3¾@7. Pioneer Commereial, 50 at 2@2.50. Pontiac, 20 at 75c. @$1. Pride of the West, 33 at 82.50@83. Paris, 10 at 5. Pone de Leon, 4 at 2. Pride of America, 135 at 4.50@8. Princess, 5 at 10. Russian, 25 at 4. Richlieu, 440 at 5@9. Randolph, 80 at 6@9. Real del Monte, 195 at 39@40.50. Rock Island, 113 at 17@28. Rising Sun, 10 at 1@4. Sunrise, 10 at 5. South Overman, 70 at 25@33. Sacramento & Meredith, 28 at 45@50. Savage, 3 at 2,600@2,615. Seneca, 25 at 25. Pontiac, 59 at 12@15.50. United American, 11 at 9. Utah, 30 at 18. White Dove Consolidated, 210 at 1@2¼. White & Saunders, 200 at 2.50@3.50. William Penn, 46 at 8.50@15. White & Murphy, 150 at 2.50. Wide West, 5 at 19. Wabash, 100 at 5. Yankee Blade, 35 at 50cts.

Steamer Launch.—Capt. Kidd's beautiful steamer, designed to run as an opposition boat between this city and Sacramento, was successfully launched on Tuesday last. She has been christened "Washoe," in compliment of our neighbors of silver land. Her boilers were built within her, and she was finished complete, upon the stocks, with the exception of a few extra touches and painting, which will be applied to her at the old ferry wharf at Oakland, where she will be out of the way of the dust and dirt of the San Francisco side of the bay. She will commence her regular trips in a few days, under the personal command of Capt. Kidd himself.

To Correspondents.—"A. M.," from Washington District, Reese River; a second letter from "X;" and "The Reese River Mines, No. 1," by "A," will appear in our next issue.

A fine specimen of a whale, forty feet long, in good order, drifted on the beach about a mile and a half south of the Cliff House, during the storm on Friday night, of last week.

Mechanical Department.

[Written for the Mining and Scientific Press.]

The Economy of Fuel and Heat.

Messrs. Editors :—As bearing upon the economy of fuel and heat I would request the publication of the following extract from the New York *Tribune* of March 1st :

Will Water Burn?—We mean can it be so burned as to economise and replace other fuel? The discredit thrown on the affirmative of this question by Paine's abortive quackeries at Worcester, some years since, have not discouraged further researches and experiments, which in one case—we know not but in others—already promise the most important and beneficial results. William E. Hagan, an educated and practical chemist, of Troy, N. Y., has for some years been at work on the problem ; and his success is embodied in a new process which may be seen in operation in an ordinary parlor stove in the rear of the Market Bank, No. 82 Nassau street, and in a furnace stove at No. 494 Broadway. The water, contained in a boiler on the top of the stove or furnace, may be supplied daily as it usually is to a boiler placed there to maintain a proper humidity in the atmosphere, or by a feed-pipe from a main or reservoir wherever (as in this city) a supply may thus be had. An ordinary stove will consume from three to four gallons per day ; and this is conveyed, through a pipe on the inner surface of the stove, but avoiding direct contact with the coal or other fuel, till it is emitted, in the form of superheated steam, at the bottom of the fire, where it is decomposed by the contact into hydrogen and carbonic acid gas, which instantly combine afresh, producing carbonic oxide, which undergoes a still further combination or combustion on being presented to the air, with a large development of caloric or heat at each successive stage or combination. Hagan, of course, does not pretend to dispense with carbon or fuel by his invention, but to economise its use to the last degree. In other words, instead of allowing half the carbon to escape in the form of carbonic acid, he consumes it entirely, leaving nothing to escape as smoke but water, and perhaps a little ammonia. He thus reduces the consumption of carbon or coal one-half, while maintaining a more temperate and equable combustion with a steadier and more healthful heat. The atmosphere of apartments or houses heated by his stoves or furnaces is more bland and Summer-like than any other process of combustion can supply. And, as the process is by no means expensive—adding perhaps one-third to the cost of a stove, and one-tenth to that of a furnace—we predict for his invention a rapid and general adoption."

Heat is evoked in all processes of mechanical and chemical condensation and absorbed by expanding matter, hence it may be inferred that heat is a condition of the molecular closeness, or of the volume of bodies. There is nothing to lead us to believe that any of the gasses fail to emit heat when chemically combined in a condensed form, and in all ordinary processes of combustion one or more gasses are brought in play. One volume of oxygen uniting with two of hydrogen to form water, gives out half the amount of heat that two volumes of oxygen do in uniting with one of carbon to form carbonic acid, and a quantity of heat equal to the latter result is due to the union of half the amount of oxygen with iron. In these cases the products are respectfully a vapor, a gas, and a solid. There is some yet unrevealed connection between the volumes and specific gravities as well as specific heats of combustibles and their so termed supporters. In the union of carbon and oxygen and hydrogen and oxygen, the compound volumes are reduced one third. When carbon or hydrogen extracts oxygen directly from the atmosphere one half the heat given out is carried off mostly in a latent condition by the nitrogen. If while the oxygen is being condensed another agent equally condenses the nitrogen by forming with it a second compound, it will be apparent that the loss of heat may be obviated to a certain degree. This principle would appear to partially enter into the theory of the above invention. A large amount of heat is absorbed by water in forming vapor, which coming in contact with heated carbon decomposes into its constituents, oxygen and hydrogen. Two equivalents of the oxygen unite with one of carbon to form carbonic oxide, which in its further passage through the fire takes up another equivalent of oxygen from the atmosphere to form a double amount of carbonic acid. The hydrogen is supposed to unite with carbon, to form carburetted hydrogen which by contact with air is likely to unite the carbon with oxygen and the hydrogen with nitrogen and oxygen, the products being carbonic acid, ammonia and water, which latter two if mutually mingled condense with considerable heat.

This I assume to be the "educated and practical chemists'" theory of his invention; although the writer of the notice which I have clipped from the *N. Y. Tribune*, claims an absolute impossibility—the conversion of carbon into nothing, or the mere effect of something—heat.

Now it must be apparent that the amount of heat required to convert water vapor into oxygen and hydrogen, is exactly equal to that given out when the same amount of oxygen unites with carbon. The idea of the invention, however, is not new, and when the compound series of results operate under favorable circumstance there can be a saving of the waste radiated heat by its application to the water. But in case of a stove where radiation is seldom a loss of heat, the effect will be equal to dashing the water directly upon the fire. The hydrogen under favorable guidance is capable of setting free its own and a probable portion of the heat of nitrogen; but the amount of nitrogen remaining uncombined can scarcely be less than in the common process of combustion, of which the round-a-bout mode would seem to be but a repetition. It will be remembered that very volatile gases are brought into action, such as might escape unnoticed, and carry off a large quantity of latent heat, and which require a perfection of arrangement to bring about fair chemical results, particularly with regard to the amounts of vapor and air and degrees of heat.

In the last number of the Press, I noticed an article describing the application of superheated steam to the production of greater heat in furnaces. In this instead of stealing calorie from the fire to convert water into superheated steam, the proposition is to use waste heat, or that applied away from the furnace. By reason of concentrating heat in the area of the furnace, and thereby ensuring more complete combustion of carbon and the gasses, this invention may possess much merit. The other if rightly described is but a cool imposition, because it is scarcely possible for it to gain any more heat than it expends.

E. A. M.

Copying from Chinese.—The Parisian scientific world has proposed to translate the Chinese works on gardening for the benefit of the French horticulturists. The Chinese are certainly great proficients in horticulture. Probably no other gardeners can produce so great a quantity of vegetables from a given amount of ground as the Chinese. They are also remarkable for producing early vegetables. In dwarfing, and many other kinds of fancy horticulture, the Chinese and Japanese excel the world. There are, no doubt, many mechanical ideas, also, which might be profitably borrowed from these Orientals. They have a method of *soldering cast iron*, which, we believe is unknown, or, at least, not generally known among our mechanics. A Chinese traveling tinker will mend a hole or solder up a crack in a cast iron kettle as readily as the Yankee tinner will remedy the damage in a tin kettle.

The Iron-clad Milwaukie, recently launched at St. Louis, has two revolving turrets, mounting two 11-inch Dahlgren guns each. The chief peculiarity of this vessel is, that her immense guns are so mounted as to require less manual labor in working them than is usually employed in working an ordinary field gun. The guns are moved entirely by steam, and are loaded in the hold of the vessel, and raised on a column of steam to be fired. They are run out by steam and recoil against steam, one man being all that is needed to work the guns, with the exception of loading them.

"An Enquirer" Once More.

Messrs. Editors :—The last three lines of "E. A. M.'s" communication, March 22d, in your last issue, were to the point; but I am unable to understand what he means by his reference to the specific heat of water and air in his supplementary letter of the 29th, unless the printer has been making nonsense of his figures; for assuredly "E. A. M." cannot have committed such a blunder. [Our Sacramento correspondent, in his haste of writing, has evidently transposed "water" for "air;" by re-transposing these words, "An Enquirer" may be somewhat aided in his understanding.—Ed. Press.] Why does he not give the names of "certain scientific experimenters in England," so that they may be consulted by his readers, as well as himself. "Certain scientific experimenters" is quite as indefinite as the "oldest inhabitant," "a respectable gentleman," or an "intelligent contraband." "E. A. M." should moreover endeavor to keep cool, notwithstanding he may be discussing a warm subject; and remember that "he who throws rosewater at his friends perfumes his own hands most."

And now for a few questions suggested by "E. A. M.'s" two last communications, to which I do sincerely desire answers; for I have gained "one idea" already, and I am desirous to secure another. "E. A. M." says: "Experimentally, it has been ably demonstrated that no alteration in form of surface, by corrugation for instance, of the same thickness of plates and capacity in boilers, makes any difference in the condition of heat from the same fire." And again: "Steel is not a better conductor than iron, but the allowance of a *diminished* quantity of material for the same pressure of steam gives it a decided advantage in the rapid conduction of heat to the water."

Now let us put this *theory* into *practice*, and see what will be the *result;* and to do so let us endeavor to improve upon the tubular boiler by so altering it as to make it conform to these rules. First, as "no alteration in form of surface makes any difference in the condition of heat from the same fire," let us remove the tubes from the boiler. This change will enable us to reduce the diameter of the boiler without reducing its capacity. Now, by reducing the diameter, we are enabled to reduce the thickness of the boiler-plate, without impairing the capacity of the boiler to stand a given pressure of steam.

And again, in order that we may use *still thinner* boiler-plate, without reducing the capacity or strength of the boiler, and as the "shape of the boiler makes no difference with the heating qualities," let us construct our boiler in such a form as will afford the greatest strength and largest capacity with the smallest amount of material. Is not that evidently spherical? And is not that form, in practice, evidently the *worst* of all possible forms for a steam boiler?

The next two sentences commencing with "A gain of nearly thirty per cent.," etc., and "Any individual hopeful," etc., I can make nothing of. They don't begin to equal "moonshine" for "giving *me* an idea." But, further on, "E. A. M." says "full forty per cent. of fuel escapes combustion." Just so. Now is there not a bare chance for some improvement in furnaces that will save a portion of that "forty per cent." of waste? And is not that just where the argument started, by "E. A. M.," scouting the idea that an engineer in the Gould & Curry mill at Washoe had made any improvement on "the present perfected system of building furnaces and boiler flues?" Better stick to your text, my friend, or "throw up the sponge."

But again, has not "E. A. M." caught himself in a very bad trap on the electro-magnetic machine? Read what he now says on that subject, and compare it with what he said in his first communication in reference to the reported New York invention, which proposes to furnish electro-magnetic power at such rates and in quantities sufficient for practical results—the main principle of the invention being "a more extended or free condition of action," "E. A. M.'s" very words in his present communication, and to which he adds, "as has been experimentally proven."

An Enquirer.

Metallic Belts for Pulleys.—Mr. Thos. Luders, of Paris, proposes the use of steel bands as a substitute for leather for driving machinery. The metallic bands are to run upon wooden or iron pulleys, covered with two or three folds of leather. The ends are either braced or laced together with leathern thongs, the holes being in the latter case bushed with soft metal.

Patent Department.

Something New and Important in Gas Lighting —*A California Invention.*—Mr. D. B. James, of this city, has invented a new and portable apparatus for manufacturing gas, which promises to do much toward doing away with the monopolies of large gas companies. By the use of this apparatus, which may be placed in the position of the ordinary meter, occupying only the same space, and costing less than is required on deposit for the same; the consumer may manufacture his own gas, and that too at an expense not exceeding one-half the cost now charged in this city. Mr. James has given his invention a thorough, practical trial, and demonstrated that he can produce a light fully equal in every essential particular, and brighter and whiter than that derived from the ordinary gas. The practicability of the thing is beyond a question. This apparatus can be readily connected with any pipes now in use. Application for a patent has been made through the Mining and Scientific Press Patent Agency. Their manufacture will be commenced immediately in this city. The material used in the manufacture of this gas is a non-explosive fluid.

Drying Coal by Centrifugal Force.—A patent has been granted to Mr. Prosper Hanres, engineer, Belgium, for improved machinery for drying coal. It consists of a central shaft, mounted in a socket in such a manner as to allow of a sufficiently rapid motion being imparted to it to throw off by the effect of centrifugal force the water contained in the coal On this shaft is fixed a circular ring or crown, to which is attached a frame covered with a wire-cloth or perforated sheet metal the holes being of such a diameter that the water will escape while the coal will be retained. A hollow shaft, concentric with the first, turns rapidly in the same direction, but with a different velocity, serving as the axis to a spiral screw of which the exterior diameter is equal to that of the interior of the perforated cylinder. By the action of this screw the coal, which is being continually fed to the apparatus by a hopper, will fall on to the top thread of the screw, which is slightly curved upwards or flagged in order to collect or throw over the matters more quickly. By the rapid rotation of the screw the coal is thrown against the sides of the drum down which it falls, deprived of its moisture, into the reservoir arranged to receive it. The rotation of the drum and of the screw can be so adjusted as to insure the coal being retained in the apparatus until it is perfectly dry.

Should the dry crushing of quartz ever come into general practice, as most likely it will, the principle here described may become valuable for such a purposo.

Dressing Ores by a Current of Air.—A patent has been granted to Mr. William Clark, on a communication from M. L. P. Langlois, of Paris, for improvements in separating ores from their gangues. The novelty of the system proposed consists in applying a current of air instead of water for this purpose. The apparatus is formed of a hopper, which conveys the pulverized ores into a current of air produced by one or more blowing machines; which current of air, while it throws the lighter and poorer particles a considerable distance, only throws the richest and heaviest ores, that is those containing the greatest quantity of metal, the least distance, thus effecting the classification of the whole, according to their density and their collection, in suitable receptacles. If a single blower is insufficient, two or more are employed, placed one above another, whereby the metallic particles, after being partially classified by the action of one blower, pass under the action of a second blower, which completes the classification.

A New Patent Churn Dasher, constructed upon a new and ingenious principle, has recently been brought out by Mr. W. D. Stephenson, of Montreal. It is said that by the use of this instrument butter can be produced from six quarts of pure milk in 20 minutes, and from cream in 10 minutes. The arrangement is very simple. In place of the ordinary churn handle there is a tin tube of the same dimensions, with an air valve at the top. This, by the ordinary perpendicular motion of churning, forces air so fast into the milk as to cause a great commotion, which brings about the result in so short a time. Mr. S. has the approving opinion of several scientific men on his invention, and is confident his improvement must supercede all others.

The Mining and Scientific Press Patent Agency.

OFFICE, 57, GOVERNMENT HOUSE, SAN FRANCISCO.

Information About Obtaining Patents.

The Patent Law Amendment Act, of March 4th 1861, and March 3d 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent? A positive answer to this question is only to be had by presenting a formal application for patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the Mining and Scientific Press. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Preliminary Examinations.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search, made at the U. S. Patent Office, Washington, through the medium of our associate in that city, to ascertain whether among all the patents and models there stored, any invention can be found which is similar in character to that of the applicant. On the completion of this special search we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollars. This search, though it involves the expense just named, will usually prove satisfactory. If the same device has been before patented, the time and expense of constructing models, preparing documents, etc., will in most cases be saved; if the invention has been in part patented, the applicant will be enabled to modify his claims and expectations accordingly. Many other obvious advantages attending the Preliminary Examination; although the strictest search does not always enable the applicant to know positively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publication; or some other person has been previously rejected on an analagous device; or some other invention for a similar purpose, but partially resembles the applicant's in its construction; or the Government makes an unjust or uncommon decision. Against none of these contingencies does the Preliminary Examination provide; it will, however, generally inform the applicant whether an improvement similar to his and used for the same purpose has ever been patented or not in this country.

Persons desiring the Preliminary examination are requested to remit the fee ($10), and furnish us with a sketch and description of the invention.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will often find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian, Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens The only discrimination made is against subjects of governments that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues.—If the application is rejected we cause a thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have excess to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client. For this service we make no charge. If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The laws requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: Dewey & Co., Mining and Scientific Press, rooms 56 and 57, Government House, corner of Sansome and Washington Streets, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail — The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due, and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued, the applicant will be notified to remit the last installment of the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Return of Models.

Under the new law, if the applicants case has been rejected he is entitled to withdraw his model from the Patent Office.

This law applies to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expense

Application for Patents, Designs, Trade-Marks, Labells, etc.

Under the new law patents may be taken out for any new form of any article, also for tools, patterns, castings, machine-frames, stove-plates, borders, fringes, all new designs for printing, weaving or stamping upon silks, calicoes, carpets, oil-cloth, prints, paper-hangings, and other articles. Trade-marks, labels, envelopes, boxes and bottles for goods, may also be patented; likewise all works of art, including prints, paintings, busts, statues, bas-relief, or compositions in alto, or basso relievo, new dies, impressions, ornaments to be placed upon any article of manufacture, architectural work, etc.

Our facilities for the prompt preparation and securing of patents are of the most extensive character and our charges are very moderate.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the tariff of fees established by law:

On every application for a design, for 3 years and six months...	$10
On every application for a design, for seven years	15
On every application for a design, for fourteen years	30
On every caveat	10
On every application for a patent	15
On issuing each original patent	20
On filing a disclaimer	10
On every application for a re-issue	30
On every additional patent granted on a re-issue	30
On every application for an extension	50
On the grant of every extension	50
On appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, D. C.	25

Infringements.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunction from the Court, to an arrest of or prohibition from the employment of his machinery, shop, works, factory and men in production of the article.

In addition to injunction the infringer is liable to be mulcted in treble the amount of damages awarded by the jury. The maker, the workman, the seller, and the purchaser, if a user, are all liable either collectively or individually.

Having access to all the patents, models, public records, drawings and other documents pertaining to the Patent Office, we are prepared to make examinations and give opinions upon all infringement questions, advise as to the scope and ground covered by patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Appeals.

In rejected and other cases, the new law provides for an appeal from the Examiner-in-chief to the Commissioner in person, on the payment of a fee of twenty dollars. A further appeal may be taken from the decision of the Commissioner to the U. S. Court, of the District of Columbia. These appeals are heard by any of the Judges before whom the applicant elects to bring the case. No Jury. All the papers, models, etc., are sent by the Commissioner to the Judge, who then reviews the case, and either sustains or reverses the Commissioner's decision.

The party taking the appeal pays an additional fee of twenty-five dollars. The Judge appoints a day of hearing. The applicant can appear in person or by counsel to state his case and file a written argument. Five days are allowed the opponent to put in an answer, and a similar period to the appelant for a closing reply.

Many important cases are brought before the Judges on appeal and the decisions of the Commissioner are not unfrequently reversed

We have had successful experience in conducting these appeals, and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, Government House, corner Sansome and Washington streets, San Francisco.

Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

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For Sending East, no more valuable or appropriate publication can be selected than the MINING AND SCIENTIFIC PRESS. For sale by the principal newsagents.

AMERICAN AND FOREIGN PATENTS.—Letters Patent for Inventors can be secured in the United States and foreign countries through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past year.

FAVORABLE TO INVENTORS.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the MINING AND SCIENTIFIC PRESS, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

San Francisco:

Saturday Morning, April 9, 1864.

☞ MINING NOTICES will be found on pages 233, 234, 237 and 240.☜

REPORT YOUR EXPERIMENTS.—How much that is learned by our intelligent and successful miners and mill men, is never communicated. Experiments are constantly going on, often with important results, which would impoverish no one, by being made public, while they might save thousands to the State if they could only be made generally known. We are quite confident that there are many who possess valuable information, acquired from experience, who have no objection to making the same public, and who do indeed, communicate it to their immediate neighbors; but no farther. Here is valuable information. Why not report your experiments through the MINING AND SCIENTIFIC PRESS, the accredited organ of the miners of this State? Tell us how you get certain results, that others also may profit. You have no fears of competition. The material you are producing—gold, silver and copper, are always in demand; there is no danger that the market will be overstocked; they will always sell. It matters not if you communicate in a hurried way, so you only send us facts. We will put the same into readable shape. Report your experiments.

THE GEOLOGICAL SURVEY.—The Legislature, just previous to its adjournment, passed the appropriation for the continuance of the geological survey of the State—or rather for a partial summing up and publication of the work already done. That is better than nothing, as the leading daily papers of the State recommended, and urged in column leaders, as the proper action to be taken in the matter. We understand that Professor Whitney will leave for New York about the first of May, where he will supervise the publication of his report. We trust that the forthcoming publications will prove of sufficient value and interest to evoke a more liberal feeling from both the Legislature and the press, ere another appropriation may be called for. The loss of the present appropriation would have been a burning shame and lasting disgrace upon our State; to say nothing of the breach of faith it would have involved toward the distinguished gentlemen who are engaged in the survey.

IMPORTANT ACT.—Senator Moyle's bill, passed by the last Legislature, for the establishment of agencies for the transfer of shares of the capital stock of mining corporations at different localities.

GLASGOW SCHOOL OF MINES—A WORD FOR HOME CONSIDERATION.—A school was established about four years since, in the important city of Glasgow, Scotland. Its fourth annual examination was held on the 18th of November last, on which occasion the principal stated that although the school had been in operation but four years, no less than 93 students had already been enrolled in its classes, and of these twenty-two were at that time actually engaged as principals or assistant managers of important mines. Some four or five others had been previously engaged in such positions but, had felt the necessity of further instruction in their profession, and had passed through a course at this school. The importance of these schools is fully felt and appreciated in the oldest mining localities of Europe; but in California, where we are but just commencing to mine, it is at least practically assumed that we are in no need of such aids. The acknowledged mismanagement of so many of our mines affords the best commentary upon this assumption. Already we are receiving, in this city, from the local shareholders of many of our mines, earnest entreaties to directors here to send more capable superintendents to manage the works at the mine. Our daily papers are even publishing to the world complaints of this description. Yet our Legislature has just adjourned without even so much as considering the propriety of taking the initiatory steps for establishing such a school. In the meantime, however, some of our citizens, interested in mining matters, and who fully appreciate information in this direction have secured the services of Professor Price, of this city, in the establishment of a mining class, which is now "in the full tide of successful experiment," with nearly thirty members. The chief object of the establishment of this class has been the study and practice of assaying. Let us hope that out of it will grow a legitimate mining school where all the different subjects usually embraced in a thorough mining education may be taught. The regular evenings for this school are Tuesday and Saturday evenings of each week. The laboratory is also open for practice during the day time, for those who cannot make it convenient to attend in the evening.

THE LIBERATION OF IRELAND.—Ireland appears to be in a fair way of liberation from English rule. Statistics show that within the past twenty years while England has increased 25 per cent. Ireland has *decreased* in exactly the same ratio. At this rate another century will pretty effectually work out the liberation of Ireland, without any assistance from the "Fenian Brotherhood," or any other organization, civil or military, other than her self-constituted rulers. The green flag of Ireland will be transplanted to a foreign soil, and interwoven with the stars and stripes of America.

This process of denationalization is certainly one of the most remarkable events of the present age. The cause of this decadence is certainly not attributable to the Irish character. England and English policy is the agent that is rendering it impossible for one of the finest islands on the globe, blessed to profusion with the gifts of nature, to sustain her population. Yes, Ireland will indeed be liberated and the bitterness of hate against the English people, which is now confined to a narrow island, will soon be disseminated throughout the extent of a magnificent continent.

STRIKES.—The "Journeymen Iron Moulders' Protective Union" of San Francisco, struck for higher wages on Saturday last. They formerly received from $3 to $4 per day, and now demand $4 and $4 50, which latter wages the proprietors declare they cannot pay and compete with Eastern manufacturers, and they have accordingly telegraphed East for workmen. On Thursday the boiler-makers, to the number of about fifty, struck for an increase of pay from $4 to $4 50 per day.

DESULPHURIZING.

The experiments in "desulphurizing" the auriferous pyrites at Colorado appear to be creating much interest among the miners of that region. In addition to what we gave last week in relation to these experiments, we now add the following from the Colorado *Mining Journal* of March 12th:—

In a few remarks, on Dr. Keith's Desulphurizer, yesterday, we stated that the gentlemen of the firm were well satisfied as to the success of the principle to which they have devoted so much time, labor, and expense. Their theory is most beautiful, and they have succeeded, in a great degree, in the reduction of it to practice. None deny that the various antagonistic ingredients in the ore must be oxydized in order to save the gold; the question is, whether it can be done, perfectly, in the manner in which they have attempted it. So far, they have not done it perfectly, but as it only requires a greater heat or longer exposure of the ore to its action to effect this essential object, we say and they say, that they are satisfied as to the ultimate thorough realization of their theory.

But another question arises with us. Does not the gold, in this oxydising process, become more or less vaporized? thus passing off through the flue into the atmosphere. Messrs. Crosby and Millett, of the Excelsior Boston Mining Company of South Boulder, have been making experiments with a view to determine this question, which seem to favor the affirmative. Parcels of ore run through their desulphurizer—which perhaps burns more thoroughly than Keith's—when the flue carrying off the fumes led directly into the atmosphere, yielded very little gold; when it was bent down so as to precipitate the fumes and fine dust into a spray of water, they obtained gold in a larger quantity by five times from the same ore. These experiments, if they demonstrate anything, *demonstrate the fact that the gold in ordinary desulphurizing becomes vaporized and is carried off by the heavy draft into the atmosphere.* We are aware that the Messrs. Keith & Co., reject this idea, almost entirely, but it seems to us there is something in it, worthy of notice, nevertheless. Our object in adverting to it is to call the attention of experimenters to what has already been proven, that they may not lose time traveling over the same ground.

THE HOWELL CRUSHER.

Our Colorado neighbors are also still persistent in their efforts to render the Howell Crusher more available for reducing the quartz than the ordinary stamps. The *Journal* of the same date as above remarks on this machine:—The Howell Crusher has, after numerous experiments as to the best material for shoes and the most profitable rate of speed, been rendered available at least. Soft wrought iron, both for the corrugated rims and shoes, has been found to be the best material, while a reduction of speed from 2,500 to 1,500 revolutions per minute, not only performs the work better, but precludes the liability to accident from flaws in the iron, or rapid wearing in places. The gentlemen of the firm are satisfied with the general result of their operations, and while they are unabled to do themselves justice from the absence of the required machinery, are constantly perfecting their process, and learning what will be absolutely indispensable when they come to set it up. Their progress with the Howell Crusher alone has been in the highest degree satisfactory.

It will be observed from the above that the experiments alluded to have simply rendered this machine "available," from which we would infer that it cannot be considered a "success." The reason of this undoubtedly is that "speed," the principle on which its employment is based, has been sacrificed to faulty construction. No one who understands the working of the machine can question its complete success if it can be constructed so as to be driven up to 2,500 revolutions per minute, and especially when it has been rendered "available" at the reduced speed of 1,500. Good mechanics have no hesitation in pronouncing it safe to drive the one recently constructed at the Pacific Iron Works, in this city, at 2,500. It will soon be subjected to that test, and we shall be able to pronounce upon its results. We have much confidence, but not, as yet, implicit faith in this crusher.

The *Journal* says that those who are impatiently waiting on the results of operations in this process, may rest assured that they are not wasting time, and adds, "The Keith Process will undoubtedly justify all the expectations of its friends, if it does not greatly disappoint them for the better."

MINING SHARE MARKET.

The past has been a week of comparative quiet; the only feature of special interest has been the fluctuations in the Real del Monte. The amount of sales foot up at $1,341,982.

Ophir has declined, with increased transactions. In consequence of unusually heavy expenses, the directors have been obliged to suspend the dividend for March. The closing quotations are $1580@1590.

Gould & Curry is quiet at $4,500. A dividend of $125 per foot was paid on Tuesday last. The receipt of bullion for March was $549.000. The improvements which have been in progress for some time at the company's mill, are nearly completed.

Savage is quiet; we note sales of but 17 feet, at $2,580@2,610. A dividend of $50 per foot was payable on Tuesday last.

Challar may be quoted at $320, with light request.

Burning M scow is quiet at from $96@98.

Uncle Sam has materially improved and may be quoted at from $1,000@1,050.

Lady Bryan is not so much in request, although large transactions are reported—2,549 shares at from $45@54. The latest intelligence from the mine will be found noted elsewhere.

Yellow Jacket has found a buyer at $1,230, buyer 30; Justice at 140; Potosi 1,100, a material advance; Baltic has been heard from at 147, and Melones at 45.

North American still continues an important feature in the market; 2,600 shares have changed hands, mostly at a decline from last week's figures. The closing sales were $139.

We quote Daney at 104; Baltic 145; Nevada (J. G.) 150; Baltimore American 42; Imperial, 180; Pride of the West 93; Buckeye 15; Blue Ledge 22.50@25; Rock Island has advanced from 15 to 25.

Adriatic is in light request at 9; Burnside at 12; Central America 12; Lafayette 10; Bullion at 69. Michigan at 35@37; Caledonia Tunnel at 25; Jewett & Sheppard at 15—with a large run and important advance in Washoe; Original Hawkeye at 75; Crockett closed with considerable demand at 8@12.

Real del Monte has again become a leading feature of the market; 3,338 shares have changed hands since our last issue. Opening the week at from $36 @ 40, telegraphic dispatches announcing a large shipment of bullion, in addition to an important improvement in the new workings at the mine, were received on Tuesday, in consequence of which the stock advanced rapidly, till it reached $130, on Wednesday, with large sales at intermediate rates. It declined to $93 on Thursday, and closed at yesterday's board at $78, with a downward tendency.

Wide West has also been sympathetically affected, and has been largely called for during the last two days—459 shares having changed hands in that time.

Silver Hill has been heard from at $5; Josephine (Coso) at $2; and Coso at $3.

De Soto may be quoted at $36; Ben Franklin at $4; Baltic (H.) at 2.50; Washington, R. R., has sold at $10; Rough and Ready (Amador) at $70@75, and Kentucky, (copper) at $6.

SHAFTER'S MINING ADVERTISING BILL, which is now law, is given in another column. We have earnestly opposed the bill, believing it to be imperfect and liable to create confusion and dissatisfaction, if not litigation; yet as it is upon us for the next two years, we shall be gratified if our fears prove groundless. The papers of Nevada Territory are positive in denouncing the brief time allowed for advertising the delinquency of shareholders. The dailies of this city singularly harmonize in silence in regard to their opinions of the law. A working test will soon show the true color of the bill.

GREAT numbers of cattle have died from eating poisonous weeds; feed being scarce

NOVA SCOTIA GOLD MINES.—We have received a pamphlet of 56 pages, being a "Report of the Gold Property of the New York and Nova Scotia Gold Mining Company, with an introduction on the general structure and geology of the Nova Scotia Gold Mines, by BENJAMIN SILLIMAN, Jr.," of Yale college. The pamphlet contains much information of value and interest to the general reader, as aside from its particular object it also comprises a general treatise on gold mining in that part of the British dominions. We shall make extracts from it next week.

We would remark, in this connection, that the Professor will arrive in this city on the next, or subsequent steamer. He will probably make an extended tour of the mines of California and the adjacent Territory.

Ida Gold and Silver Mining Company, Russ District, Tulare county, California.—Notice is hereby given, that on SATURDAY, May 14th, 1864, at noon, there will be sold, at Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, a sufficient number of shares in the capital stock of the Ida Gold and Silver Mining Company, standing in the names of the following persons, to pay the Assessment (No. 6) of one dollar per share, levied December 2, 1863, and the Assessment (No. 7) of two dollars per share, levied March 2, 1864, together with the expenses of advertising and sale, unless the same shall have been previously paid—viz:

Names.	Certificates.	Shares.	Am't.
Allen, R. K.	411	10	$20
Allanas, Blancho E.	334	2	4
Bradley, Mrs. E. P.	161	2	4
Baldwin, Mrs. Lucinda	269	3	6
Braly, M. A.	209	12	24
Bellows, Horace	545	4	12
Browning, Jacob	201	5	10
Burke, M. J.	150	1	2
Carter, James T.	449	3	6
Cooke, Thomas	402	5	10
Dannenberg, Joseph	244	5	10
Davis, Henry L.	339	5	10
Davis William	440	20	40
Frel, Andrew	382	5	10
Frel, Andrew	462	2	4
Gray, Wm. J.	339	5	10
Gray, Wm. J.	434	14	28
Gray, Wm. J.	435	1	2
Gregg, Stephen	493	10	30
Green, H.	498	20	40
Green, H.	281	20	40
Greenwood, M.	208	3	6
Hatter, John	64	100	200
Haley, John A.	373	20	40
Hadler, Chas.	508	5	10
Hermann, Charles	267	11	22
Hermann, Charles	287	5	10
Hermann, Charles	296	5	10
Hermann, Charles	466	14	28
Hermann, Charles	468	10	20
Hemenway, H. C.	499	6	12
Heath, James	340	2	4
Heath, James	409	12	24
Heath, James	539	6	12
Hearn, John	360	10	20
Hitchings, Miss L. F.	430	2	4
Hodge, B. O.	6	5	15
Hodge, B. O.	7	5	15
Hodge, B. O.	8	5	15
Hodge, B. O.	187	5	15
Hodge, B. O.	242	2	6
Hoadley, Silas	361	4	8
Hopkins, M. J.	525	9	27
Ida Mill Mining Co.	554	8	24
Johnson, P. R.	577	3	6
Kellogg, James	223	10	20
Kellogg, James	235	8	16
Kellogg, James	278	18	36
Kellogg, James	437	50	100
Lewis, R. F.	374	2	6
Longley, J. P.	351	4	8
Lovejoy, R. B.	209	3	9
Lyles, T. W.	298	25	50
Matthews, Oscar L.	548	5	15
Matthews, Oscar L.	550	5	15
Mackenzie, Andrew	263	5	10
Mackenzie, Andrew	284	5	10
Mackenzie, Andrew	285	5	10
McInerney, Thomas	447	5	10
Miller, Leopold	171	5	10
Miller, Leopold	329	5	10
Miller, Leopold	367	5	10
Miller, Leopold	404	5	10
Miller, Leopold	405	2	4
Miller, Leopold	436	2	4
Miller, Leopold	476	8	16
Monithrop, J. L.	473	14	28
Pratt, W. P.	155	8	16
Pratt, W. P.	428	10	20
Pratt, W. P.	429	8	16
Rand, D. H.	538	6	12
Rowland & Walker	233	3	6
Roll, John	172	5	15
Roll, John	237	5	15
Roll, John	470	10	20
Schleicher, Jacob	387	5	10
Schleicher, Jacob	388	5	10
Schench, Hugo	215	5	10
Sperry, James A.	525	25	50
Sperry, James A.	5-6	10	20
Sperry, James A.	5-7	12	24
Silverthorn, W. H.	78	4	8
Silverthorn, W. H.	140	3	6
Swigert, Adam	363	2	4
Schmolz, William	206	10	20
Schmolz, Adolphus	554	5	10
Short, David M.	148	3	6
Short, Mrs. Emily	241	2	4
Scudder, Francis V.	485	5	10
Scudder, Francis V.	517	5	10
Taylor, John	578	2	6
Tabor & Hill	444	15	30
Tabor & Hill	445	10	20
Tabor & Hill	536	2	4
Trenkle, Emil	286	10	20
Trenkle, Emil	295	10	20
Wallack, D.	77	5	10
Walters, G. F.	516	5	10
Wheeler, Zenas	127	4	8
Whitney, J. P.	441	21	42
Wittram, Charles	240	20	40
Whitson, B. F.	487	25	50
Wood, Joseph	207	7	14
Wood, Joseph	376	2	4
Wuthrich, John	370	40	80
Wynkoop, George C.	58	8	16
Yeates, John L.	49	2	6

By order of the Board of Trustees.
DAVID WILDER, Secretary,
15-td No. 240 Montgomery street, San Francisco.

POWDER.—The ship Hare has recently arrived from New York with 90 tons of blasting powder,

Record of New Incorporations.

The following is a record of the names of the companies, location of the claims, and the names of the Trustees mentioned in the articles of incorporation, filed in the County Clerk's office, in this city, since our last report:—

Quibrula Honda G. & S. M. Co., Culiacon district, Sinaloa, Mexico; W. A. Caldwell, A. R. Barrington, G. W. Newmun.
Guadalupe de Yautunas G. & S. M. Co., Durango, Mexico; E. Gould, Thos. Doyle, J. R. Brett, C. B. Stover, R. W. Van Syckle.
Sawtelle G. & S. M. Co., Lander county, N. T.; Ed. H. Doty, Geo. Patch, James S. Kennedy, H. S. Romans, C. E. Abbott.
Sears G. & S. M. Co.; same as above.
Houton G. & S. M. Co.; same as above.
Mammoth Lodge Zilli G. & S. M. Co.; Lander county, N. T.; Jos. S. Friedman, C. Spencer, Joseph Warren, H. W. Bradley, John A. Reichert.
Mammoth Ledge Ashland M. Co.; same as above.
Pine Leaf G. & S. M. Co., Mono county, Cal.; B. M. Barker, N. G. French, N. B. Terwilleger, J. S. Knapp, H. Cailff.

NEVADA TERRITORY.

We gather from the Territorial papers the following names of mining companies which have recently filed papers of Incorporation in Nevada Territory:—

Fire King M. Co., Gold Hill district; T. Guerlin, A. Quinlan, A. Carre.
Peruvian G. & S. M. Co., Virginia district; Thomas McCluskey, S. G. Martin, M. McCluskey.
Hoover G. & S. M. Co., Washita district; Jacob A. Hoover, T. D. Edwards, Samuel Tipley.
New Mountain G. & S. M. Co., Blue Sulphur Springs district; B. Helm, Nicholas Meyer, Caspar Buob.
Winnemuc G. & S. M. Co.; Samuel B. Pierce, R. B. Doom, W. E. Hitchcock, J. A. Heslip, J. F. Burgin.
Washington G. & S. M. Co., Forlorn Hope lode; James Lassiter, E. W. Kiplinger, J. Gould.
Star Tunneling Co.; J. A. Blossom, Alonzo Fogg, I. Miller.
Sierra Tunneling Co.; L. D. Pettit, A. B. Peach, L. D. Wilber.
Illinois G. & S. M. Co., Red Mountain district; T. J. Richoy, Elijah Bartlett, Jeremiah Wilcox.

Cloverdale Mining Company, Sonoma County, California—Office, 430 Montgomery street, San Francisco.—Notice is hereby given, that in accordance with the laws of the State of California, the by-laws of the Company, and an order duly made by the Board of Trustees of the Cloverdale Mining Company, on the 31st of March, 1864, there will be sold at Public Auction, to the highest bidder for cash, in United States gold coin, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on WEDNESDAY, the 4th day of May, 1864, at 11 o'clock A. M., so many shares of the capital stock of said company, standing in the names of the following persons, as will be necessary for the payment of all delinquent assessments thereon, together with the expense of advertising and sale, unless the same are previously paid:

Names.	No. Asst.	No. Cert.	No. Shs.	Am't
T. T. Bradshaw	3	—	40	$10 00
H. Ellis	3	139	10	2 50
H. Ellis	3	140	10	2 50
H. Ellis	3	141	10	2 50
H. Ellis	3	143	10	2 50
J. W. Henderson	3	77	5	1 25
J. J. Haley	3	—	100	25 00
M. Werner	2 and 3		20	5 00
J. H. Whitman	2 and 3		4	2 00
— Mellon	3	144	2	50

15-4t M. WINN, Secretary.

NOTICE.

Notice is hereby given, that, in accordance with the laws of the State of California, and the by-laws of the Revere Gold and Silver Mining Company, there will be sold at Public Auction, at the salesroom of Jerome Rice & Co., 327 Montgomery street, in the city and county of San Francisco, California, on WEDNESDAY, the 27th day of April, 1864, at 11 o'clock A. M. of said day, so many shares of the capital stock of the Company standing in the names of the following persons as will pay the assessments now due, together with cost of advertising and sale.

John W. Clark	41 shares.	$10 25
Henry Bourne	205 "	51 25
Henry Stede	5 "	1 25
Wm. B. Hall	5 "	1 25
C. F. Lincoln	100 "	25 00
Martin Durfee	100 "	25 00
	456 shares.	$114 00

15-4t By order of the Board of Trustees. H. C. KIBBE, Sec'y.

Rock Rose Gold and Silver Mining Company, Gold Hill, N. T.—Office 605 Sacramento street, San Francisco, April 5th, 1864.—Notice is hereby given, that at a meeting of the Board of Trustees of the Rock Rose Gold and Silver Mining Company, held at the office of said Company, this day, there was duly levied an assessment of twenty-five cents on each and every share of the capital stock of said Company, payable immediately, in gold coin, to the Secretary, at the office of the Company, or to R. H. Nason, Superintendent, at the mine. By order of the Board of Trustees.

15-4t S. C. GARDNER, Secretary.

Prima Donna Gold and Silver Mining Company, Devil's Gate District, N. T.—Notice is hereby given, that the Board of Trustees of the Prima Donna Gold and Silver Mining Company, at a meeting held April 2d, 1864, levied an assessment (No. 6) of fifty cents on each and every share of the capital stock of said Company; said assessment payable immediately, in gold coin, to the Secretary, at 620 Washington street, San Francisco, or to FRANKLIN MORGAN, Superintendent, at Silver City, N. T.

15-4t H. D. CONGDON, Secretary.

Revere Gold and Silver Mining Company.—Notice is hereby given, that at a meeting of the Board of Trustees of the Revere Gold and Silver Mining Company, held this 26th day of March, 1864, an assessment of one dollar and fifty cents ($1.50) per share was levied upon each and every share of the capital stock of said Company, to be paid immediately, in United States gold coin, to the Secretary, at his office, northwest corner of Washington and Montgomery streets, in the city and county of San Francisco, California. By order of the Board of Trustees.

15-5t H. C. KIBBE, Secretary.

The Daily Evening Express, at Victoria, Vancouver Island is published by Messrs Wallace, Allen & Hardynge. Terms of subscription: One year, by mail, $10; six months, $6. It contains the late, Mining, Commercial, and General News, up to the hour of going to press. Being the ONLY EVENING PAPER published in Victoria, and having a circulation equal to any other Journal in the Colony, it will be found an excellent medium to enable advertisers to bring their notices before the Public.

W. H. TOBEY,
Agent, Government House, San Francisco. 15-1f

Two Good Canvassing Agents can find profitable employment by calling at this office. None but active and competent need apply.

The Whitman Mine, Como district, Washoe, is reputed to come fully up to the anticipations of its friends. The last clean up resulted in 1,068 ounces of bullion, which is looked upon as in the highest degree satisfactory, although the amount of rock crushed is not given. This rock is not taken *out* of the mine, at the usual expense of shafting, tunneling, etc., but is blasted *off* from the huge *croppings*, which tower up like a mountain above the ground level of the claim. A correspondent of the Virginia *Union* says :—"This splendid yield proves beyond a doubt the immense richness of the Whitman mine, and places it side by side at once with the far-famed Comstock. If the surface rock pays so well, how will it pay at the depth of a few hundred feet? In fact, if no better ore is ever discovered than these croppings show, it is a good thing enough, for there is plenty of it standing at the surface of the ground —enough to keep a hundred-stamp mill crushing steadily for a hundred years."

Since the above was in type we have been informed by parties who *ought to know*, that the *Union's* correspondent must have been greatly mistaken in his inferences, at least: and that no large amount of ore has ever been taken from the Whitman mine, which will pay a profit over expenses, unless it be from developments quite recently made and not reported in the Virginia papers. We give both sides of the story for what they are worth. It will be observed, from the above, that 1,068 ounces of bullion are said to have been taken from the crushing; the quantity of ore worked is not given. If 100 tons were crushed, the result is valueless; if but ten, it is highly important. We should be pleased to give full and reliable results if any one will furnish them. The location is a new one, and may be valuable.

Mining Notices.

Savage Mining Company, Zine House District, Nevada County, Cal.—San Francisco, March 26th, 1864.—A Stockholders meeting of the Savage Mining Company will be held at the Office of the Company, 645 Clay street, on Monday May 2nd, 1864, at 9 o'clock A. M. By order of the Board of Trustees.

14-4t M. G. ELMORE, Sec'y. *pro tem.*

Wide West Copper Mining Company, Office 645 Clay street, San Francisco, March 26th, 1864.—Notice is hereby given that an assessment, No. 3, of thirty cents per share was this day levied on each and every share of the Capital Stock of the Wide West Copper Mining Company, payable in U. S. Gold Coin, to the Secretary at the Office of the Company or to J. M. Pike, Superintendent Copperopolis. By order of the Board of Trustees.

14-4t M. G. ELMORE, Sec'y.

Enterprise Copper Mining Company, Placer County, Cal.—Office 615 Clay street, San Francisco.—At a meeting of the Board of Trustees of this Company, held March 12th, 1864, an assessment (No. 12) of 50 cents per share was levied upon each and every share of the capital stock of said Company, payable immediately, in gold coin, to Thos. Levy, Treasurer, at Lincoln, Placer county, or to the Secretary, at the office of the Company. The Board also gives notice that whatever assessments have been paid in on Numbers 7 to 11 inclusive will be credited on Assessment No 12. By order of the Board of Trustees. M. G. ELMORE, Sec'y.

San Francisco, March 12th, 1864. 14-tf

Roderick Gold and Silver Mining Company, Reese River Mining District, N. T.—Notice is hereby given, that at a meeting of the Board of Trustees of the above named Company, held this day (March 31st, 1864,) at the office of the Company, an Assessment of two dollars ($2) per share was levied on each and every share of the capital stock of said Company, payable immediately, in gold coin, at the office of the Secretary, No. 224 Montgomery street, San Francisco, or to Julius Siehel, Corresponding Secretary, at Austin, N. T. WM. T. ATWOOD, Secretary.

San Francisco, March 31, 1864. 14-4t

Index Mining Company (Location, Copper Canon District, Copperopolis, Cal.)—Office, 415 Montgomery street, San Francisco, March 30, 1864.—Notice is hereby given, that at a meeting of the Board of Trustees of the Index Mining Company, held March 23, 1864, an Assessment of fifty cents per share was levied upon the capital stock of the Company, and made due and payable immediately, in U. S. coin, to the Secretary, at the office of the Company. Certificates of stock are now ready for delivery on payment of this assessment.

☞ The first annual meeting of the Stockholders of the Index Mining Company will be held at the office of the Company on SATURDAY EVENING, APRIL 30, 1864, at 8 o'clock, for the adoption of by-laws, election of Trustees for the ensuing year, &c. By order of the Board of Trustees. [14-5t] RICHARD C. ALLEN, Sec'y.

Puritan Gold and Silver Mining Company, Devil's Gate District, N. T.—Notice is hereby given, that the Trustees of the Puritan Gold and Silver Mining Company have this day levied an Assessment (No. 2) of fifty cents on each and every share of the capital stock of said Company, payable immediately, in gold coin, to the Secretary; at the office, No. 620 Washington street, San Francisco, or to H. W. Arnold, at Silver City, N. T.

March 31st, 1864. (14-4t) H. B. CONGDON, Secretary.

Mr. Jarvis Jewett is our duly authorized advertizing agent and collector in this city.

McComb Gold & Silver Mining Company, Reese River District, Lander County, Nevada Territory, Office No. 1 & 2 Government House, corner of Washington & Sansome Sts., San Francisco.—Notice is hereby given that in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the McComb G. & S. M. Co., there will be sold at public auction at the Office of the Company, at 11 o'clock A. M. on Saturday, the 30th day of April 1864, so many delinquent shares of the Capital Stock of the McComb G. & S. M. Co., standing in the names of the following persons as will be necessary for the payment of assessment No. 1 of 50 cents per share, levied Nov. 28, 1863, together with costs of advertisement and expenses of sale, unless said assessment and charges are previously paid to the Secretary at the Office of the Company.

NAMES.	SHARES.	ASS'T.	AMOUNT.
Askins, T. J.	65	$32.50	$32.50
Eaton, Ira A.	45	22.50	22.50
McComb, Robt.	90	45 00	45.00
Molony, Jas. E.	62	31 00	31.00
Marshall, Chas.	49½	24.75	24.75
Rowe, John.	4½	2.25	2.25

No. 1 & 2 Gov't House. HENRY S. BROOKS, Sec'y.

San Francisco, March 25th, 1864. 13-5t

Plutus Gold & Silver Mining Company, Reese River Mining District, Lander county, N. T., office 1 and 2 Government House, northwest corner of Sansome and Washington streets, San Francisco.—Notice is hereby given, that, in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the Plutus Gold and Silver Mining Company, there will be sold at Public Auction, at the office of the Company, at eleven o'clock A. M., of SATURDAY, April 30, 1864, so many delinquent shares of the capital stock of the Plutus Gold and Silver Mining Company, standing in the name of the following persons, as will be necessary for the payment of Assessment No. 1, for thirty cents (30c) per share, levied August 21st, 1863; also Assessment No. 2, for seventy-five cents (75c) per share, levied November 23d, 1863; and Assessment No. 3, for fifty cents (50c) per share, levied January 26th, 1864, together with costs of advertising and expenses of sale, unless said assessments and charges are previously paid to the Secretary, at the office of the Company:

Names.	No. of Shares.	Asst. No. 1–30c	Asst. No. 2–75c.	Asst No. 3–50c.	Total am't
Atherton, A. P.	50	$15 00	$37 50	$25 00	$77 50
Allison, John	20			10 00	10 00
Bateman, I. C.	85		63 75	42 50	106 25
Boley, A. G.	10			5 00	5 00
Cleveland, Frank	150		112 50	75 00	187 50
Craig, R. B.	20			10 00	10 00
Harding, R. R.	50	15 00	37 50	25 00	77 50
Irvine, John	85	25 50	63 75	42 50	131 75
McComb, Wm.	85			42 50	42 50
Thompson, D. H.	150		71 25	67 50	138 75
Turner, Geo. R.	7	2 10	5 25	3 50	10 85
Wills, John M.	20			10 00	10 00
Woods, Phœbe A.	25			12 50	12 50

S. C. GALLAHER, Secretary.

No. 1 and 2 Government House, San Francisco.

San Francisco, March 25th, 1864. 13-5t

Monarch Gold and Silver Mining Company, Big Creek Mining District, Lander county, N. T., Office No. 1 and 2 Government House, corner Washington and Sansome streets, San Francisco.—Notice is hereby given, that, in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the Monarch Gold and Silver Mining Company, there will be sold at Public Auction, at the office of the Company, at 11 o'clock A. M., on SATURDAY, the 30th day of April, 1864, so many delinquent shares of the capital stock of the Monarch Gold and Silver Mining Company, standing in the names of the following persons, as will be necessary for the payment of Assessment No. 1, levied August 21st, 1863, of twenty cents per share, and Assessment No. 2, levied January 21st, 1864, of fifty cents per share, together with costs of advertising and expenses of sale, unless said assessments and charges are previously paid to the Secretary, at the office of the Company:

Names.	No. of Shares.	Asst. No. 1—20c.	Asst. No. 2—50c
Brown, Geo. W.	65		$32 50
Brown, H.	85		42 50
Davis, C.	85		42 50
Fisher, S. G.	60		30 00
Orotjan, G. W.	4		2 00
Haddock, R. W.	85		42 50
Irvine, John	50		25 00
Kasson, C. S.	4		2 00
Nahl, H. W. A.	4		2 00
Parsons, S. H.	50		25 00
Phelps, T. G.	4		2 00
Palmer, E. C.	4		2 00
Thompson, J. L.	85	$17 00	42 50
Turner, Geo. R.	8		4 00
Uhrig, C. A.	8		4 00

S. C. GALLAHER, Secretary,

Office Nos. 1 and 2 Government House.

San Francisco, March 25, 1864. 13v8-5t

Gold Point Gold and Silver Mining Company, Big Creek Mining District, Lander county, Nevada Territory, Office Nos. 1 and 2 Government House, corner Washington and Sansome streets, San Francisco.—Notice is hereby given, that, in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the Gold Point Gold and Silver Mining Company, there will be sold at Public Auction, at the office of the Company, at 11 o'clock A. M., on SATURDAY, the 30th day of April, 1864, so many delinquent shares of the capital stock of the Gold Point Gold and Silver Mining Company, standing in the names of the following persons, as will be necessary for the payment of Assessment No. 1, for twenty cents per share, levied August 21st, 1863, and Assessment No. 2, for thirty cents per share, levied December 1st, 1863, together with costs of advertising and expenses of sale, unless said assessments and charges are previously paid to the Secretary, at the office of the Company:

Names.	Shares.	Asst. No. 1—20c.	Asst. No. 2—30c
Brodhead, W. H.	200	$10 00	$60 00
Grotjan, G. W.	1	20	30
Marshall, Chas.	200	40 00	60 00
Parsons, S. H.	200		60 00
Turner, Geo. R.	9	1 80	2 70
Uhrig, C. A.	2	40	60
White, F. A.	200		60 00

S. C. GALLAHER, Secretary,

Office Nos. 1 and 2 Government House.

San Francisco, March 25th, 1864. 13-5t

JOHN DANIEL,
(SUCCESSOR TO O. GORI)
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Mantels, Monuments, Tombs, Plumbers' Slabs, Etc.,
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Enterprise Gold and Silver Mining Company, Location, El Dorado Canon, Arizona Territory.—Notice is hereby given, that, in accordance with the laws of the State of California, and in pursuance of an order made by the Board of Trustees of the Enterprise Gold and Silver Mining Company, at a meeting held March 23d, A. D. 1864, a sufficient number of shares of the capital stock of said Company, standing in the name of the following persons, will be sold at Public Auction, to the highest bidder for cash, in U. S. gold coin, at the office of the Company, No. 622 Washington street, San Francisco, on THURSDAY, the 28th day of April, A. D. 1864, at 2 o'clock P. M., as will pay Assessment No. 1 and 2, of amount and date as stated below, due and delinquent thereon, together with all costs accruing from advertising, sale, etc., if not previously paid—to wit:

Assessment No. 1, of fifty (50) cents per share, levied Sept. 7, 1864.

Names.	No. Shares.	Amt.
J. B. Williams.	250	$125 00
A. M. Bennett.	45	22 50
M. D. Fairchild.	50	25 00
S. L. DeLano.	10	5 00
C. A. James.	33	16 50
Robert Keir.	75	37 50
Alexander Keir.	75	37 50
William Wosenchraft.	75	37 50
C. W. Young.	2	1 00

Assessment No. 2, of fifty (50) cents per share, levied Feb. 8, 1864.

A. M. Bennett.	47	23 50
Thomas Brown.	5	2 50
J. P. Clark.	20	10 00
Joseph Coulter.	10	5 00
S. L. DeLano.	10	5 00
Columbia Dyer.	5	2 50
M. D. Fairchild.	35	17 50
C. Fink.	5	2 50
Jacob Heintz.	5	2 50
August Hess.	5	2 50
C. A. James.	40	20 00
O. E. Johnson.	25	12 50
Abraham Jones.	10	5 00
Robert Keir.	75	37 50
Alexander Keir.	75	37 50
John Miller.	100	50 00
J. F. Rider.	5	2 50
T. H. Williams.	255	127 50
William Wosenchraft.	75	37 50
C. W. Young.	5	2 50
F. A. Bruch.	10	5 00

By order of the Board of Trustees.

L. B. WOOSTER, Secretary,

13-4t Office 622 Washington street, Room 13, S. F.

Bay State Gold & Silver Mining Company, Turnback District, Tuolumne County, Cal.—At a meeting of the Board of Trustees of the Bay State Gold and Silver Mining Company, held the 23d day of March A. D. 1864, an assessment (No. 4.) of two ($2) dollars per share on each and every share of the Capital Stock of said Company, was levied, (for a Mill fund), payable immediately, in U. S. Gold Coin, to the Secretary, at the Office of the Company, southeast corner of Howard and Second Sts., San Francisco. By order of the Board of Trustees. J. F. HARRIS, Sec'y.

San Francisco, March 24th, 1864. 13-4t

Great Western Gold & Silver Mining Company, Keyes District.—Notice is hereby given, that by a resolution adopted by the Board of Trustees of the Great Western Gold & Silver Mining Company, at a meeting held on the 17th day of November 1863, an assessment of sixty-five cents was levied upon every share of the Capital Stock of said Company to be paid immediately in U. S. Gold Coin, to the Secretary, at the Office of the Company, No. 27 Government House, corner Washington and Sansome Sts.

Also, an assessment of twenty-five cents per share, on each and every share, levied on March the 17th, 1864, to be paid immediately, in U. S. Gold Coin, to the Secretary at his Office.

C. A. CRANE, Sec'y.

San Francisco, March 19th, 1864. 13-5t

Mount Eden Mining Company, Owen Lode, Gold Hill District, N. T.—Notice is hereby given that the Board of Trustees of the Mount Eden Mining Company, at a meeting held March 17th, 1864, levied an assessment (No. 2.) of fifty cents on each and every share of the Capital stock of said Company, said assessment payable immediately in U. S. Gold Coin to the Secretary at the Office of the Company, No. 620 Washington St., Room No. 3, or to Franklin Morgan, Esq., Superintendent at the mine.

13-5t H. B. CONGDON, Sec'y.

Picayune Gold, Silver and Copper Mining Company, Bear Gulch, Calaveras Co.—At a meeting of the Board of Trustees of the above Company, on the 17th day of February, 1864, an assessment of six cents per share on each and every share of the Capital stock of the said Company was levied, payable on or before the 22d day of March, 1864. And Notice is also hereby given that the first annual meeting of the Stockholders of the said Company will be held on Tuesday the 22d day of March 1864, at the office of the Company at Copperopolis, for the purpose of electing officers for the ensuing year, for the adoption of By-laws, and for the transaction of such other business as may come to its notice. All Stockholders are respectfully requested to attend.

By order of the Board of Trustees,

L. HONIGSBERGER, Sec'y.

Copperopolis, Feb. 17th, '64. 9v8-4t

Copperopolis, March 22d, 1864.

The above meeting has been postponed until the 29th of April next.

13-4d L. HONIGSBERGER Sec'y.

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—AND—
Commissioner of Deeds for Nevada Territory,
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10v8-3m SAN FRANCISCO.

E. A. HYDE,
Commission & Stock Broker,
AND MEMBER OF
The "Washoe Stock Exchange"
10v8-1m **Virginia, Gold Hill, N. T.**

H. C. KIBBE,
Mining Secretary,
Commissioner for Nevada Territory,
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Particular attention paid to Washoe, Esmeralda, and all other classes of Mining Stocks. Collections promptly attended to. Money to Loan on Stocks.
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HENRY BAKER AND JOS. N. SOUTHER,
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H. & S. will attend, in a prompt and satisfactory manner, to the Incorporation of Mining and other Companies, the purchase and sale of Stocks and Real Estate, and the adjustment of accounts.
8v8-m

H. S. HOMANS,
NOTARY PUBLIC,
And Commissioner of Deeds for Nevada Territory,
MINING SECRETARY, CONVEYANCER, ETC.,
New Stock Exchange rooms, Montgomery Street, next door to the Bulletin Office, SAN FRANCISCO. 1-1m

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☞ Deeds, etc., for record in Humboldt County, Nevada Territory, received and forwarded. 1-tf

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CHAPIN & POND,
STOCK BROKERS
No. 726 Montgomery street, Up Stairs
5v8-2m SAN FRANCISCO, CAL.

REMOVAL.
J. R. BEARD, STOCK BROKER,
MEMBER SAN FRANCISCO STOCK AND EXCHANGE BOARD,
HAS REMOVED HIS OFFICE TO
5v8-tf No. 707 Montgomery street, Brokers Block.

H. S. Saunders & Co.,
Stock Brokers,
Members of the Stock & Exchange (1st) Board and of the Pacific Board of Brokers.
Stock Exchange Room, No. 614 Montgomery street,
12v8-1m SAN FRANCISCO.

W. R. MAURICE,
Stock Broker, Real Estate Agent
And Mining Secretary.
Office, No. 708 Montgomery Street, San Francisco. Reference—Messrs. PARROTT & Co., Bankers. 8v8-tf

THOMAS HILL,
Member of the S. F. Stock and Exchange (1st) Board.
A. H. MURDOCK,
Member of Stock Exchange.
No. 623 Montgomery Street. Opposite Montgomery Block,
SAN FRANCISCO.

RICHARD WEGENER,
Accountant, Mining Secretary,
AND GENERAL AGENT.
No. 204 Montgomery St., Southeast cor. Montgomery & Pine Sts.,
11-m SAN FRANCISCO.

A. C. MORSE,
Mining and Real Estate Agent,
Office, S. W. corner Pine and Silver Sts., Aurora.
HAVING MADE ARRANGEMENTS WITH MINER S. MARTIN, Esq., one of the principal Stock Brokers of San Francisco, I am prepared to BUY and SELL every description of Mining Stocks in Esmeralda District. tf

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IMPORTER AND JOBBER OF
Staple and Fancy Dry Goods, Carpets, Duck, etc.,
-tf Corner of Front and Sacramento Streets, San Francisco.

D. NORCROSS,
MILITARY GOODS OF ALL DESCRIPTIONS. NAVY TRIMMINGS AND EMBROIDERIES. REGALIA FOR ALL ORDERS.
aug17-1f Masonic Temple, No. 6, Post Street.

Owen's River Canal Company.
FOR SALE, FOR ACCOUNT OF THE COMPANY, 7,000 SHARES of the above stock, at $1 per share. It is confidently presented to the public as the best investment, for the price, now offered this market.
Office of the Company No. 323 Montgomery street. 1tf

PIONEER FOUNDRY and MACHINE SHOP,
Lower Gold Hill.
Have Superior Facilities for Making
MINING & MILLING MACHINERY,
A COMPLETE SET OF MACHINE TOOLS WITH
PLANER,
ENABLES ME TO DO ALL KINDS OF
MACHINE WORK AT SHORT NOTICE.
RETORTS AND INGOT MOULDS,
STAMP SHOES AND DIES,
WHEELER, VARNEY AND HEPBURN
PAN SHOES CONSTANTLY ON HAND.
Plans, Specifications, and Drawings of all kinds of Mill and Mining Machinery made at short notice, by
13 OLIVER HYDE, JR.

E. D. Farrington,
ASSAYER.
No. 430 Montgomery street, San Francisco. N. B. Assays guaranteed. 8v8-1m

Riehn, Hemme & Co.,
ASSAYERS.
☞ Assays made of Ores, Minerals and Metals. ☜
CHAS. F. RIEHN, late U. S. Branch Mint, gives lessons in Assaying, also in Mineralogy and Chemistry, as far as required to become a practical Assayer.
REFERRED with permission to Messrs. F. Parrot & Co., R. B. Swain, Esq., Messrs. Alsop & Co., Messrs. Donohoe, Ralston & Co. 1

G. E. MOORE,
Assayer and Analytical Chemist,
Having established a Chemical Laboratory, furnished with every requisite for delicate Analytical work, is prepared to execute the Assay and Analysis of Ores, Mineral Waters, Guanos, etc., with accuracy and dispatch. No. 612 Sacramento Street.
REFERENCES:—Prof. J. D. Whitney, State Geologist, San Francisco; Alsop & Co., San Francisco; Sather & Church, San Francisco; John Parrott, San Francisco; D. O. Mills, Sacramento. 1tf

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Promptness and Accuracy Secured
BY THE USE OF THE MOST IMPROVED METHODS OF ANALYSIS!
Advantageous Terms for Prospector's Clubs and Mining Companies.
J. H. CHURCHILL, M. A.,
[FROM EUROPE.]
24 Government Block, corner of Sansome and Washington Streets, San Francisco.
☞ "HINTS FOR PROSPECTORS" free by post. 1lf

NORTH BEACH
Quartz Mill and Reduction Works
ARE PREPARED TO WORK GOLD AND SILVER ORES, IN large or small quantities.
Working assays made of small lots, and all kinds of ores crushed at short notice.
Our new and complete Machinery, will enable us to give results fully up to the merits of rock.
WHEELER & THAYER, Proprietors.
C. C. JONES, Amalgamator.
San Francisco, Oct. 13, 1863. j2tf

HOWLAND, BELL & CO.,
Copper Crushing and Grinding.
Attend to all kinds of Grinding & Crushing,
—SUCH AS—
COPPER ORES, MARBLE DUST, FIRE-BRICK DUST, DRUGS,
And Feed of all Kinds,
All of which will be Ground at the Shortest Notice.
—ALSO—
California Mineral Paint and Mineral Polishing Powder.
Works—No. 537 Market Street.
San Francisco, January 1st, 1864. 1-tf

JOHN TAYLOR,
—IMPORTER AND DEALER IN—
Druggists' and Chemists' Glassware,
And a Full Assortment of Assayers' Articles,
—INCLUDING—
Bullion and Assay Ballances, Furnaces, Muffles, Crucibles, Cupels, Acids, Etc., Etc.
Also—A Full Assortment of Reagents.
JOHN TAYLOR,
2-tf 514 Washington St., Up Stairs, San Francisco.

KUSTEL & DEETKIN'S
METALLURGICAL WORKS,
FOR THE REDUCTION OF
SILVER AND GOLD ORES, TAILINGS, SULPHURETS, ARENIURETS, ETC., ETC. CUPELLATIONS AND REFINING OF SILVER AND GOLD,
Practical Assays for Silver and Gold, in small and large quantities, by Smelting, Chlorination and Pan Manipulation.
WORKS—On the San Bruno Road.
OFFICE—No. 605 Montgomery St., San Francisco. nov7-1f

Pacific Metallurgical Works,
North Beach, San Francisco.
THE COMPANY HAVING BEEN TO A LARGE EXPENSE IN enlarging their Works, are now prepared to contract to work any quantity of Gold and Silver Rock, nearer the true assay than any other Company in this Country, or Europe.
G. T. FOUQUE, Superintendent.
S. C. BRADSHAW, JR., Secretary.
Office, 511 Sacramento street, San Francisco. 3-tf

Stock Reports.

SAN FRANCISCO STOCK BOARDS.

Sales by the San Francisco Stock and Exchange Board, the Stock Exchange, the City Stock Exchange Board of Brokers, and the Pacific Board of Brokers.

[Revised for the Mining and Scientific Press.]

Saturday, April 2, 1864.

S. F. STOCK AND EXCHANGE BOARD.

60 shares Ophir at $1600.
10 do Burning Moscow at $96.
63 do Burning Moscow at 95.
35 do Burning Moscow at $100, b 30.
20 do Burning Moscow at 100, b 20.
5 do North Potosi at $20.
35 do North Potosi at 30.
10 do Burnside at $12.
30 do Real del Monte at 37.
8 do Real del Monte at 37.
60 do Lady Bryan at $49.
40 do Lady Bryan at 48.
40 do Lady Bryan at 47, s 30.
10 do Lady Bryan at 46, s 30.
10 do Lady Bryan at 48, s 2.
5 do Lady Bryan at 50.
20 do Rock Island at $15.
20 do Central American at $6¼.
20 do Central American at 6¼.
10 do North American at $135.
30 do North American at 167½.
20 do North American at 165.
20 do North American at 160.
10 do Baltimore American at $39.
8 do Bullion, C. H., at $12.
7 do Michigan at G. H., at $32.
20 do Baltic at $145, b 10.
5 do Baltic at 147, b 30.
10 do Baltic at 140, b 10.
5 do Melones at $45.
20 do Buckeye at $13.

AFTERNOON SESSION.

45 do North American at $130.
30 do North American at $125.
20 do North American at 127.
20 do North American at 125, s 30.
20 do North American at 135.
80 do North American at 140.
10 do North American at 142½.
10 do North American at 150, b 30.
10 do North American at 138, s 10.
10 do North American at 137½.
30 do North American at 139.
60 do Lafayette, G. H., at $10.
50 do Imperial at $155.
10 do Imperial at 160.
5 do Baltimore American at $37½.
10 do Lady Bryan at 50, b 10.
50 do Blue Ledge at $17, s 30.
5 do Burning Moscow at 104, b 30.
10 do Burning Moscow at $105, b 20.

PACIFIC BOARD OF BROKERS.

40 bo Daney at $125 per foot, b 30.
15 do Adriatic at $8.
20 do Real del Monte at $37½.
8 do Real del Monte at 38.
10 do Real del Monte at 40, b 30.
40 do Lady Bryan at $49½.
40 do Lady Bryan at 50.
10 do Lady Bryan at 50¼.
10 do Lady Bryan at 50½.
10 do Lady Bryan at 51.
40 do Lady Bryan at 51, b 10.
5 do De Soto at $36.
20 do Central American at $7.
10 do Central American at 7½.
30 do Central American at 8.
10 do North Potosi at $31.
8 do Real del Monte at 37.
20 do North American at $140.
10 do Lady Bryan at $48.
10 do Lady Bryan at 48½.
30 do Lady Bryan at 49.
10 do Caledonia Tunnel at $25.
10 do Santa Rosa, V., $4¾.

STOCK EXCHANGE.

5 do Harmon at $42½.
26 do Mt. Davidson at $1¾.
40 do Blue Ledge at $19¼.
5 do Blue Ledge at 19½.
10 do Blue Ledge at 20¾, b 30.
5 do Caledonia Tunnel at $23½.
10 do Michigan, G. H., at $37.
15 do Lady Bryan at 43½.
18 do Josepbine, Coso, at $1½.
20 do Harmon, E., at $42¾.
15 do Harmon at 43.
10 do Harmon at 45, b 30.
10 do Lady Bryan at 48½.

CITY STOCK AND EXCHANGE BOARD OF BROKERS.

10 do Washington, R. R., at $10.
30 do Harmon at $44.
8 do Chollar at $310 per foot.
10 do Lady Bryan at 40½.
10 do Blue Ledge at $19¼.
10 do Blue Ledge at 19¾.
50 do Young Harmon at $2¼.

S. F. Stock and Exchange Bd. sales....$188,075 00
Sales by the Pacific Board of Brokers.. 21,274 00
Sales by the Stock Exchange..... 6,085 00
City Stock Exchange Sales..... 4,894 00

Total sales of the day, by all Boards, 220,328 00

Monday, April 4.

S. F. STOCK AND EXCHANGE BOARD.

164 shares Daney at $100 per foot.
1 do Savage at $2600.
9 do Savage at 2610.
5 do Uncle Sam at $890.
2 do Uncle Sam at 900.
1 do Uncle Sam at 925, b 30.
28 do Real del Monte at 36.
39 do Real del Monte at 36½.
20 do Real del Monte at 40, b 30.
10 do Real del Monte at 37
80 do North American at $140.
30 do North American at 139.
30 do North American at 138.
10 do North American at 137, s 4.
10 do North American at 136, s 30.
10 do North American at 140, b 10.
10 do Imperial at $162½.
10 sharss Imperial at 172½, b 30.
10 do Nevada, J. G., at $140, 10 d.
10 do Nevada, J. G., at 130.
10 do Nevada, J. G., at 125.
60 do Lady Bryan at $50.
30 do Lady Bryan at 49½.
20 do Lady Bryan at 49, s 10.
20 do Lady Bryan at 49, s 5.
20 do Lady Bryan at 48½ 30.
12½ do Pride of the West at 86.
10 do Burning Moscow at $98.
10 do Caledonia Tunnel at $24.
10 do Rock Island at $18.
20 do Rock Island at 20, s 4.

AFTERNOON SESSION.

5 do Imperial at $162½.
10 do Imperial at 180, b 30.
10 do Imperial at 170.
10 do Imperial at 178, b 30.
5 do Nevada, J. G., at $125, b 3.
1 do Nevada, J. G., at 130.
10 do Bullion at $77, b 30.
10 do Central American at $10.
10 do Central American at 10¾.
25 do Rock Island at $24.
15 do North American at 130, s 30.
10 do North American at 136.
37 do North American at 132½, s 30.
60 do North American at 135.
20 do North American at 133, s 30.
10 do North American at 137½, b 30.
10 do North American at 140, s 60.
10 do Pride of the West at $95, 90 d.
5 do Pride of the West at 92½.
5 do Pride of the West at 94.
1 do Real del Monte at 37.
10 do Real del Monte at 37½.

PACIFIC BOARD OF BROKERS.

00 do Lady Bryan at $50.
30 do Lady Bryan at 50¼.
10 do Lady Bryan at 51.
10 do Lady Bryan at 53, b 15.
10 do Lady Bryan at 48, s 30.
10 do Lady Bryan at 52½, b 30.
5 do Lady Bryan at 52.
10 do Lady Bryan at 49½.
20 do Lady Bryan at 51, b 10.
10 do Lady Bryan at 54, b 30.
5 do De Soto at $36.
20 do Santa Rosa at $4.
10 do Santa Rosa at $4½.
50 do Sacramento East, S. R., at $3.
15 do Bullion at $77½, b 30.
5 do Bullion at 72.
30 do Central American at $10, b 5.
10 do Central American at 9¾.
10 do Central American at 10.

STOCK EXCHANGE.

20 do Lady Bryan at 50.
10 do Lady Bryan at 50½.
30 do Buckeye at $16, b 30.
1 do Real del Monte at 37¾.
12 do Blue Ledge at $18½.
10 do Santa Rosa at $5.
5 do Caledonia Tunnel at $24.
50 do Laurel Hill at 2½.
5 do Caledonia Tunnel at $24.
5 do Caledonia Tunnel at 24¼.
5 do Caledonia Tunnel at 25, b 10.
5 do Caledonia Tunnel at 25.
10 do Caledonia Tunnel at 27, b 30.
10 do Caledonia Tunnel at 27½, b 30.
10 do Caledonia Tunnel at 26½.
4 do Original Hawkeye at $60.

CITY STOCK AND EXCHANGE BOARD OF BROKERS.

10 do Jewett & Shepherd at $15.
30 do Lady Bryan at 50.
10 do Lady Bryan at 49¾.
10 do Blue Ledge at 20½, b 30.
10 do Blue Ledge at $19.
20 do Buckeye at $14.

S. F. Stock and Exchange Bd. sales....$135,800 00
Stock Exchange sales..... 4,081 00
Sales by the Pacific Board of Brokers.. 12,847 00
City S. Exchange Bd. of Broker's sales. 2,830 00

Total sales of the day, by all Boards,. 155,558 00

Tuesday, April 5.

S.F. STOCK AND EXCHANGE BOARD.

120 shares Daney at 2100 per foot.
72 do Ophir at $1600 per foot.
4 do Gould & Curry at $4450 per foot.
5 do North Potosi at $.9.
15 do North Potosi at 30.
10 do Imperial at $180, b 30.
14 do Imperial at 170.
15 do Real del Monte at $43.
10 do Real del Monte at 45.
15 do Real del Monte at 50.
50 do Real del Monte at 47½, s 60.
10 do Real del Monte at 55, b 20.
5 do Real del Monte at 55.
10 do Real del Monte at 56.
2 do Real del Monte at 60.
10 do Real del Monte at 62.
30 do Real del Monte at 60, s 30.
40 do Real del Monte at 62½, s 30.
60 do Real del Monte at 64.
165 do Real del Monte at 65.
10 do Real del Monte at 65½.
45 do Real del Monte at 66.
20 do Real del Monte at 67.
20 do Real del Monte at 65, s 30.
20 do Real del Monte at 67½.
20 do Real del Monte at 68.
34 do Real del Monte at 68½.
130 do Real del Monte at 69.
20 do North American at $130.
5 do North American, at 125.
55 do North American at 126.
66 do North American at 124.
55 do North American at 122½, s 30.
20 do North American at 120, s 60.
15 do Nevada, J. C., at $115.
10 do Nevada, J. G., at 120, b 30.
10 do Nevada, J. C., at 118, b 30.
10 do Lady Bryan at $50.
15 do Lady Bryan at 49.
35 do Lady Bryan at 49¼.
10 do Seneca at $10.
50 do Rock Island at $26.
5 do Pride of the West at $95.
7 do Blue Ledge at $20, b 30.
5 do Baltimore American at $43, b 3.
10 do Baltimore American at 44, b 30.
5 do Burning Moscow at $100.

AFTERNOON SESSION.

10 do Potosi at $1100 per foot.
2 do Nevada, J. G., at $105.
3 shares Nevada, J. C., at 105, b 30.
20 do Nevada, J. G., at 90.
10 do Nevada, J. G., at 96, b 30.
70 do North American at $133, b 30.
70 do North American at 126.
30 do North American at 126.
10 do North American at 127½.
30 do North American at 135, b 30.
10 do North American at 127.
30 do North American at 128.
10 do North American at 136, b 30.
20 do North American at 135.
15 do North American at 130.
10 do North American at 132½.
20 do North American at 125, s 60.
10 do North American at 133.
15 do North American at 140, b 30.
10 do North American at 134.
58 do Real del Monte at $65.
4 do Real del Monte at 66.
35 do Caledonia Tunnel at $24.
3 do Imperial at $175.

PACIFIC BOARD OF BROKERS.

70 do Lady Bryan at 50.
35 do Lady Bryan at 51.
20 do Lady Bryan at 51, b 5.
20 do Lady Bryan at 50¾.
20 do Lady Bryan at 40, s 30.
10 do Lady Bryan at 49.
48 do Lady Bryan at 48.
10 do Real del Monte at 39.
30 do Real del Monte at 39½.
58 do Real del Monte at 40.
10 do Real del Monte at 42, b 30.
25 do Real del Monte at 66.
2 do Real del Monte at 67½.
140 do Real del Monte at 68.
15 do Real del Monte at 71, b 10.
5 do Real del Monte at 71, b 5.
5 do Real del Monte at 72, b 30.
5 do Real del Monte at 60, s 60.
5 do Bullion at $69.
10 do Sacramento East, S. R., at $3¼.
50 do Ben Franklin, H., at $4.
50 do Burnside at $12.
55 do Buckeye at $13.
10 do Burning Moscow at 101.
29 do Central American at 10¾.

STOCK EXCHANGE.

26 do Real del Monte at $60.
28 do Real del Monte at 61.
10 do Real del Monte at 62.
15 do Real del Monte at 66.
10 do Real del Monte at 64.
37 do Real del Monte at 65.
10 do Harmon at $39.
10 do Caledonia Tunnel at $25.
5 do Blue Ledge at $19.
21 do Crown Point Ravine at $6.
20 do Real del Monte at $66½.
26 do Real del Monte at 66.
10 do Real del Monte at 67.
5 do Real del Monte at 68.
5 do Real del Monte at 67½.
10 do Real del Monte at 65½.
5 do Harmon at $39.
10 do Harmon at 37½.
10 do Harmon at 36.
10 do Nightingale, V., at $18.

CITY STOCK AND EXCHANGE BOARD OF BROKERS.

10 do Harmon at $45.
10 do Harmon at 44.
10 do Farmon at 42.
20 do Harmon at 39.
10 do Harmon at 35.
15 do Real del Monte at $70.
75 do Amargoza at $7.
100 do Baltic, H., at $2½.
10 do Josephine, Coso, at $2.

S. F. Stock and Exchange Bd. sales....$192,906 00
Pacific Board of Brokers' sales..... 24,096 00
Stock Exchange sales..... 14,947 00
City Stock & Exchange sales, ... 4,285 00

Total sales of the day by all Boards,.. 236,234 00

Wednesday, April 6.

S. F. STOCK AND EXCHANGE BOARD.

12 shares Ophir at $1540.
15 do Pride of the West at $95.
35 do Real del Monte at $67½.
10 do Real del Monte at 68.
45 do Real del Monte at 75.
30 do Real del Monte at 77.
20 do Real del Monte at 78.
10 do Real del Monte at 80.
10 do Real del Monte at 82.
30 do Real del Monte at 82½.
25 do Real del Monte at 90.
10 do Real del Monte at 96.
20 do Real del Monte at 100
10 do Real del Monte at 102.
10 do Real del Monte at 115.
100 do Real del Monte, at 120.
5 do Real del Monte at 125.
20 do Real del Monte at 127½.
10 do Real del Monte at 130.
10 do Real del Monte at 118.
35 do Real del Monte at 121.
25 do Lady Bryan at $46¾.
20 do Lady Bryan at 45.
30 do Lady Bryan at 45¾.
35 do Lady Bryan at 46.
50 do Lady Bryan at 47.
5 do Lady Bryan, at 48.
6 do North American at $130.
8 do North American at 132½.
10 do North American at 132.
20 do North American at 140, b 30.
10 do North American at 134.
10 do North American at 137½.
10 do North American at 140.
10 do North American at 137½, s 30.
30 do North American at 135.
5 do North American at 145, b 30.
10 do North Potosi at $30.
10 do Central American at $11.
30 do Nevada, J. G., at $100, b 30.
25 do Nevada, J. G., at 90.
10 do Nevada, J. G., at 96, b 30.
2 do Nevada, J. G., at 100.
10 do Seneca at $10.
80 do Buckeye at 13.
10 do Lafayette, G. H., at $13.
5 do Baltic at $130, b 30.
5 do Uncle Sam at $900, b 30.

AFTERNOON SESSION.

12 shares Chollar at $325 per foot.
60 do Lady Bryan $50.
50 do Lady Bryan $50¼.
25 do Lady Bryan at $52½, b 30.
25 do Empress, G. H., at $24.
25 do Empress, G. H., at $25.
30 do Nevada, J. G. at $100.
5 do Nevada, J. G. at $102, b 30.
5 do Nevada, J. G. at $102½, b 30.
10 do Nevada, J. G. at $105. b 30.
10 do Baltic at $125.
5 do Baltic at $137½, b 30.
7 shares Wide West at $20.
6 do Uncle Sam at $1.000, b 30.
10 do North American at $135.
15 do Real del Monte at $95.
13 do Real del Monte at $80.
20 do Real del Monte at $92.
10 do Real del Monte at $100, b 30.
25 do Real del Monte at $100.
10 do Real del Monte at $102½.
3 do Real del Monte at $102.
5 do Real del Monte at $104.
10 do Real del Monte at $106.
17 do Real del Monte at $107½.

PACIFIC BOARD OF BROKERS.

60 do Lady Bryan at 46¾.
40 do Lady Bryan at 46, s 10.
30 do Lady Bryan at 46¾.
10 do Lady Bryan at 46¾.
50 do Lady Bryan at 47.
65 do Lady Bryan, at 48.
20 do Lady Bryan at 47½.
60 do Lady Bryan at 49.
10 do Lady Bryan, at 49, b 10.
10 do Lady Bryan at 50, b 30.
10 do Lady Bryan at 51, b 30.
25 do Real del Monte at 66.
50 do Real del Monte at 66½.
15 do Real del Monte at 67.
10 do Real del Monte at 69, b 30.
5 do Real del Monte at 70, b 30.
5 do Real del Monte at 105.
32 do Real del Monte at 105.
2 do Real del Monte at 110.
10 do Real del Monte at 80, s 30.
5 do Real del Monte at 104.
5 do Real del Monte at 109.
5 do Real del Monte at 105.
10 do Nightingale, V., at $17.
5 do Harmon at $33.
5 do Harmon, at $35.
10 do Kohler Bros. at $11.
7 do Adriatic at $9.
10 do Blue Ledge at $20, b 30.
20 do Burnside at $12 50.
5 do Burning Moscow at 108, b 30.
10 do Baltimore American at $45, b 30.
10 do Central American at $10½.
10 do Central American at 11.
5 do North American at 136¾.

STOCK EXCHANGE.

8 do Real del Monte at $113.
11 do Real del Monte at 115.
21 do Real del Monte at 112.
5 do Real del Monte at 117.
5 do Real del Monte at 125.
5 do Real del Monte at 110.
5 do Seneca at $11¾.
10 do Silver Hill at $8.
10 do Silver Hill at 7.
40 do Coso at $2.
10 do Real del Monte at $107, b 10.
5 do Real del Monte at 105, b 10.
30 do Crockett at $9.
60 do Crockett at 8¾.
10 do Crockett at 10½, b 30.
10 do Crockett at 8¾.
20 do Harmon at $34.
25 do Lady Bryan at $51.
5 do Lady Bryan at $51.
10 do Wide West at $21.
5 do Wide West at 22½.

CITY STOCK AND EXCHANGE BOARD OF BROKERS.

20 do Buckeye at 15, b 30.
10 do Buckeye at $13¾.
10 do Buckeye at 16, b 30.
5 do Real del Monte at $115, s 5.
5 do Real del Monte at 103.
4 do Real del Monte at 110.
10 do Kentucky, copper, at 6.

S. F. Stock and Exchange Bd. sales.....$149,963 00
Stock Exchange sales,..... 14,097 60
Sales by the Pacific Board of Brokers.. 34,901 00
Sales by the City Stock Exchange..... 2,215 00

Total sales of the day, of all Boards,.. 201,176 00

Thursday, April 7.

S. F. STOCK AND EXCHANGE BOARD

12 shares Ophir at $1540 per foot.
3 do Uncle Sam at $1000 per foot.
1 do Uncle Lam at 1050, b 30.
3 do Uncle Sam at 1025, b 30.
5 do Burnside at $12.
20 do Imperial at $175, b 30.
10 do Imperial at 175.
20 do Caledonia Tunnel at $25.
10 do Wide West at $30.
5 do Wide West at $27½.
10 do Rock Island at $25.
10 do Real del Monte at $95.
15 do Real del Monte at 100.
5 do Real del Monte at 101.
10 do Real del Monte at 103.
20 do Real del Monte at 98.
10 do Real del Monte at 94.
10 do Real del Monte at 92.
10 do Real del Monte at 91.
6 do North American at $142½.
60 do North American at 145.
90 do North American at 140, s 30.
10 do North American at 146.
10 do North American at 142, s 30.
70 do North American at 150, b 30.
20 do North American at 130, s 60.
5 do North American at 144.
10 do North American at 140, s 15.
10 do Knickerbocker at 40.
20 do Knickerbocker at 42.
10 do Knickerbocker at 43.
10 do Baltimore American at $42.
5 do Nevada, J. G., at $105, b 30.
10 do Nevada, J. G., at 100.
10 do Nevada, J. G., at 107, b 30.
2 do Nevada, J. G., at 105.
10 do Nevada, J. G., at 106.
5 do Nevada, J. G., at 110, b 30.
10 do Nevada, J. G., at 112.
10 do Nevada, J. G., at 115.
25 do Nevada, J. G., at 110.
5 do Nevada, J. G., at 120, b30.
10 do Nevada, J. G., at 112½.
15 do Burning Moscow at $96.
5 do Whitman at $40.
65 do Lady Bryan at $49.
20 do Lady Bryan at 52, b 30.
10 do Lady Bryan at 48, s 10.
10 do Lady Bryan at 45, s 5.
125 do Lady Bryan at 48¾.
10 do Lady Bryan at $47½, s 10.

AFTERNOON SESSION.

4 do Chollar at $320 per foot.
24 do Daney at $104.
16 do Real del Monte at $74.
50 do Real del Monte at $74½.
30 do Real del Monte at $73,
10 do Real del Monte at $75.
10 do Real del Monte at $72.
80 do Real del Monte at $70.
5 do Real del Monte at $69.
20 do Empress, G. H. at $25.
27 do Wide West at $30, b 30.
21 do Wide West at $28.
50 do Wide West at $29.
5 do Nevada, J. G. at $120.
11 do Nevada, J. G. at $125
10 do Nevada, J. G. at $150, b 30.
60 do Nevada, J. G. at $130.
20 do Nevada, J. G. at $129,
5 do Nevada, J. G. at $13-.
5 do Nevada, J. G. at $137½, b 3 30.
40 do Original Hawkeye at $75. b 30.
200 do Blue Ledge at $22. b 30.

10 do Knickerbocker at $10.
15 do Knickerbocker at $50¼, s 30.
10 do Imperial at $180, b 30.
5 do Burning Moscow at $98.
10 do Lady Bryan at $47½.
15 do Lady Bryan at $48.
30 do North American at $142½.
30 do North American at $140.
30 do North American at $145, b 30.
30 do North American at $137½, s 30.
10 do North American at $141.
3 do North Potosi at $35.

PACIFIC BOARD OF BROKERS.

30 do Real del Monte at $100.
30 do Lady Bryan at $48, s 30.
61 do Lady Bryan at $49.
10 do Lady Bryan at $49½.
10 do Lady Bryan at $49¾.
10 do Nightingale, V. at $20.
10 do Blue Ledge at $19¼.
20 do Blue Ledge at $20
20 do Blue Ledge at $21, b 30
10 do Central American at $12, b 30.
5 do Real del Monte at $82½.
10 do Real del Monte at $80.
30 do Real del Monte at $70, s 30.
10 do Real del Monte at $81.
10 do Real del Monte at $75.
15 do Real del Monte at $80, s 60.
10 do Real del Monte at $70.
10 do Real del Monte at $67½, s 10.
15 do Real del Monte at $76.
5 do Real del Monte at $74.
10 do Real del Monte at $60, s 30.
10 do Real del Monte at $77.
30 do Buckeye at 18.
10 do Lady Bryan at $48.
12 do Empress a, $25.
30 do Lady Bryan at $47½.
2 do North American at $142¼.
25 do Blue Ledge ar $25, b 60.
10 do Wide West at $28.
10 do Lady Bryan at $47¾.
25 do Wide West at $30.
10 do North American at 140.
10 do North American at $152¼, b 30.
10 do Wide West at $32. b 30,

STOCK EXCHANGE.

10 do Seneca at $14, b 30.
11 do Seneca at $12.
10 do Crockett at $12.
20 do Crockett at $11¼.
10 do Crockett at $10½.
30 do Crockett at $10.
20 do Crockett at $9¾.
10 do Crockett at $9.
45 do Wide West at $30.
30 do Wide West at $29.
20 do Wide West at $29¼.
5 do Lady Bryan at $48¼.
5 do Real del Monte at $90
10 do Real del Monte at $87½.
30 do Crockett at $8.
20 do Harmon at $30.
5 do Harmon at $31.

CITY STOCK AND EXCHANGE BOARD OF BROKERS.

10 do Blue Ledge at $21, b 30.
1 do Yellow Jacket at $1,130, b 30.
10 do Wide West at $29¼.
5 do Wide West at $34, b 30.
5 do Real del Monte at $82½.
10 do Real del Monte at 70.
20 do Real del Monte at 67.
20 do Real del Monte at 61.
40 do Crockett Consolidated at $3½.
10 do Lady Bryan at $48½.

S. F. Stock and Exchange Bd. sales.....$176,961 00
Stock Exchange sales..... 5,244 00
Pacific Board of Brokers' sales..... 28,192 00
Sales by the City Stock Exchange..... 6,199 00

Total sales of the day, by both Bds,... 216,596 00

Friday, April 8.

S. F. AND EXCHANGE BOARD.

4 shares Gould & Curry at $4,500 per foot.
12 do Ophir at $1,580 per foot.
96 do Ophir at 1,590 per foot, steamer day.
12 do Ophir at 1,600 per foot, b 30.
10 do Baltic at $140,
20 do Nevada, J. G., at $140.
30 do Nevada, J. G., at 134.
5 do Nevada, J. G., at 140.
10 do Real del Monte at $88.
10 do Real del Monte at 90 b 30.
10 do Real del Monte at 86½.
50 do Real del Monte at 86.
10 do Real del Monte at 85½.
10 do Real del Monte at 85.
5 do Real del Monte at 82.
10 do Real del Monte at 80.
10 do Real del Monte at 78.
5 do Real del Monte at 77½.
10 do Real del Monte at 77.
40 do North Potosi at $40.
20 do North Potosi at 41.
50 do Buckeye at $17, b 30.
15 do Burning Moscow at $97.
15 do Burning Moscow at 96.
10 do Burning Moscow at 95.
5 do Burning Moscow at 94.
5 do Rock Island at $26.
10 do Rock Island at 28, b 30.
50 do Rock Island at 25.
10 do Lady Bryan at $46, s 10.
10 do Lady Bryan at 47.
20 do Lady Bryan at 47, s 15.
35 do Lady Bryan at 47½.
20 do Baltimore American at $42.
25 do Blue Ledge at $25, b 30.
50 do Blue Ledge at 20, s 30.
45 do Knickerbocker at $40.
5 do Wide West at $23.
24 do Wide West at 22½.
20 do Burnside at $12.

AFTERNOON SESSION.

17½ do Sacramento & Meredith at $45.
2½ do Sacramento & Meredith at $46.
50 do Empress at $30, b 3.
5 do Empress at $30, r w.
10 do Rough & Ready, (Amador Co.) at $70
10 do Rough & Ready, (Amador Co.) at $75.
10 do North Potosi at $42.
20 do North Potosi at $43.
10 do North Potosi at $47½, b 30.
15 do North Potosi at $44.
5 do North Potosi at $45.
2 do Savage at $2,580.
5 do Savage at $2,600.
60 do Buckeye at $16.
10 do Burning Moscow at $95, b 30.
10 do Justis at $140, b 30.
8 do Ophir at $ 590, Steamer Day.
1 do Ophir at $ 580.
5 do Real del Monte at $78.
35 do Real del Monte at $77.
10 do Real del Monte at $76½.
5 do Lady Bryan at $48.
5 do Baltic at $145.
30 do Baltimore American at $42.
40 do North American at $137¾.
5 do North American at $139.
20 do North American at $.38.
13 do Blue Ledge at $22½.

PACIFIC BOARD OF BROKERS.

10 do Nevada, J. C., $160, b at 30.
4 do Burning Moscow, at $95.
20 do Caledonia Tunnel, at $25.
3 do Baltimore American, at $40.
5 do Spanish No. 2, at $20.

San Francisco Stock and Exchange Board.—Prices Bid and Asked.

	Sales.	Value.	Saturday.		Monday.		Tuesday.		Wednesday.		Thursday.		Friday.	
WASHOE STOCKS.	PERT. SHARES.	VAL.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.
Ophir	1,400	16,800	3000	1,600	1,600	1,580	1,600	1,600	1,600	1,630	1,580	1,600	1,570	1,580
Gould & Curry	1,200	4,800	600	4,425	4,450	4,525	4,650	4,450	4,475	4,450	4,500	4,400	4,475	4,500
Savage	800	800	2,000	2,500	2,450	2,610	2,650	2,550	2,600	2,500	2,600	—	2,500	2,600
Chollar	1,400	5,600	800	310	340	300	—	300	320	325	320	330	300	320
Potosi	1,400	2,800	500	—	—	—	—	1,100	1,200	—	1,200	—	1,200	—	1,125
Hale & Norcross	400	800	500	550	625	500	—	500	700	—	700	520	600	—	—
Sierra Nevada	3,000	3,000	500	60	70	60	70	60	70	—	75	—	—	—	75
Caney	2,000	800	60	100	115	90	98	100	107½	105	110	100	110	101	105
Burning Moscow	4,100	4,100	500	95½	97	98	100	98¾	103	100	105	86	97½	93	96
North Potosi	2,000	2,000	250	30	31	26	—	29½	33	30	35	32	40	41	42
Charles Caney	1,800	1,800	30	—	—	—	11	—	10	—	—	—	—	—	—
Iowa	1,200	1,200	1,000	—	—	—	—	—	100	—	—	—	—	—	—
El Dorado	1,000	1,000	500	—	—	—	—	—	34	—	35	—	—	—	—
Norton	1,600	1,600	50	—	—	—	—	3	5	2	—	2	3	2	6
Burnside	2,800	2,800	500	9	13	8	14	9	—	9	11	10	12	—	12
Adriatic	2,700	2,700	100	—	10	—	10	9	11	—	10	8¾	10½	—	11
Pride of the West	1,400	1,400	100	—	—	86	86	95	97½	92	95	93	95	90	95
Imperial	184	4,000	500	—	148	162½	162½	170	175	167½	177½	170	175	165	175
Crown Point	600	1,200	100	—	—	900	—	—	900	—	900	700	900	—	900
Manhattan	—	—	—	—	—	—	—	—	7	—	7	—	—	—	—
Seneca	—	—	—	7	11	8	10	9	10	—	—	10	—	10	—
Mt. Davidson tun'l	1,000	1,000	200	—	—	1½	3	—	—	—	—	2	—	2	3
Caledonia Tunnel	—	—	—	21	25	23	24	24	26	24	26	24	25	60	60
Bajazet & G. Era	4,000	4,000	300	50	62½	50	55	—	—	45	—	47½	55	—	—
Cedar Hill tunnel	—	1,000	100	—	—	—	—	—	—	—	—	—	—	—	—
Gold Hill Qu'tz Mill	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
EMERALDA.															
Wide West	1,400	1,400	2,600	12¼	20	14	19	15	16	14	19	28	30	20	22½
Antelope	1,200	1,200	500	—	300	—	250	—	300	—	—	—	—	—	250
Esmeralda	1,600	1,600	1,000	—	—	—	—	1½	—	—	—	6	—	10	—
Real del Monte	4,400	4,400	400	36	37	37	38	69	70	—	118	91	95	77	77
Utah	1,600	1,600	250	17	19	—	—	—	18	—	—	8	24	8	22
Silver Hill	3,000	3,000	500	—	10	—	—	—	—	—	—	5	10	—	10
Nevada	600	1,200	250	—	—	—	—	—	—	—	—	—	—	—	—
Falls of Clyde	6,000	6,000	100	—	—	—	2	—	—	—	—	—	—	—	—
Bamboo	600	600	500	—	18	—	—	—	—	—	—	—	—	—	35
Crockett	—	—	—	2½	5	—	—	—	—	—	—	9	10	8	12
Federal Hope	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Jenny Lind	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
COSO.															
Josephine	9,600	4,800	2,500	1	—	1¼	—	1¼	—	1	—	2	—	2	—
Willow Springs	2,700	2,700	100	—	—	—	—	—	—	—	—	—	—	—	—
Coso	2,600	3,600	600	—	—	—	—	—	3	—	—	—	2½	—	—
COPPER.															
Napoleon	2,700	2,700	600	62	85	—	80	—	80	—	—	—	85	—	85
Josephine	—	—	—	—	7	—	—	—	6	—	8	—	9	4	5
CALIFORNIA.															
Laurel Hill	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rhodes Diggings	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—
Feltowes	2,500	2,500	100	—	—	—	—	—	—	—	—	—	—	—	—
Maxwell	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rock River	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Eureka	—	—	—	—	—	—	—	—	40	—	—	—	40	—	40
HUMBOLDT STOCKS.															
De Soto	1,980	1,980	100	30	40	—	—	35	40	—	—	35	45	30	50
Great Basin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

10 do Crockett, at $8 50.
10 do Real del Monte, at $90.
10 do Real del Monte, at 93 50.
10 do Real del Monte, at $95.
35 do Lady Bryan, at $41.
10 do Lady Bryan, at 50, b 30.
10 do Lady Bryan, at 49 50, b 30.
10 do Lady Bryan, at 47 50.
20 do Lady Bryan, at 51 b 30.
10 do Lady Bryan, at 48
10 do Lady Bryan, at 49.
10 do Lady Bryan, at 51 50, b 30.
10 do Blue Ledge at $21½.
20 do Blue Ledge at 20.
10 do Blue Ledge at 21.
30 do Blue Ledge at 22, b 30.
20 do Blue Ledge at 22¼, b 30.
5 do Harmon at $30, s 10.
5 do Willach, Y. B. at $225.
25 do Buckeye at $16.
5 do Knickerbocker, C. H., at $40.
5 do Real del Monte at 77.
10 do Harmon at $31½.
50 do Sacramento East, S. R., at $3¼.

STOCK EXCHANGE.

10 do Lady Bryan at 47¼.
50 do Crockett at $9.
15 do Crockett at 9¼.
35 do Crockett at 12, b 30.
22 do Crockett at 9¾
80 do Crockett at 10.
20 do Crockett at 11¼, b 30.
10 do Harmon at $30.
24 do Coso, at $3.
10 do Wide West at 27.
10 do Wide West at 25.
10 do Lady Bryan at 47¼.
5 do Michigan, C. H, at 35.

S. F. Stock and Exchange Bd. sales....$306,024 00
Sales by the Pacific Board of Brokers. 19,075 00
Sales by the Stock Exchange 4,9.1 04

Total sales of the day, by all Boards,. 330,010 00

Total sales of the week, by all Boards $1,311,932 00

Gold in New York.

Saturday April 2.....167.
Monday April 5 .....166.
Tuesday April 6.....169.

Legal Tender Notes.

San Francisco, Friday April 8th....61 per cent.

JUST PUBLISHED!

THE MINING DIRECTORY,

Containing the names of Secretaries and of Mining Companies having their place of business in San Francisco, and the location of their offices.

☞ PRICE.....50 CENTS. ☜

Postage prepaid, when ordered by mail, without additional cost.
DEWEY & CO., Publishers,
Government House, San Francisco.

Geo. F. M. Glover,

PREMIUM ORNAMENTAL AND FANCY PAPER CUTTER AND DECORATOR.

HALLS, DINING ROOMS, SALOONS, PRIVATE PARLORS, Steamboats, &c., Decorated in the latest and neatest style. Mirrors, Picture Frames, Chandeliers, &c., decorated with Tarlton or Paper. Particular attention paid to the decoration of Private Parlors. Address Box, 1,770, San Francisco Post Office. Can be found at W. S. Lyons & Co.'s, 304 Montgomery St., cor. of Pine. 15

BUSINESS DIRECTORY OF SAN FRANCISCO.—Messrs. Stillwell & Co. are said to be meeting with excellent success with their important undertaking, and the public will soon be furnished with a conveniently arranged book, containing the advertising cards of our leading firms, with a historical sketch of each upon the opposite pages.

SECRETARIES' MEMORANDA.

For Advertising Mining Notices in the Mining and Scientific Press.

Assessments levied by order of the Board of Trustees of Mining Companies will be duly advertised, in strict accordance with the new law, in the MINING AND SCIENTIFIC PRESS by observing the following rules, which we publish for the purpose of assisting Secretaries in expediting their business, and avoiding the possibility of errors in regard to dates:

When the order for an assessment is made on MONDAY, TUESDAY, WEDNESDAY, THURSDAY or SATURDAY of *any week*—

THE NOTICE OF ASSESSMENT may appear on the FIRST Saturday subsequent to the order.

THE DAY FOR THE NOTICE OF SALE to appear may be fixed on the FIFTH Saturday subsequent to the order.

THE DAY OF SALE may be fixed on the SEVENTH Saturday, or any day (except Sunday) from that date to the eighth Friday, subsequent to the order.

Owing to the arbitrary provisions of the new law (the original bill of which deprived the mining public of the benefit of their choice of advertising in weekly journals), no assessment can be made upon any Friday, and the publication for the collection of the same be made weekly in the Saturday issue of any daily or weekly newspaper.

REVISED COPIES of advertisements will be printed gratuitously for Secretaries who desire advertising near the mines.

A GRATUITOUS EDITION will be published, containing all mining notices (after each issue of the same in our regular weekly edition), copies of which will be furnished free to each member of the various stock boards of the city, and Secretaries will be entitled to as many copies as they see fit to personally address to their stockholders.

ADVERTISEMENTS should be handed into the office as early in the week as possible.

TERMS for advertising mining notices, $2.50 per square. Our columns are considerably wider than those of the daily papers, and consequently more words are contained in a square of our matter.

DEWEY & CO., Publishers,
15-tf 56 and 57 Government House, San Francisco.

IMPROVED WATER-WHEEL,

—PATENTED BY—

John Tyler, West Lebanon, N. H.

GIVING THE MAXIMUM POWER WITH THE MINIMUN COST—HAVING THE FOLLOWING AS SOME OF ITS ADVANTAGES OVER OTHERS—GIVING THE BEST PER CENTAGE OF WATER USED, DURABILITY.

It runs Equally as well IN Back Water as OUT.

IT IS ADAPTED TO HIGH HEADS OR LOW—IT IS NOT LIABLE to get out of repair—It can be put to running by any Machinist in a very short time—It is the steadiest running and easiest regulated wheel in use—There are now some 500 of them in use in the United States and Canadas, running under all heads, from 4 to 80 feet, and giving universal satisfaction. Address

SMITH & HANSCOM,
15v8-3m Golden State Iron Works, San Francisco.

Pacific Mail Steamship Company.

THE FOLLOWING STEAMSHIPS WILL BE DESPATCHED FROM SAN FRANCISCO IN THE MONTH OF APRIL, 1864.

April, 13—COLDEN CITY.....R. H. Pearson, Commander.
April, 23—ST. LOUIS,.....Wm. H. Hudson, Commander.
From Folsom street Wharf, at nine o'clock A. M., punctually,

FOR PANAMA.

Passengers will be conveyed from Panama to Asphwall by the Panama Railroad Company, and from Asphwall to New York by the Atlantic and Pacific Steamship Company.

A. B. FORBES, Agent P. M. S. Co.,

"CHIPPINGS."

The State of Connecticut has appropriated towards the support of the war, $8,600,500. Add to this her proportion of the public debt and the sum will reach $80,000,000, or one-third of all the taxable property of the State. Nor do these appropriations include the vast appropriations and expenditures by towns and cities of that State.

Holladay has secured the contract for a tri-weekly mail from Salt Lake City to Virginia City, Idaho. It is expected that the coaches will commence running by the first of May. The importance of this enterprise to the new Territory of Idaho can scarcely be estimated in dollars. It will open up an immense wilderness to the energy of the superior white race, and rapidly fill it with a populous community.

The Cabinet of the King of the Sandwich Islands contains an American, an Englishman, a Scotchman, a Frenchman, a Kanaka, and a woman. This is what might be called a mixed Cabinet.

There will be a draft in the several States on the 15th of April, unless the quota from the respective States are filled up by volunteering. Since the appointment of Gen. Grant as Lieutenant-General, the President is determined to give him all he asks, believing it necessary and having confidence in the termination of the war.

The farmers in Mariposa county are complaining of the great number of grasshoppers, and are afraid they will do great damage to the crops.

The county seat of Mono county has been removed to Bridgeport, the archives having been taken there from Aurora last week.

The Marin County Journal learns that an extensive Powder Mill is to be erected immediately on Daniel's Creek, in that County.

The mountain papers state that all the ditches are full of water and that for all practical purposes they have had rain enough for the present.

One of the Pioneer stage coaches lately made the trip from Virginia City to Placerville in 11¼ hours.

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. The Mining and Scientific Press Patent Agency has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

IMPORTANT!

The Best is Always the Cheapest!

THE PHŒNIX

INSURANCE COMPANY,

OF HARTFORD, CONN.,

And the $75,000 Deposit Act.

THE BILL REQUIRING ALL FOREIGN INSURANCE COMPANIES to make a special Deposit of $75,000 in Stocks of the United States, of this State, or stocks or bonds of the city, or city and county of San Francisco, with their banker or bankers in this city, on the FIRST DAY OF MAY, 1864, having become a law, it may be of interest to the insuring public to know that the PHŒNIX INSURANCE COMPANY, of Hartford, is ready to comply with its requirements at once. The Company has over $50,000 in city and county of San Francisco bonds, already on deposit with Messrs. Banks & Co. R. H. MAGILL, General Agent.

City Office—In the "James King of Wm." building, southwest corner of Montgomery and Commercial streets, San Francisco.
I. FRANK, City Solicitor. (14v8-tf) L. B. DELL, City Agent.

PHŒNIX WORKS.

Nos. 6 & 8 Battery street, near Bush, San Francisco.

JOHNATHAN KITTREDGE, MANUFACTURER

—OF—

FIRE-PROOF DOORS, SHUTTERS, GRATINGS AND BANK VAULTS.—ALSO, BLACKSMITH'S WORK. 14-m

BLASTING POWDER!

Prime Blasting Powder, on Consignment

And for sale in lots to suit purchasers, by

J. S. CURTIS,
6v8-tf No. 405 Front street, San Francisco.

FREDERICK MANSELL,

Mechanical & Architectural Draughtsman,

No. 422 California street, corner of Leidsdorff.

Drawings of Models made for parties applying for patents at Washington or London. mar23-tf,

Miscellaneous Advertisements.

D. B. HINCKLEY, WM. E. WORTH. WM. A. FIELD

Fulton Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First Street, between Market and Mission stree
3-qy SAN FRANCISCO.

J. H. GRUSH, J. A. PEER, W. BUSHMAN

GRUSH & CO.,

Pattern and Model Makers.

Drawings Made for Engines, Mills, Water Wheels, Mining Machinery, Etc.

—ALSO—

WOOD WORK FOR ALL KINDS OF MACHINERY.

☞ Scroll Sawing Done to Order.

Fremont St., between Market and Mission, San Francisco. 3-3m

GEORGE T. PRACY,

MACHINIST AND BLACKSMITH.

Steam Engine, Flour and Saw Mill,

And Quartz Machinery, Printing Presses,

—AND—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED

Nos. 109 and 111 Fremont street, near corner of Mission,
OPPOSITE MECHANICS' MILL,
3-qy SAN FRANCISCO.

JOHN P. GALLAGHER..... .....JOSEPH H. WEED.

GALLAGHER & WEED,

BRASS AND BELL FOUNDRY

And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING, DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, MADE to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks, also brass Padlocks and Shop Locks of various patterns, on hand and made to order.

☞ Particular attention given to casting Rudder Braces and Ship Work in general.

☞ All Jobs promptly attended to.—Prices moderate. ☜
No. 125 First Street, opposite Minna, next door to Pacific Foundry.
[Removed from Oregon street, between Front and Davis.]
j21tf

LEWIS COFFEY. J. S. RISDON.

LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

THE ONLY EXCLUSIVELY BOILER MAKING ESTABLISHment on the Pacific Coast, owned and conducted by Practical Boiler Makers. All orders for New Work, the repairing of Old Work, executed as ordered, and warranted as to quality.

Old Stand, corner Bush and Market Streets. Opposite Oriental Hotel, San Francisco, Cal.

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,

BOILER MAKERS AND SHEET IRON WORKERS,

N. B. All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission, between Beal and Fremont Sts., San Francisco.
fy29-tf

LEANDER RANSOM,

Civil Engineer and Surveyor,

HAVING BEEN CONNECTED WITH THE PUBLIC WORKS OF the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. Also

State Locating Agent,

AND AS SUCH HAVING THE SALE OF

600,000 Acres of State School Lands.

At the low price of $1,25 per Acre.

Terms—Twenty per cent in cash and the balance on a credit of several years.
oc7-tf Office, 328 Montgomery streets.

W. W. HANSCOM,

Steam and Mechanical Engineer. Designs furnished, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc., etc. Agent for McKenzie's Patent Cupola and Blower.

At the Golden State Iron Works,

First Street, San Francisco.
tf.

Boston Mastic Roofing.

WE ARE PREPARED TO FILL ALL ORDERS FOR ROOFING throughout the State, Mexico or Nevada Territory. The attention of miners and mill owners are especially called to this notice, it being the cheapest and most economical roofing in use.

Office 135 Montgomery Street, near Bush, San Francisco.
10v8-2m N. P. PERIN & CO.

WANTED,

Gold Quartz suitable for Cutting Jewelry.

By FRONTIER & DEVIERCY.

437 Pine Street, San Francisco.
au3tf.

MINERS' FOUNDRY

—AND—

MACHINE WORKS,

First street, between Howard and Folsom streets,

SAN FRANCISCO.

EVERY DESCRIPTION OF IRON AND BRASS MACHINERY, the Best and Most Economical, manufactured in the State of California, will be furnished with dispatch at the Miners' Foundry and Machine Works, as:

Steam Engines and Boilers, Flour, Saw and Quartz mill machinery; Mining Pumps, Amalgamators, Retorts, Etc., Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections, designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities will be afforded ample facilities, free of cost.

All parties desiring accurate and highly finished drawings and Superior Machinery, at most reasonable rates are cordially invited to call before contracting elsewhere.
tf. HOWLAND, ANGEL & KING.

Vulcan Iron Works Company.

P. Torquet.....Manager.

Steam Engine Builders and Boiler Makers,

Iron Founders and General Engineers,

PUMPING, HOISTING, MINING AND QUARTZ-CRUSHING Machinery. Shoes and Dies of the hardest iron. Russia Iron Punched Screens. Steamboat Machinery, Saw, Flour and Sugar Mills. High and Low Pressure Boilers of all styles. Jonval and other Turbine Water Wheels with latest improvements.
tf No. 187 & 139 First Street San Francisco.

Sacramento Iron Works.

I STREET, BETWEEN FIRST AND SECOND STREETS, SACRAMENTO.

GOSS & LOMBARD.....Proprietors.

MANUFACTURERS OF STEAM ENGINES, MACHINERY FOR Saw, Flour and Quartz Mills, Horse Powers, Windmills, Car Wheels, Suction and Force Pumps, Cast Iron Rifles and all kinds of House Castings, at reduced prices. Gas pipe of all sizes, and all kinds of Brass and Iron Steam Fittings, with Hemp and Rubber Packing, constantly on hand. Wrought Iron Work and all kinds of Brass Castings done to order.

We are the Sole Agents in this State for the celebrated Worthington Pump, an assortment of which we keep constantly on hand. We have just received from the East a fine assortment of Cast Iron Fence Patterns, suitable for yards, balconies, cemetery lots or graves. We shall continue to do our work in the best manner and at the LOWEST CASH PRICES, hoping thereby to receive a just share of public patronage. 1-3m

A. S. HALLIDIE & CO.,

WIRE ROPE MANUFACTURERS.

Established 1857.

Office, No. 412 Clay street—Works, North Beach,

SAN FRANCISCO.

After seven years' use throughout the State of California and the Pacific Coast generally, we can confidently recommend Wire Rope for

HOISTING FROM DEEP MINES,
GUY ROPES FOR DERRICKS, &c.,
STANDING RIGGING FOR SHIPS,
FERRY ROPES FOR FERRIES,
SASH CORD FOR WINDOW SASHES,
ETC., ETC., ETC., ETC., ETC., ETC.

It being Cheaper, Stronger, Lighter and More Durable than any other kind of Rope, and not streching or shrinking by atmospheric changes.

MINING COMPANIES, by using it for Hoisting Purposes, save 66 per cent. on their outlay for other ropes.

Wire Fencing Strand,

For fencing large parcels of land—permanently, economically and expeditiously. Manufactured in any length desired.

Pamphlets containing weight, strength and price, forwarded free application to the Manufacturers.

WIRE SUSPENSION BRIDGES AND AQUEDUCTS

We are prepared to erect, of any span and capacity, and take pleasure in referring those interested to the many structures of this kind built by us in California, Oregon and British Columbia, of span from 200 to 400 feet. 3-3m

WHEELER'S

Amalgamating and Separating Pans

IT IS ACKNOWLEDGED BY ALL WHO HAVE EXAMINED THE principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.

The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metal arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the triturating, this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.

Where these Pans have been introduced and operated by the side of others on sands from the same vat, the Wheeler Pans have uniformly gained a large percentage of metals, over its competitors, as well as a still larger percentage in the amount of work performed.

*** These Pans may be seen in daily operation at the Miners, Foundry, on First street, San Francisco, where all interested are invited to call and examine for themselves.
no16-tf ZENAS WHEELER.

To Quartz Miners.

ALL PERSONS INTERESTED IN MINING MACHINERY ARE invited to call at Donahue's Foundry and examine my improved Amalgamator. It is unquestionably superior to anything now known for amalgamating Silver and Gold. It works 1000 pounds at a time, and will amalgamate over three tons a day. By the motion of the revolving muller, the pulp is drawn through its centre and passes under it, between the grinding surfaces, to the circumference; from whence it passes again over the muller to the centre, through the holes and between the grinding surface to the circumference as before. Thus a constant circulation of the pulp is kept up, bringing the particles of ore again and again under the muller, and reducing the whole mass to an impalpable powder.

No quicksilver lies between the surfaces to be ground, but at the circumference and centre of the pan where the metal must pass through it as the pulp circulates.

A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S. Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.
sep21

It is Impossible for editors to know ALL the merits and demerits of their correspondence, consequently the reader must not receive the opinions of our contributors as our own. Intelligent discussion is invited upon all sides, and the evidence of any error upon our part will be received in friendship, and treated with respect.

Worth Considering.—Advertising has proved the medium of success to many of the most prominent business men of the world. Merchants, Inventors, Builders, Patentees, Manufacturers, Foundrymen, Machinists, and, in fact, all who wish to call the particular attention of the Mining, Professional, Mechanical and Industrial members of the community to their business, should not fail to advertise in the MINING AND SCIENTIFIC PRESS. The circulation of the paper is extensive, and has a wide range, reaching the most intelligent readers in every mining settlement of importance on the coast. A large number of copies are also sent East. Our terms are reasonable. "Live and help live" we believe to be a sensible motto.

How to make your Remittances.—In most of the mining towns, brokers will furnish checks on San Francisco at par, (or at a very slight advance) to those who wish to pay us for subscriptions, advertising, mining blanks, etc. When it is more convenient, money may be remitted by mail at our risk if the parties sending will register their letters. Money sent by mail is seldom lost if properly enclosed. An excellent method is that of opening the layers of a card, placing the coins between the layers and sealing the edges to gether.

To Druggists and all Prescribing for Neuralgic and Nervous Cases.—Your attention is called particularly to the efficacy of WATTS' NERVOUS ANTIDOTE for the above. Feelings of humanity, independent of pecuniary considerations, would prompt you to recommend it in all cases of Neuralgic Pains, Face Ache, from defective teeth, and the General Wasting Away and Debility of the Nervous System, if you could have the assurance that this was what it is purported to be—THE GREAT RELIABLE TRANQUILIZER AND RESTORER OF THE SYSTEM. It has been repeatedly prescribed in cases of excessive drinking, on the verge of Delirium Tremens, and even while laboring under its distressing influence, with astonishing results. It contains no preparation of opium or Valerian, and is never accompanied with the unpleasant sensation always experienced after taking successive doses of them. It is also the best soothing Syrup in use. Patients have taken Watts' Nervous Antidote many months in succession, and experienced no unpleasant effect whatever—while the same continued use of many other popular remedies has completely shattered the system.

For sale, Wholesale and Retail, by SAMUEL ADAMS, U. S. Drug Store, corner of Pine and Kearny Streets, San Francisco. 6v8-2m

Brown's Bronchial Troches.

"I have never changed my mind respecting them from the first, excepting to think yet better of that which I began to think well of." REV. HENRY WARD BEECHER.

"The Troches are a staff of life to me." PROF. EDWARD NORTH, Pres. Hamilton College, Clinton, N. Y.

"For Throat Troubles they are specific." N. P. WILLIS.

"Too Well known to need commendation." HON. CHAS. A. PHELPS, Pres. Mass. Senate.

"Contain no Opium nor anything injurious." DR. A. A. HAYES, Chemist, Boston.

"An elegant combination for Coughs." DR. G. F. BIGELOW, Boston.

"I recommend their use to Public Speakers." REV. E. CHAPIN.

"Most salutary relief in Bronchitis." REV. S. SEIGFRIED, Morristown, Ohio.

"Very beneficial when suffering from colds." REV. S. J. P. ANDERSON, St. Louis.

"Almost instant relief in the distressing labor of breathing peculiar to Asthma. REV. A. C. EGGLESTON, New York.

"They have suited my case exactly, relieving my throat so that I could sing with ease." T. DUCHARME Chorister French Parish Church, Montreal.

As there are imitations be sure to obtain the genuine.

Agents for California, REDINGTON & Co., San Francisco. 14-1m

PRATER'S
PATENT CONCENTRATOR.

THE PROPRIETORS OF THIS NEW CONCENTRATOR, HAVING completed arrangements for its manufacture at the Fulton Foundry, in this city, now offers it to the public, with the fullest confidence that for the purpose for which it is designed

It Has No Equal in Use.

The principle of this machine, which is designed for a Concentrator exclusively, is entirely new. It is designed for separating finely divided quicksilver, amalgam and gold from the sands, and for concentrating and saving the sulphurets, and is to be placed behind all or any other machine in use. It is now in operation at

WHALER & THAYER'S REDUCTION WORKS,

NORTH BEACH, SAN FRANCISCO,

To whom the Proprietors are permitted to refer, and where all interested in mining are respectfully invited to call and examine the best Concentrator in use.

This machine is now running on waste sands, from which it is taking out an average of 3½ pounds of quicksilver for each ton of sand. Orders or letters of enquiry may be addressed to HUNDERFORD & PRATER, Proprietors.

San Francisco, April 1st, 1864. 14v8-tf

PACIFIC IRON WORKS,

First street, between Mission and Howard streets,

SAN FRANCISCO.

GODDARD & COMPANY,

—MANUFACTURERS OF—

STEAM ENGINES & BOILERS,

QUARTZ, FLOUR, SAW AND SUGAR MILLS,

AMALGAMATING PANS AND BARRELS, MINING PUMPS

AND HOISTING GEAR, WATER WHEELS,

And Machinery of Every Description.

Also furnish all kinds of Iron and Brass Casting. Only Manufacturers of the celebrated Bryan Battery. 14-tf

Mining Laws and Forms

JUST PUBLISHED, BY H. H. BANCROFT & CO., BEING A compilation of the Statutes of this State relating to Mining Corporations, Assessments, etc., with a digest of decisions of the Supreme Court and Forms of the Incorporation of Companies. Compiled by H. B. Congdon. 12mo., flexible cloth. $1,50. For sale at all the Bookstores. sep14-tf

IMPORTANT TO MINERS.

MAGNIFYING GLASSES FOR EXAMINING QUARTZ.

MINING COMPASSES, WITH SIGHTS AND LEVELS.

BLOW-PIPES, GOLD SCALES.

POCKET COMPASSES, MAGNETS,

DRAWING INSTRUMENTS, in cases and separate pieces.

MARINE AND FIELD GLASSES.

EYE PROTECTORS. GALVANIC BATTERIES.

THERMOMETERS. BAROMETERS.

The Largest Assortment on the Pacific Coast for sale by

LAWRENCE & HOUSEWORTH, Opticians,
5v8-1f No. 637 Clay street, San Francisco.

HORTON'S TRANSFER JOURNAL.

—AN ARTICLE—

CHEAP AND CONVENIENT

For Mining Secretaries. For sale at this Office.

Orders from the Interior, accompanied with the Cash, will be promptly attended to. Price, $7; Postage paid, the price amounts to $7 50. 6v8-tf

J. P. LeCount & Co.,

..FURNISH..

CERTIFICATES OF STOCK,

Equal to Lithograph, for $25.

Stock Ledgers, Transfer Books,

And all Stationery Required by Mining Companies,

AT LOW PRICES.

4v8-tf No. 433 Sansome street, San Francisco.

HAWLEY & CO.,

—IMPORTERS AND DEALERS IN—

Hardware, Building Materials,

CARPENTERS' TOOLS, AGRICULTURAL AND MINING IMPLEMENTS, ETC., ETC.

3-m Cor. of California and Battery Streets, San Francisco.

DESKS AND OFFICE FURNITURE OF ALL KINDS, FOR SALE BY

JOHN WIGMORE,

No. 423 California St., San Francisco

OFFICE JOBBING, of all kinds, promptly attended to.
j2-tf

E. C. DAKE,

Dealer in Clothing and Gent's Furnishing Goods,

541 and 543 Washington Street, Montgomery Block,
j2.tf San Francisco.

Agency for the Purchase and Sale

—OF—

MEXICAN MINING STOCKS,

At No. 411 Clay Street, San Francisco.

OFFICE OF THE PENA AND LA MARRONENA SILVER MINing Companies, San Antonio District, Lower California.

All persons are invited to call and examine Ores from the above mines.

jlt WM. FAULKNER.

A New and Valuable Book.

PROCESS OF SILVER AND GOLD EXTRACTION, BY GUIDO Kustel, Mining Engineer and Metallurgist, former manager of the Ophir Works, &c.; 350 pages octavo illustrated.

This admirable work has met with the highest commendations from the Press and Scientific men, as a clear and able exposition of the science as practised in California and Nevada Territory. It is written for the people in good plain English and finely illustrated.

Price—post paid—Cloth $6; Sheep $7.

A. ROMAN & CO.,
Booksellers, Importers and Publishers,
417 and 419 Montgomery street,
no30-tf San Francisco.

Patronize Home Manufacturers!!!

JAMES LONGSHORE,

TRUNK AND VALISE MANUFACTURER, 597 SANSOME ST., under Tehama House. Trunks and Valises, Wholesale and Retail. Fine Sole Leather Trunks, Valises, and a fine assortment of LADIES' TRUNKS constantly on hand. Trunks covered and repaired.
au10

HEPBURN & PETERSON'S.

AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION OF THE Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos. 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

nov8 3m* HEPBURN & PETERSON.

Removal.

OFFICE OF THE PACIFIC METALLURGICAL OFFICE IS REmoved to 509 Sacramento street. Having enlarged our works at North Beach, we are now enabled to reduce from 10 to 15 tons of Silver or Gold rock per day.

Gold and Silver ore, and Sulphuret Assayers', or Silversmiths' sweepings reduced or purchased.

COPPER ORES—Highest market rates advanced in cash, for Shipments. S. C. BRADSHAW, Agent,

509 Sacramento street, near Sansome.

REYNOLD'S

Patent Cut-Off and Governor,

For Steam Engines.

127 of these Invaluable Machines

ARE NOW IN USE

In California and Nevada Territory, giving a perfectly regular motion and

Saving 20 to 75 per cent of the Fuel.

Steen's Improved Governor

IS THE CHEAPEST, SIMPLEST AND QUICKEST TO ACT AND least liable to get out of order of any Governor in use. It can be seen in operation at the Golden State Iron Works, at the Stone Breaker, foot of Montgomery Street and at the Sugar Refinery, 8th Street, San Francisco.

Steam Engines, Boilers, Pipes,

Hydraulic Presses, Shafting, Pulleys, Etc., Etc., bought and sold the best market rates.

Anti-Incrustation Powder,

A sure remedy for Scale in Steam Boilers, without injury to the Iron. In use for the past EIGHT years.

☞ MACHINERY MADE AND REPAIRED. ☜

—REFER TO—

Sugar Refinery, San Francisco,
Cottell & Co., San Jose,
L. A. Booth, Esq., Virginia City,
And 2,000 others in the United States.

E. T. STEEN.

1-tf Nos. 37 & 39 Fremont Street and 42 & 44 Beal Street.

SQUARZA'S PUNCH.

FIRST PREMIUM

AT THE SACRAMENTO AGRICULTURAL STATE FAIR FOR THE YEAR 1862.

ALSO; FIRST PREMIUM

At the San Francisco Bay District Agricultural Fair, 1862.

MANUFACTORY, WHOLESALE AND RETAIL,

No. 44 Leidsdorff street, opposite the What Cheer House,
j2-tf San Francisco.

THEODORE KALLENBERG,

Maker of Models for Inventors.

MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.

No. 418 Market street, San Francisco. n7-tf

Ore Bags.

10 000 HAND SEWED GOLD AND SILVER ORE BAGS, 100 lbs each. 15,000 Chicken Gunny Pocket Bags, suitable for Copper Ore, 125 lbs each. For sale in lots, by

REYNOLDS, HOWARD & FORD,
IIv8-m 313 and 315 Davis Street, San Francisco.

Owen's River Canal Company.

CAPITAL STOCK.....$1,000,000.

10,000 Shares.....$100 per Share.

A PORTION OF THIS STOCK IS NOW OFFERED TO THE PUBlic, and recommended as an investment.

Full Paid and Unassessable Stock,

Also Assessable Stock, can be obtained of A. J. DOWNER & CO., the authorized Agents of the Company,

406 Montgomery Street.

President.....R. S. WHIGHAM.
Secretary.....W. FISK HITCHCOCK.
Treasurer.....MONTGOMERY GODLEY.
Superintendent.....WILLIAM FLEMING.
Engineer.....J. E. CLAYTON.

TRUSTEES:

R. S. WHIGHAM, formerly of Whigham's Mill,.....Nevada City.
WILLIAM FLEMING.....of San Francisco.
SPIER RIDDEL.....Paying Teller of Parrott & Co's.
ISAAC SWAIN.....of A. J. Downer & Co.
WILLIAM P. PRATT.....of Nash & Fogg.

Office of the Company 328 Montgomery Street. jlt

JOHN SCOTT,

METALLURGIC CHEMIST,

—AND—

ASSAYER OF ORES, MINERALS AND METALS,

No. 507 Jackson Street, above Montgomery, San Francisco.

WORKING ASSAYS MADE ON LARGE OR SMALL QUANTities of Ore by the most approved methods, and instructions regarding the reduction of them, in general, given. Assaying of Ores, etc., taught, either by the wet or dry method. Silver Ores reduced by means of Electricity.

☞ Terms moderate, and all results guaranteed. IIv8-m

GEO. A. METCALF. D. S. HUTCHINSON

METCALF & HUTCHINSON'S

PHOTOGRAPHIC GALLERY,

650 Washington St. Three doors below Kearney, San Francisco.

HAVING REFITTED THE ABOVE ROOMS THE FIRM ARE now prepared to furnish the public with a superior style of Picture, at a lower price than ever before offered in the city.

CARD PICTURES.

As we have every facility for producing these beautiful pictures in all their different varieties, we have reduced the price to

THREE DOLLARS PER DOZEN!

Large sized Photographs $3—Extra copies $1 each.

AMBROTYPES in all Styles and Prices.

OLD PICTURES copied with care and accuracy, in any style desired. Particular attention paid to pictures of children.

Pictures painted in Oil or Water Colors, and retouched in Indian Ink by a competent artist. aug

Mining Notices.

Burgess Silver Mining, Company Reese River District, Nevada Territory.

Belle Creole Silver Mining Company, Reese River District, Nevada Territory.

Olive Branch Silver Mining Company, Reese River District, Nevada Territory.

Swift Silver Mining Company, Reese River District, Nevada Territory.

Paul Silver Mining Company, Reese River District, Nevada Territory.

Notice is hereby given, that in accordance with the laws of the State of California, and in pursuance of orders made by the respective Boards of Trustees of the above named Companies, at meetings held on the 1st day of April, A. D. 1864, a sufficent number of shares of the capital stock of each of the above named Companies standing in the names of the following persons will be sold a Public Auction, to the highest bidder, at the office of those Companies, No. 224 Montgomery street, San Francisco, on the fifth day of May, A. D. 1864, at 11 o'clock A. M., as will pay Assessment No. 1, of each of them, of twenty-five cents, all levied on the 23d of November, A. D. 1863, and Assessment No. 2, of each of them, of one dollar, all levied on the 26th day of February, A. D. 1864, due and delinquent thereon, together with all costs accruing from advertising, sale etc, if not previously paid:

BURGESS COMPANY.

Name.	No. Certs.	No. Shares.	Asst. No. 1.	Asst. No. 2.	Total
Sarah A. Bull	4	25		$25 00	$25 00
S. H. Pierce	5	10	2 50	10 00	12 50
George Swift	2 and 3	15	3 75	15 00	18 75
H. Burgess	12	173	43 25	173 00	216 25
F. B. Dole	22	187		187 00	187 00
Eug. Cazalis	20 and 21	75		75 00	75 00
Belinda Fowler	1	10	2 50	10 00	12 50
J. F. Michel	7	10	2 50	10 00	12 50

SWIFT COMPANY.

George Swift	3, 4 and 33	No. 1—81 / No. 2—31	20 25	31 00	51 25
James Flton	32	86	21 50	86 00	107 50
H. Burgess	31	86	21 50	86 00	107 50
C. D. Caven	7	23	5 75	23 00	28 75
Robert E. Lowery	22, 23, 24, 25	No. 1—6 / No. 2—86	1 50	86 00	87 50
John Croyland	26, 27, 28, 29	43	10 75	43 00	53 75
Belinda Fowler	1	10		10 00	10 00
O. H. Kellogg	6	10		10 00	10 00
J. F. Michel	8	10		10 00	10 00
Chas. McConnell	2	10		10 00	10 00
W. W. Tinker	5	10		10 00	10 00
E. Ernest	9, 10, 11, 12, 13 / 14, 15, 16, 17, 18	86		86 00	86 00
D. Deeth	30	5		5 00	5 00

BELLE CREOLE COMPANY.

R. E. Lowery	13, 14, 15, 16, 17 / 18, 19, 20, 21	161		161 25	161 25
Chas. D Caven	8	84	21 00	84 00	105 00
John Croyland	22, 23, 24, 25	175	43 75	175 00	218 75
S. A. Murdock	28	175	43 75	175 00	218 75
T. O. Jackson	29	88	22 00	88 00	110 00
Geo. Swift	3, 4 and 27	No. 1—82 / No. 2—47	20 50	47 00	67 50
Sarah A. Bull	5	25		25 00	25 00
Octavia W. Pray	1	5		6 00	5 00
J. N. Traverse	2	10		10 00	10 00
C. W. Kellogg	6	10		10 00	10 00
J. F. Michel	9	10		10 00	10 00
D. Deeth	26	5		5 00	5 00

OLIVE BRANCH COMPANY.

Chas. D. Caven	9	83	20 75	83 00	103 75
Robert E. Lowery	14, 15, 16, 17	No. 1—65 / No. 2—85	16 25	85 00	101 25
J. P. Tiernan	20	85	21 25	85 00	106 25
S. A. Murdock	21	85	21 25	85 00	106 25
George Swift	4, 5 and 19	No. 1—80 / No. 2—30	20 00	30 00	50 00
C. E. Blake	1	10		10 00	10 00
Chas. McConnell	2	10		10 00	10 00
W. W. Tinker	3	10		10 00	10 00
Chas. McHenry	7	10		10 00	10 00
Sarah A. Bull	6	25		25 00	25 00
J. F. Michel	10	10		10 00	10 00
D. Deeth	18	5		5 00	5 00

PAUL COMPANY.

John Croyland	12, 13, 14, 15	174	43 50	174 00	217 50
S. A. Murdock	17	22	5 50	22 00	27 50
C. D. Caven	7	68	17 00	68 00	85 00
George Swift	2, 3, 18	No. 1—164 / No. 2—139	42 25	139 00	181 25
H. Burgess	19	174	43 50	174 00	217 50
Sarah A. Bull	4	25		25 00	25 00
C. E. Blake	1	10		10 00	10 00
Thos. Ludlam	5	10		10 00	10 00
J. F. Michel	8	10		10 00	10 00
D. Deeth	16	5		6 00	5 00

By order of the Boards of Trustees.
15-5t WM. T. ATWOOD, Secretary.

Revere Gold & Silver Mining Company, Reese River Mining District.—Office No. 22 Lyceum Building, San Francisco, February 23d, 1864.—Notice is hereby given that an assessment of Twenty-five cents per share was this day levied on each and every share of the Capital Stock of the above named Company, payable immediately in U. S. Gold Coin, to the Secretary, at the Office of the Company. By order of the Board of Trustees.
15-4t. H. C. KIBBE, Sec'y.

Omaha Copper Company, Calaveras County.—Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Omaha Copper Company, there will be sold at Public Auction, at the salesroom of Jeromo Bice & Co., No. 327 Montgomery street, San Francisco, on SATURDAY, April 23d, prox., at 11 o'clock A. M. of that day, to the highest bidder for cash, in U. S. gold coin, so many shares of the capital stock of said Company, standing in the names of the following shareholders, as will be necessary for the payment of assessments duly levied thereon by the Board of Trustees, on the 23th of December, 1863, and on the 5th of February, 1864, of twenty cents per share each, together with the expenses of advertising and sale—to wit:

Names.	No. of Shares.	No. Asst.	Amt.
Z. Collin	50	3	$10
S. Foster	5	3	1
I. L. Champlin	10	3	2
S. B. Wooster	15	3	3
F. A. Burch	10	2 3	4
S. C. Norton	10	2 3	4

By order of the Board of Trustees.
13-4t T. A. MUDGE, Secretary, 528 Clay street.

Sonoma Ledge Silver Mining Company, Reese River District, N. T.—Notice is hereby given that at a meeting of the Board of Trustees of the Sonoma Ledge Silver Mining Company, held at their office in San Francisco, March 12, 1864, an assessment (No. 4 of one dollar, was levied on every share in the capital stock of said company, payable immediately, in United States coin, to Julius Sichel, at Austin, N. T., or to DAVID WILDER, Secretary,
12v8-4t. No. 240 Montgomery street.

Potomac Gold and Silver Mining Company, Reese River Mining District, Lander county, N. T.—Office 509 Clay street San Francisco.—Notice is hereby given, that, in accordance with the laws of the State of California and an order duly made by the Board of Trustees of the Potomac Gold and Silver Mining Company, there will be sold at Public Auction, at the salesroom of Jno. Middleton & Son, at 12 o'clock, noon, of MONDAY, the 2d day of May, A. D. 1864, so many shares of the capital stock of said Company, standing in the names of the following persons on its books, as may be necessary for the payment of Assessment No. 1, duly levied thereon August 24, 1863, and Assessment No. 2, duly levied thereon January 25, 1864—each assessment twenty-five (25) cents—together with the cost of advertisement and sale, unless the said assessments are previously paid, with costs accrued:

Names.	Asst. No.	Cert.	Shares.	Amt.
A. Faust	1	16	5	$ 2 50
Robert Lewy	1	8	100	50 00
do	1	20	25	12 50
Leslie Bayley	1	31	5	2 50
R. Lewy	2	37	100	25 00
do	2	38	160	40 00
C. W. Boberts	2	22	25	6 25
J. H. Hardy	2	25	50	12 50
do	2	26	20	5 00
do	2	27	20	5 00
do	2	28	10	2 50

San Francisco, April 2, 1864. GEO. A. BALL, Secretary.
14-4t

Desert Mining Company, Flowery District, N. T.—Notice is hereby given, that on SATURDAY, the twenty-third day of April, 1864, at 12 o'clock, M., there will be sold at auction, at the salesroom of John Middleton & Son, No. 400 Montgomery street, San Francisco, a sufficient number of shares in the capital stock of the Desert Mining Company, standing in the names of the following persons, to pay the assessment (No. 10) of one dollar per share, levied January 20, 1864, together with the expenses of advertising and sale, unless the same shall have been previously paid. viz:

NAMES.	CERTIFICATE.	SHARES.	AM'T.
Bayerque, R.	296	10	$10
Bayerque, R.	319	5	5
Budd, W. C.	304	5	5
Budd, W. C.	305	5	5
Budd, W. C.	345	5	5
Budd, W. C.	346	20	20
Budd, W. C.	347	20	20
Budd, W. C.	348	20	20
Budd, W. C.	349	20	20
Budd, W. C.	350	20	20
Cahill, Edward	274	25	25
Cahill, Edward	303	70	70
Critcher, Henry	300	10	10
Critcher, Henry	317	10	10
Cullen, Jeffrey	151	25	25
Cullen, Jeffrey	151	25	25
Davis, G. H.	352	25	25
Donohue, Ralston & Co.	271	20	20
Fitch, J. R.	360	50	50
Hall, R.	343	5	5
Hay, A. M.	289	5	5
Hall, O. C.	329	5	5
Hedley, F. D.	358	12	12
Hontray, R.	250	10	10
Hyman, P. C.	228	20	20
Hyman, P. C.	229	20	20
Ireland, L. F.	288	10	10
*Lyon, J. H.	5, 6, 22 to 28	100	200
Milliken, I. F.	297	25	25
Moody, W. E.	251	10	10
Morgan, George J.	273	10	10
Morrison, J. C.	290	5	5
Nesmith, J. F.	361	25	25
O'Brien, John	293	3	3
O'Brien, John	326	12	12
Reinhart, E.	330	20	20
Spiers, C. D.	269	25	25
Schmiedell, Henry	356	5	5
Stoutenborough, C. H.	265	10	10
Tebin, R. J.	134	10	10
Van Tassell, T.	221	10	10
Watson, N. A.	140	5	5
Young, D. W.	325	20	20
Young, D. W.	339	5	5

By order of the Board of Trustees.
DAVID WILDER, Secretary,
No. 240 Montgomery street, San Francisco.

* NOTE.—100 shares in the name of J. H. Lyon will be sold subject to assessment No. 9, of one dollar per share, levied March 12, 1863.
12v8-5t DAVID WILDER, Secretary.

Bodie Consolidation Gold and Silver Mining Company, No. 2.—Office, southwest corner of Clay and Montgomery streets, San Francisco.—Notice is hereby given, that in accordance with an order made on the 4th instant, by the Board of Trustees of the Bodie Consolidation Gold and Silver Mining Company, No. 2, there will be sold at public auction, by Jerome Rice & Co., at their salesroom, No. 327 Montgomery street, San Francisco, on WEDNESDAY, the 27th day of April, A. D. 1864, at 11 o'clock A. M., a sufficient number of shares of the capital stock of said Company, standing in the names of the following persons, as may be necessary to pay the assessment levied January 14th, 1864, together with the expense of advertising and sale, unless said assessment and charges are previously paid:

		SHRS.	ASS'T DUE.
William Ayres, Sr	Cert. 482, 483, 484, 485, 486.	50	$25 00
	Shrs. 10, 10, 10, 10, 10.		
Miles Chapin	Cert, 129, 130, 312, 313.	45	22 50
	Shrs. 15, 10, 10, 10.		
G. S. Chapin	Cert. 305, 306.	50	25 00
	Shrs. 25, 25.		
A. L. Chamberlin	Cert. 358.	25	12 50
L. H. Dearborn	Cert. 509.	24	12 00
Thomas Gardner	Cert. 288.	20	10 00
James Laug	Cert. 518.	15	7 50
Jas. F. McFarlane	Cert. 116, 118, 121, 122, 124, 126.	100	50 00
	Shrs. 50, 10, 10, 10, 10, 10.	250	125 00
M. S. Martin	Cert. 380.		
L. W. Newell	Cert. 435, 436, 451, 452.	65	32 50
	Shrs. 25, 15, 15, 10.		
Jonathan Pecl	Cert. 542, 543, 544.	125	62 50
	Shrs. 50, 50, 25.		
Edward Rondel	Cert. 412, 413.	12	6 00
	Shrs. 7, 5.	25	12 50
W. D. Robinson	Cert. 508.	20	10 00
C. H. Stoutenborough	Cert. 364.	25	12 50
Jesse D. Spray	Cert. 515.	50	25
Edward Donahue	Cert. 512, 514.		
	Shrs. 25, 25.		

By order of the Board of Trustees.
A. L. CHAMBERLIN, Secretary.
San Francisco, March 12, 1864. 12v8-5t

Bodie Bluff Consolidation Mining Company, Bodie District, Mono Co., Cal.—February 27th, 1864.—At a meeting of the Board of Trustees of the above named Company, held this day at the Secretary's Office in the town of Aurora, the following among other proceedings were had, viz:—*Resolved*—That an assessment No. 3,) of one dollar upon each share of the Capital stock of the aforesaid Company be and the same is hereby levied, payable immediately in U. S. Gold Coin, or its equivalent in Legal Tender Notes, to the Secretary, at No. 614 Montgomery Street, San Francisco. *Provided*—That all the Stock upon which the assessment (No. 2,) of Fifty cents per share, levied June 13th, 1863, has been paid, only fifty (50) cents per share shall be paid under this assessment.

Resolved.—That the Transfer office of the Company be removed to San Francisco. By order of the Board of Trustees.
11v8-5t F. K. BECHTEL, Sec'y

Phœbus Gold and Silver Mining Company, Big Creek Mining District, Landor county, N. T.—Office No. 1 and 2 Government House, corner Washington and Sansome streets, San Francisco.—Notice is hereby given, that, in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the Phœbus Gold and Silver Mining Company, there will be sold at Public Auction, at the office of the Company, at 11 o'clock A. M., on SATURDAY, the 30th day of April, 1864, so many delinquent shares of the capital stock of the Phœbus Gold and Silver Mining Company, standing in the names of the following persons, as will be necessary for the payment of Assessment No. 1, of twenty cents per share, levied August 21st, 1863, and Assessment No. 2, for fifty cents per share, levied December 1st, 1863, and Assessment No. 3, for fifty cents per share, levied January 26th, 1864, together with costs of advertising and expenses of sale, unless said assessments and charges are previously paid; to the Secretary, at the office of the Company:

Names.	Shares.	Asst. No. 1—20c.	Asst. No. 2—50c.	Asst. No. 3—50c.
Adams, W. P.	11			$5 50
Brown, B. B.	13			6 50
Bland, Adam	10			5 00
Francis, D. B.	7½		$ 3 75	3 75
Gray, B. J.	59		29 50	29 50
Gray, John	130		51 50	53 50
Grotjan, G. W.	25		12 50	12 50
Goyne, F.	10			5 00
Harvey, Joseph	25			12 50
Harvey, James	25			12 50
Irvine, John	190	$38 00	95 00	95 00
Kasson, C. S.	11			5 50
Nahl, H. W. A.	11		5 50	5 50
Parsons, S. H.	170	34 00	85 00	85 00
Phelps, T. O.	11			5 50
Palmer, E. C.	11			5 50
Perkins, J. L.	25			12 50
Rogers, W. H.	100			50 00
Rogers, Robt	5			2 50
Ralph, Thomas	25			12 50
Steere, Robt.	25			12 50
Strout, E. N.	25			12 50
Sherwood, Benj.	10			5 00
Turner, Geo. R.	23		11 50	11 50
Uhrig, C. A.	23		11 50	11 50
Valentine, S. D.	7½		3 75	3 75

S. C. OALLAHER, Secretary.
San Francisco, March 25th, 1864. 13-5t

East Lynn Gold & Silver Mining Company, Inyo District, Tulare County.—Notice—The annual meeting of the Stockholders of the above Company, for the election of Trustees will be held at the office of the Company, 618 Merchant Street, San Francisco, on Monday, April 4th, 1864, at 4 o'clock P. M.
12-3t SAMUEL SMITH, Soc'y.

Lucretia Gold and Silver Mining Company, Summit District, Lander county, N. T.—Notice is hereby given, that at a meeting of the Board of Trustees of the above named Company, held February 13th, 1864, an assessment of twenty-five (25) cents was levied on each share of the capital stock, payable immediately, in gold coin, to the Secretary. H. C. KIBBE, Secretary.
Office, Lyceum Building, cor. Washington & Montgomery Sts.
San Francisco, March 18, 1864. 12v8

Victory Gold and Silver Mining Company, Golden City Gold and Silver Mining Company, Idaho Consolidated Gold and Silver Mining Company—Office, 645 Clay street, San Francisco, March 8th, 1864.—At a meeting of the Board of Trustees of the Victory, Golden City, and Idaho Consolidated Mining Companies, held at their office, March 3d, 1864, an assessment of 25 cents per share was duly levied on each and every share of the assessable stock of the above Companies, payable immediately, in U. S. gold coin, to the Secretary, By order of the Board of Trustees.
13-td M. G. ELMORE, Secretary.

Millard Fillmore Gold and Silver Mining Company, Reese River District, Lander county, Nevada Territory.—An assessment of twenty-five cents per share was levied on the capital stock of the above named Company, on the 3d day of October, 1863, payable at the Company's office; also, an assessment of twenty-five cents per share was levied on the 21st of March, 1864, payable immediately as the Company's office, 305 Montgomery street, S. F., or to B. Cruthers, Austin, N. T. J. S. LUTY, Secretary.
San Francisco, March 24, 1864. 13-4t

Table Mountain Copper Mining Co.—Office, 645 Clay street, San Francisco, March 25th, 1864.—Notice is hereby given that an assessment (No. 5) of 50 cents per share was this day levied on each and every share of the capital stock of the Table Mountain Copper Mining Company, payable immediately, in U. S. gold coin, to the Secretary, or to J. M. Pike, Superintendent, Copperopolis. By order of the Board of Trustees.
13-tf M. G. ELMORE, Secretary.

Walipi Gold and Silver Mining Company, Moss Lode, San Francisco District, Arizona.—Notice is hereby given, that the Board of Trustees of the Walipi Gold & Silver Mining Company, at a meeting of said Board held March 21st 1864, levied an assessment of fifty cents on each and every share of the Capital Stock of said Company, said assessment payable immediately in Gold Coin to the Secretary at the Office of the Company, No. 620 Washington Street, Room No. 3.
13-5t W. AUGUSTUS KNAPP, Sec'y.

Albion Gold & Silver Mining Company.
Asia Gold & Silver Mining Company.
Jupiter Gold & Silver Mining Company.
Live Yankee Gold & Silver Mining Company.
St. Paul Gold & Silver Mining Company.—Notice is hereby given, that at a meeting of the Board of Trustees in each of the above named companies, held at their office in San Francisco December 19, 1863, an assessment of fifty cents was levied on every share in the capital stock of each of said companies, payable immediately, in United States coin, to
DAVID WILDER, Secretary,
12v8-4t. No. 240 Montgomery street.

Maryland Silver Mining Company.
Imperatrice Silver Mining Company.
Belle Silver Mining Company.
Santa Maria Silver Mining Company, Location: Santa Fe District, Lander County, Nevada Territory. The regular Annual Meetings of the Stockholders of the above Companies, for the election of officers, and the transaction of other business, will be held on Friday, the Fifteenth day of April, 1864, at the office of the Secretary, No. 305 Montgomery street.
12v8-4t J. S. LUTY, Sec'y.

Mining and Scientific Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

VOLUME VIII. SAN FRANCISCO, SATURDAY, APRIL 16, 1864. NUMBER 16.

Contents:

No. 16—April 16, 1864.—Contains Twenty Pages.—Wagon Road to Southern California; Nova Scotia Gold Fields; Schools of San Francisco; Facts about Gold; Valuable Suggestions; Mechanical Department; Fair of the Mechanics' Institute; Stock Reports; Sales and Bids; Mining Share Market; Washoe Stock Market; A Nickel Mine; Fine Ore; Mining Gossip; Items; Great Improvement in Engraving; Interesting Experiment; Flax; Monster Gun; Ancient Tin Trade of Britain; Washington Mining District; Reese River Mines; Reese River Letters; Sacramento; Patent Department; Incorporations; Improved Steam Valve.

WAGON ROAD TO SOUTHERN CALIFORNIA.

In a recent letter published in the *Sacramento Union*, from the Washington correspondent of that paper, we find the following:

Representative Cole has introduced in the House bills to aid in constructing wagon and mail roads in California, by granting alternate sections of land on each side of the road, at the rate of three square miles of land to one lineal mile of road. The routes proposed are, first, from the head of Santa Clara valley, through the Salinas plains to San Diego; second, from Gilroy, Santa Clara county, to the Owen's River valley via Visalia, Tulare county. The bills have been referred to the Committee on Public Lands, and will probably pass.

We have heard nothing more of this scheme than is related in the above extract, and can therefore scarcely deny the truth of the correspondent's assertion, yet we can hardly credit it. It seems scarcely possible that our representatives at Washington would let such a bill pass.

The first of these roads mentioned, from the head of Santa Clara Valley to San Diego, would be about 400 miles, we think somewhat more, and the mails have been carried over this route, via the Salinas Plain, San Louis Obispo, Santa Barbara, and Los Angeles, ever since the overland mail was changed from the Southern to the Northern route, early in 1861, or about four years, nor have we heard of any serious complaints of the road. Country roads, mostly in good condition, cover the most of this route. The principal streams are crossed by ferries where parties have obtained such franchises, or in many cases by bridges built by the respective counties.

From the head of the Santa Clara Valley to the head of the Salinas, the roads are so good that they would scarcely be improved by any Company who might get the franchises named, unless it be a small distance not exceeding ten miles at most, perhaps not half that, near the San Antonio River; and, indeed, the roads are not particularly bad now, only some of the grades are rather steep. Nearly the whole of the remainder is over plains, with the finest natural roads, with ferries already established on the streams that are too large to ford.

From the head of the Salinas to San Louis Obispo, over the Santa Lucia Mountains, there is already a good road through the Santa Marguerita Pass, we believe built by the county of S. L. Obispo. This is the nearest route and the lowest pass for this chain, at least it is so said by persons acquainted with the country.

Between San Louis and Santa Barbara, the respective counties expended upwards of $50,000 on this road in 1860-1. The latter county, if we recollect aright, expended $40,000 alone, and made the road through the Garrote Pass a good one.

Between Santa Barbara and the San Fernando valley there are not more than fifteen miles at most that are in need of any expensive improvements, and those portions could be made for a very few thousands of dollars at most; and from the San Fernando to Los Angeles the road is good—the only mountainous portion is the Cahuenga pass, which has been used as a wagon road for many years. Between Los Angeles and San Diego the road is mostly good; a comparatively small portion would need much expenditure to make it very good.

We question if any company would expect to expend over $50,000 on the entire distance, and by such a bill they would receive over 1,200 square miles of land, or three-fourths of a million of acres!

Nor is the case much better for the other road, that from Gilroy to Owen's river, via Visalia.

It would cross the Mt. Diablo chain either by the Pacheco Pass or the Panoche Pass. Through the first of these there is a toll road kept in good condition. Through the second a road was constructed to the Panoche valley by the Company owning the New Idria mines, which is now somewhat out of repair; but repairing this, and extending it about five or six miles from the foot of the Panoche valley, it would reach the San Joaquin plain, over which the road would run about eighty miles without any cost to make it.

Whether the company would propose to construct an entirely new road across the Sierra, we have no positive information, but as there is already a tolerably good road through Walker's Pass—the lowest pass available—we would infer not. But as this road would be from 350 to 400 miles, the bill would appropriate from 1,000 to 1,200 square miles of land more.

Should this bill pass, it certainly makes the acquisition of about one and a half millions of acres—and the most of it valley land—quite easy to the lucky companies. We await future developments.

The Gold Mines of Nova Scotia—The report of Professor Silliman upon the Gold Mines of Nova Scotia, to which we alluded in our last issue, is a most carefully prepared paper, containing much valuable information with regard to that new and interesting field of mining enterprise. The Professor gives the geographical extent of the district as about 6,000 square miles of surface; adding, "Not that gold is to be found in all parts of it, but that it is not unreasonable to search for the precious metal anywhere within this region, where the occurrence of quartz veins—the almost sole matrix of gold—is shown by boulders on the surface." He considers it not improbable that the course of the mining region may be still further extended by more careful researches. A large portion of the region is as yet but little better than an unexplored wilderness. The discoveries hitherto made have been mostly near the seashore where the country is open and accessible. The country, generally, presents most striking evidences of a high degree of glacial action. Everywhere throughout the entire district, the eye of the observer is constantly arrested by long lines of boulders, which have been left in trains by the ancient glaciers upon the surfaces of the polished rocks, strongly recalling the moraines of the Swiss glaciers.

A general absence of alluvial soil is everywhere noticed. The bed-rock of the country has been, as it were, scoured off; its loose materials, with any gold which it might have contained, having been buried in the Atlantic Ocean, there being no intervening valley to receive it. That much alluvial gold has thus been carried off with the debris, is beyond a doubt. Mr. Campbell, the provincial geologist, informed Professor Silliman that he had himself found scale gold by washing the sands of Sable Island, a low sand spit 100 miles from the main shore. The sands which form this island came, without doubt, from the main land of Nova Scotia. It follows from the above that no extensive surface diggings can be expected in these mines, although there are doubtless places of considerable extent in the frequent bays and harbors along the coast where auriferous sands exist in remunerative quantity. There are numerous lakes which can be drained, and which the professor thinks may form rich deposits of alluvial gold.

The gold-bearing veins of quartz traverse a very close, compact slate. Of these there are two classes or sets, one of which intersects or cuts across the stratified rocks of the country, while the other is conformable thereto. The former are very irregular in their course, and seldom carry much gold. They are known by the local name of "Bull Veins." The second are the gold-bearing class; are generally very regular; not usually more than six or eight inches in thickness, often but a mere line; although there are two or three which measure from six to eight feet in thickness. The narrow veins, as a general thing, are found to be the richest. The gold veins carry a large proportion of sulphurets. The gold is almost invariably associated with the sulphurets, where it is visible, and most frequently with the mispickel (a species of sulphurets), or arsenical pyrites. The Professor often saw it with zinc blend, and more rarely with galena. The mispickel is frequently found on the foot wall, occurring as bunches oftentimes of many pounds weight and invariably auriferous. At one point (Montague) scarcely a lump of this mispickel can be broken without exposing the precious metal, and detached pieces are not unfrequently held together by golden threads, or little veins. We shall make further extracts and collations from this report, next week.

Hot Weather.—The weather for several days past has been unusually warm, the thermometer ranging, during the middle of the day, from 70 to 80 degrees in the shade. The dog days are upon us before their time.

Northern Sierra rejoices in five feet of snow.

[Written for the Mining and Scientific Press.]

Private Schools in San Francisco.

BY A SPECIAL CONTRIBUTOR.

The progress of education is, if possible, still more remarkable. The College of California, at Oakland, is a thoroughly organized institution of learning, with a comprehensive and liberal "course of study," and an able corps of professors. It has also been established upon a solid pecuniary basis, and promises to become an ornament and honor to the State. The Roman Catholic College, in Santa Clara county, is also spoken of as an institution of a high order of merit; and the same may be said of the Methodist College, in the same county, under the charge of Dr. Bannister.

Female education has received much attention, and it may fairly be doubted whether any of the famous schools in the Atlantic States furnish greater facilities for the thorough education of girls than some of our California seminaries.

The girls' school at Benicia, for many years under the charge of Miss Atkins, has long enjoyed a desirably high reputation. The Roman Catholic schools at San José have been, and continue to be, held in high esteem. The Commercial school at the same place, under the management of Mr. Freeman Gates, though but recently established, has gained a high reputation among the denomination most actively concerned in setting it in operation. At Vacaville, a very large and flourishing school, numbering several hundreds of pupils, and in large and efficient corps of teachers, is in operation. In the two seminaries last referred to, both boys and girls are admitted as pupils—a system which is admitted by many as open to grave objections.

In the city of San Francisco, there are a number of schools of very high grade. The "City College," a boys' school, under the charge of Rev. Dr. Burroughs, as principal, furnishes facilities for a complete academic course. The City Female Seminary, Rev. Russell C. Clark, Principal, commenced some two years since in the basement of Calvary Church, with a small number of pupils. It was mainly under Presbyterian patronage, and its success has been such that it has been removed into a new building, erected for its accommodation, on O'Farrell street, and now numbers over one hundred pupils. The "California Collegiate Institute for Young Ladies," No. 64 Silver street, Mrs. M. B. Swedenstierna Principal, is a very thoroughly organized school. The course of study is quite as comprehensive as in the best schools for girls in the Atlantic States, and perfect system pervades the whole institution. It is organized into three distinct departments—the primary, the preparatory, and the collegiate. Latin is a part of the "regular course," and more attention is paid to mathematics than is usual in female seminaries. The plan adopted at this school does not admit of large classes, and requires an unusual number of teachers in proportion to the number of pupils. It numbers, at present, about eighty boarding and day pupils. A "parish school," under the auspices of the Episcopal Church, has recently been commenced in the basement of Grace Church, on Stockton street. It now numbers some twenty-five or thirty pupils. The school of Mr. and Mrs. Planel, on Stockton street, has been in existence for many years, and is supposed to afford peculiar advantages for the study of French and music. Union College, at the corner of Second and Bryant streets, is a collegiate school for boys, under the charge of Rev. Dr. Huddart. The building is spacious, and admirably arranged for the purposes to which it is devoted, and the school is highly spoken of.

Oakland, eight miles from San Francisco, also boasts of a number of educational institutions. Among these are the College of California, already referred to, the Preparatory School of the Rev. Mr. Brayton, and the Young Ladies' Seminary of Mrs. Blake. The Rev. Mr. Walsworth, a Presbyterian clergyman, is erecting a mammoth female school at the same place, capable of accommodating *a thousand pupils*.

Upon the whole, there seems to be abundant provision for the education of the rising generation; and if parents will *look and judge for themselves*, instead of relying blindly upon careless report or newspaper puffs, they will have no difficulty in providing for the thorough education of their children, without "sending them East."

FACTS ABOUT GOLD.

Gold is generally found in a metalic state, though never pure. It almost invariably contains a certain quantity of silver as an alloy; sometimes copper and iron. Some metallurgists hold that gold occasionally occurs as a sulphuret. It is known to occur in several other mineral combinations. A mineral sometimes known as "graphic gold," occurs in Transylvania, in narrow veins which traverse porphyry. The name is due to the peculiar arrangement of its crystals, which resembles antimony. This is a highly valuable ore of about the following average composition:—Tellurium 60, gold 30, silver 10, equal 100. Precipitated with the above ore is also another mineral known as aurotellurite, of a whitish brass color, composition about as follows:—Tellurium 47, gold 28, silver 11, lead 14, equal 100. A mineral known as "gold amalgam" has also been found in the platinum region of Columbia, South America, composed as follows:—Mercury 57.40, gold 38.40, silver 4.21, equal 100. This metal occurs in small white grains, about the size of a pea, easily crumbling. Native gold occurs in beautiful arborescent shapes, and sometimes in beautiful crystals and filiform shapes. The nuggets and scales of placer gold are always worn and usually flattened into a scale like form. With regard to its native purity, out of 51 assays recorded by Dana, of gold from nearly every portion of the globe, the lowest was 60.08; the highest 98.96. Among the curiosities of gold, F. Alger has described a crystal of gold obtained in this State, octahedral in form, of the extraordinary size of five-sixteenths of an inch. The crystal is cavernous, the faces concave about the center.

Crystals of gold seldom occur in an isolated form; but when found should be carefully preserved as cabinet specimens, for which purpose their value is much greater than their intrinsic worth. We have at this office a beautiful specimen of flat filiform gold, taken out of a quartz mine in Tuolumne county. Quite a quantity (several ounces) was taken from a crevice, intermixed with clay. After the clay was washed away, the gold, under a glass, presented the appearance of a tangled mass of ribbon shaped fibres, continuous in length, and almost as thin as gold leaf.

Next to iron, gold is the most widely diffused metal on the surface of the globe. It occurs in nearly every geological formation. It is nineteen times heavier than water, and is the heaviest of all known metals with the exception of platinum. Previous to the mineral discoveries in California and Australia, the chief part of the gold which found its way into use was derived from the Russian mines, Gold is the first metal spoken of in the Bible. The earliest mention of it is in Genesis ii, 11, where it is alluded to as being found in the land of Havilah, where the Euphrates and Tigris unite. The sacred writer mentions this fact in immediate connection with his description of the Garden of Eden; he moreover says that "the gold of that land is good."

The entire quantity of gold which has been taken out of the earth, to the present time, is set down at nine thousand millions of dollars. The quantity still remaining is estimated at three millions, which welded into a solid mass, might be contained in a cube of eleven feet. We condense the following additional facts from the *Merchants Magazine*:—

The relative value of gold to silver, in the days of the patriarch Abraham, was one to eight; at the period B. C. 1000, it was one to twelve; B. C. 500, it was one to thirteen; at the commencement of the Christian Era, it was one to nine; A. D. 500, it was one to eighteen; A. D. 1100, it was one to eight; A. D. 1400, it was one to eleven; A. D. 1613, it was one to thirteen; A. D. 1700, it was one to fifteen and a half; which latter ratio, with but slight variation, it has maintained to the present day.

Gold was considered bullion in Palestine for a long period after silver had been current as money. The first mention of gold money in the Bible is in David's reign, (B. C. 1056,) when that king is said to have bought the threshing floor of Ornan for six hundred shekels of gold by weight. In the earlier period of Grecian history the quantity of the precious metals increased but slowly, the circulating medium did not increase in proportion with the quantity of bullion. In the days of early Greece, the precious metals existed in great abundance in the Levant. Cabul and Little Thibet (B. C. 500) were abundant in gold. It seems to be a well ascertained fact that it was obtained near the surface; so that countries which formerly yielded the metal in great abundance are now entirely destitute of it. Crœsus (B. C. 560) coined the golden *stater*, which contained one hundred and thirty-three grains of pure metal. Darius coined *darics*, containing one hundred and twenty-four grains of pure gold, which were preferred, for several ages, throughout the East for their fineness. Darics are supposed to be mentioned in the latter books of the Old Testament under the name of *drams*. Very few specimens of the *daric* have come down to us; their scarcity may be accounted for by the fact that, after the conquest of Persia, they were melted down, under the type of Alexander. Gold coin was by no means plenty in Greece, until Philip of Macedon had put the mines of Thrace in full operation, about B. C. 360. Gold was also obtained by the Greeks from Asia Minor, India, Arabia, Armenia, Colchis, and Troas. There are only about a dozen Greek gold coins in existence, three of which are in the British Museum, two are *staters*. About B. C. 207, gold coins were first struck at Rome, and denominated *aurei*, four specimens of which are in the institution before alluded to.

A cubic inch of gold is worth at $18.98 per ounce, one hundred and forty-six dollars; a cubic foot, two hundred and fifty-two thousand two hundred and eighty-eight dollars; a cubic yard, six millions eight hundred and eleven thousand seven hundred and seventy-six dollars.

The annual product of gold at various periods has been estimated as follows:—

A. D 14	$800,000
500	200,000
1000	80,000
1492	100,000
1600	2,500,000
1700	6,000,000
1800	15,000,000
1843	31,000,000
1848	46,000,000
1851	139,000,000
1858	250,000,000

The amount of gold in existence at various periods is estimated to be as follows:—

A. D. 14	$427,000,000
500	100,000,000
1000	40,000,000
1492	57,000,000
1600	200,000,000
1700	400,000,000
1800	1,100,000,000
1843	1,750,000,000
1848	1,824,000,000
1851	2,200,000,000
1858	3,000,000,000

Of the latter amount, twenty-five hundred millions is estimated to be in gold coin and bullion, and the remainder in watches, jewelry, plate, etc., etc.

Since 1792, the gold coinage of the United States mint has amounted to five hundred and fifty millions of dollars, of which four hundred and sixty-four millions have been issued since 1850. The gold coinage of the French mint, since 1720, has amounted to sixty-one hundred and forty-three millions of francs, of which thirty-one hundred and thirty-two millions have been issued since 1850. The gold coinage of the British mint since 1603, has amounted to two hundred and fifty-one millions of pounds sterling, of which sixty-one millions have been issued since 1850. The gold coinage of the Russian mint, since 1664, has amounted to four hundred and fifty-three millions of roubles, of which one hundred and eighty millions have been issued since 1850. By experiments made at the United States mint, it has been ascertained that the wear and tear of half-eagles is a tenth of one per cent. per annum. Eagles exhibit less, whilst quarter-eagles and dollar pieces exhibit more.

Gold coins were first issued in England in A. D. 1257, in the shape of a penny. Florins were next coined in 1344, of the value of six shillings. The guinea was first issued in 1663, of Guinea gold. The present sovereign was first issued in 1817.

The fact that the large amount of gold which has been thrown into the monetary circulation of the world, within the last decade, has exercised so little influence upon the money market or prices generally, is at variance with the predictions of financial writers upon both sides of the Atlantic. The increase in

the present production of gold, compared with former periods, is enormous; and it would not be surprising, if, in view of the explorations which are going on in Africa, South America, and countries bordering upon the equator, within the next decade, the product should be a million of dollars *daily*. The price of gold has not diminished, although the supply has increased seven-fold within fifteen years.

An Ancient Tin Trade of Britain.—At a recent entertainment of the Southampton Polytecnic Institution, given at the Royal Victoria Rooms, Colonel Sir Henry James delivered an interesting address on the Ancient Phœnician Tin Trade, of which the following is an abstract: He said it had been a matter of discussion for many thousands of years, since the days of Herodotus, as to the direction in which, and the place from whence, the ancients obtained their supply of tin. In the earliest accounts the Phœnicians were said to have passed through the Pillars of Hercules, or the Straits of Gibralta, in order to search for the tin islands, and it was also stated that the tin came from a place of six days' navigation. A more detailed account was furnished by Diodorus, who, in giving a description of Britain, tells us that it is these people who raise the tin, which they cast into a certain form, and afterwards carry it to an island which has this peculiarity—that it is an island at high water, and, peninsula at low water; then they may embark it, and take it to Gaul, after which they carry it 30 days on horseback to the Mediterranean. As there is no other place but Cornwall where the tin is found, they know that is the spot to which all these observations refer. Translators, however, had erred in describing the form in which the tin was cast as being in the shape of cubes or dice. About 50 years ago a block of tin was dredged up in Falmouth Harbor (a model of which was exhibited,) flat on one side and curved on the other, with a portion cut out at either end, thus forming four points. It had been described as a double canoe, a butcher's tray, and all sorts of descriptions had been given to it: but it was proved that this block of tin was one of the identical blocks cast in the form described. He had no hesitation in saying that St. Michael's Mount answered the description of Diodorus in every possible degree. At high water it was surrounded; at low water there was a roadway across, on which a friend had told him he had driven a coach and four, and to this day the tin obtained from that island was brought across in carts for embarkation. When they came to put the facts together they would find, in the discovery of this block of tin, a wonderful confirmation of the fact that this was the place referred to. Sir Henry referred to other facts, with a view of establishing the descriptions of the ancients, and at the conclusion of his address he was loudly applauded.

Singular Explosion.—The Napa Reporter, of the 2d inst, had a letter from a workman at the artesian well being bored at Calistoga Springs, Napa county, Cal., which gives the following account of a singular submarine explosion: From some cause or other the pumps got out of order, and the workmen poured some cold water down them to see if it would make them work. When the cold water came in contact with the hot it caused an explosion, throwing a stream of hot water several feet in the air—some say forty feet, and others much higher. One or two of the men were slightly scalded.

Discouraging from Idaho.—Chase, a returned Boise miner, is not by any means sanguine about the chances in that inhospitable region. He says the mines in California are much richer than those of Idaho—that in the latter country they occupy a very limited space and are poor at that. It was estimated that 80,000 men in Idaho were out of employment, and everything exorbitantly high. The climate is cold and they have ice there in August. It is nothing uncommon to have four or five feet of snow which lasts through the Winter.—*Aurora Times.*

Washoe Coal for Gas.—The Virginia Gas Company have made a test of some five hundred pounds of coal from El Dorado cañon and found it a very fair article for gas, though that at present obtained contained a rather large per cent. of water—a troublesome per cent. The company say that the coal will answer very well for the manufacture of gas but in order to use it some additional apparatus will be required for expelling the water from the coal before using it. The coal companies offer their coal at $30 per ton.

The Taunton Locomotive Company are building an extensive improvement to their works.

[Re-published by Request.]

An Act Concerning Assessments upon the Stock of Corporations.

Section 1. The Trustees of any corporation, formed under the general laws of this State, shall have power to levy and collect, for the purpose of paying the proper and legal expenses of such corporation, assessments upon the capital stock thereof, in the manner and form and to the extent hereinafter provided, and not otherwise.

Section 2. No assessment shall exceed five per cent. of the capital stock of the corporation, and none shall be levied while any portion of any previous assessment shall remain unpaid, or uncollected, except in cases where all the powers of the corporation shall have been exercised in accordance with the terms of this act, for the purpose of collecting such previous assessments, and except, also, the collection of a previous assessment against one or more stockholders, restrained by injunction or otherwise; in which case, further assessment may be levied according to this act.

Section 3. No assessment shall be levied except by order of the Board of Trustees, concurred in by a majority of said Board, and entered upon the records of the corporation.

Section 4. Every order levying an assesment shall specify the amount thereof and the time when, the person or persons to whom, and the place or places where, the same is payable. It shall also appoint a day for the advertisement of the delinquent list, which shall not be less than thirty nor more than thirty-five days from the time of the making of such order; and a day for the sale of delinquent stock, which shall not be less than ten nor more than twenty days from the time appointed for the advertisement of the delinquent list.

Section 5. Upon the making of such an order, the Secretary shall cause to be published immediately a notice thereof in the following form:

"[Name in full.] [Location of works.] Notice is hereby given, that at a meeting of the Trustees of said Company, held on the [date] an assessment of [amount] per share was levied upon the capital stock of said Company, payable [when, to whom, and where, particularly]. Any stock upon which said assessment shall remain unpaid on the [day fixed] will be advertised on that day as delinquent and unless payment shall be made before, will be sold on the [day appointed] to pay the delinquent assessment, together with costs of advertising and expenses of the sale. [Signature of Secretary, with particular location of office.]"

Section 6. Said notice shall be published once each week for four successive weeks, in a daily or weekly paper, published in the place designated in the articles of incorporation as the principle place of business of the corporation, and also in some paper published in the County in which the works of the corporation are situated, if a paper be published therein; *provided*, that if the works of the corporation are not situated within some State or Territory of the United States, then publication in a paper of the County shall not be necessary; and *provided, also*, that if there is no paper regularly issued on Saturdays at any place where publication is required to be made, the notice may be published in every issue of the paper which is most frequently issued at such place, for the full period of four weeks; and *provided, also*, that there is no newspaper published at that place designated as the principal place of business of the corporation, then the publication shall be made in the newspaper published nearest thereto; and *provided, also*, that the notice specified in the 5th section of this act may be served by delivering a copy thereof, certified by the Secretary, to each stockholder personally, and in case of such service upon all the stockholders of said corporation, then no notice by publication shall be necessary, and such personal notice shall be deemed complete.

Section 7. If any portion of the assessment mentioned in said notice shall remain unpaid on the day specified for the publication of the notice of sale, the secretary shall, unless otherwise ordered by the Board of Trustees, cause to be published in the same papers in which the notice provided for in section 5 shall have been published, a notice substantially in the following form:

"[Name in full; location of works.] *Notice.*—There is delinquent upon the following described stock, on account of assessment levied on the [date,] [and assessments levied previous thereto, if any,] the several amounts set opposite the names of the respective shareholders, as follows: [Names, number of certificates, number of shares, amount.] And in accordance with law, and an order of the Board of Trustees, made on the [date,] if any such order shall have been made, so many shares of each parcel of said stock as may be necessary will be sold at the particular place, on the [date,] at [the hour,] of said day, to pay said delinquent assessments thereon, together with costs of the advertising and expenses of the sale. [Name of the Secretary with location of office.]"

Section 8. Said last named notice shall state every certificate of stock separately, with the number of shares which it represents, and the amount due thereon, except where certificates may not have been issued to parties entitled thereto, in which case the number of shares, and the amount due thereon, together with the fact that the certificates for such shares have not been issued, shall be stated.

Section 9. Said notice, when published in a daily or weekly paper, or in both, shall be published as follows: When published in a daily paper, the same shall be published for a period of ten days, excluding Sundays and holidays, previous to the day of sale: when published in a weekly paper, the same shall be published for two weeks previous to the day of sale, the first publication in the weekly being at least fourteen days prior to the day of sale.

Section 10. By the publication of the said notices, as hereinbefore provided, the corporation shall acquire jurisdiction to sell and convey a full, complete, and absolute title to all of the stock described in the notice of sale upon which any portion of the assessment or costs of advertising shall remain unpaid at the hour appointed for the sale, but shall sell no more stock than is necessary to pay assessments due, and costs of sale.

Section 11. On the day and at the place, and as nearly as may be at the hour appointed in the notice of sale, the Secretary shall, unless otherwise ordered by the Board of Trustees, sell, or caused to be sold at public auction, to the highest bidder for cash, so many shares of each parcel of said described stock as may be necessary to pay the assessment and charges thereon, according to the terms of said notice: *provided*, that if payment be made before the time fixed for sale, the party paying shall only be required to pay the added cost of advertising.

Section 12. The person offering at such sale to pay assessment and costs for the smallest number of shares, or fraction of a share, shall be deemed the highest bidder.

Section 13. The time fixed in any notice published according to the provisions, may be at once extended for a period of not more than ten days, by order of the Board of Trustees, duly made and entered on the records of the corporation; but no order extending the time for the performance of any act specified in any notice shall be effectual, unless notice of such extension or postponement be appended to and published with the notice to which the order relates, before the completion of the regular course of publication thereof.

Section 14. No assessment duly levied shall be rendered invalid by a failure to make proper publication of the notices hereinbefore provided for, nor by the non-performance of any act required to be performed in order to enforce the payment of the same; but in case of any substantial error or omission in the course of proceedings for collection, all previous proceedings, except the levying of the assessment, shall be void, and publication shall be begun anew.

Section 15. All acts and parts of acts inconsistent with the provisions of this act are hereby repealed; provided that such repeal shall not affect proceedings commenced for the collection of assessments heretofore levied, but all such assessments may be collected in accordance with the provisions of the laws then in force.

Section 16. This act shall take effect immediately.

The above Act received the signature of the Governor and became a law of the State of California, on the 4th day of April, 1864.

Daney. — The last accounts received from the mine state that the water in the shaft is falling at the rate of from four to five inches per day, and their prospects are looking much better.

It is the "Fulton" Foundry, at Virginia City, at which castings of 6,000 pounds are readily made. The average aggregate weight of eastings made per day is between five and six tons.

Nova Scotia Grindstones are now largely superceded by those obtained in Ohio, which for all the different varieties of grit, either for wet or dry grinding, are pronounced equal, if not superior, to the best English stone.

The Ames Plow Company, with $400,000 capital, has been organized in Boston, to manufacture agricultural implements. O. Ames, President; E. Tasker, Treasurer.

Stock Reports.

Sales of the Week.

[To Friday Evening April 16.]

S. F. Stock and Exchange Board.

SATURDAY, APRIL 9th 1864.

MORNING SESSION—11½ O'CLOCK A. M.

8 shares Gould & Gurry at $4500 per foot.
16 do Gholiar at $315 per foot.
12 do Chollar at 320, per foot.
2 do Uncle Sam at $1000.
20 do Antelope at $150, b 30.
10 do Real del Monte at $71.
10 do Real del Monte at 71½.
10 do Real del Monto at 72.
10 do North Potosi at $47½.
5 do North Potosi at $46.
10 do North Potosi at 50, b 30.
10 do North Potosi at 49, b 15.
10 do North Potosi at 48, b 30.
10 do North Potosi at 44.
5 do North Potosi at 42.
31 do North Potosi at 43½.
15 do North Potosi at 44.
50 do Blue Ledge at $22, b 20.
5 do Lady Bryan at $48.
50 do Lady Bryan at 48½.
10 do Gentral American at $14.
10 do North American at $142½.
70 do North American at 145, b 30.
10 do North American at 136.
10 do North American at 137.
60 do Baltic at $165, b 30.
10 do Baltic at 160, b 30.
10 do Baltic at 157½, b 30.
5 do Burning Moscow at $95.
5 do Burning Moscow, at $94.
20 do Buckeye at $17.
40 do Buckeye at $17½.

AFTERNOON SESSION—3 O'CLOCK P. M.

12 do Chollar at $320.
20 do Daney at $105 per foot.
40 do Sacramento and Meredith at $50.
20 do Saeramento and Mereditb at 52.
10 do Sacramento and Mereditb at 52½.
40 do Baltic at $160.
20 do Baltic at 165, b 15.
5 do Bullion at $72, b 30.
5 do Central American at $15.
10 do Gentral American at 14½.
5 do North Potosi at 45.
10 do North Potosi at 43.
5 do North Potosi at 42.
10 do North Potosi at 40, b 30.
10 do North Potosi at 41.
10 do Nortb American at 136, b 3.
10 do Nortb American at 135.
10 do Nortb American at 135, b 15.
5 do Nortb American at 130.
20 do Nortb American at 125.
10 do Nortb American at 123.
10 do Nortb American at 118.
5 do Nortb American at 115.
80 do Kbickerbocker at $37½.
20 do Buckeye at $17.
25 do Blue Ledge at $20.
25 do Rock Island at $27½.

S. F. Stock and Exchange Bd. sales....$125,687 00

MONDAY, APRIL 11th.

MORNING SESSION—11½ O'CLOCK P. M.

4 shares Gould & Gurry at $4520 per foot.
2 do Gould & Curry at 4525 per foot.
1 do Savage at $2650.
64 do Gholiar at $320.
60 do Daney at $105 per foot,
40 bo Daney at $102½ per foot, s 30.
80 do Sacramento and Mereditb at $52¾.
40 do Sacramento and Mereditb at 50.
40 do Sacramento and Mereditb at 51.
35 do North Potosi at $40.
15 do Nortb Potosi at 40½.
20 do Nortb Potosi at 41.
5 do Pride of the West at $87½.
70 do Lady Bryan at $48.
30 do Lady Bryan at 47½.
10 do Lady Bryan at 46½, s 30.
20 do Lady Bryan at 50, b 30.
150 do Lady Bryan at 48, b 10.
65 do Buckeye at $18.
10 do Wide West at $20½.
10 do Wide West at 20.
5 do Real del Monte at 75.
10 do Real del Monte at 78.
20 do Real del Monte at 70.
5 do Real del Monte at 81, b 30.
10 do Real del Monte at 77.
30 do Empress, G. H., at $35.
90 do Empress, G. H., at 31.
50 do Empress, G. H., at 30, s 4.
15 do Kaickerbocker at $40.
20 do Central American at $13.
20 do Central American at 14
7 do North American at $132.
55 do North America, at 135.
10 do North America at 131, s 15.
10 do North American at 131, s 30.

AFTERNOON SESSION—3 O'CLOCK, P. M.

120 do Ophir at $1600 per foot.
8 do Daney at $102¼ per foot.
16 do Daney at 105.
4 do El Dorado at $40.
20 do Real del Monte at $80.
10 do Real del Monte at 79.
15 do Real del Monte at 82½.
10 do Real del Monte at 80, s 10.
5 do Real del Monte at 84.
15 do Real del Monte at 85.
5 do Real del Monte at 87½.
10 do Real del Monte at 90.
10 do Real del Monte at 95, b 30.
10 do Real del Monte at 91.
25 do Real del Monte at 92½.
10 do Real del Monte at 93.
10 do Real del Monte at 94.
20 do Blue Ledge at $20.
25 do Empress, G. H., at $31, s 4.
4 do Novada, J. G., at $100.
20 do Nevada, J. G., at 105, b 30.
10 do Nevada, J. G., at 110, b 30.
10 do Nevada, J. G., at 105.
5 do North Potosi at $39.
5 do Nortb Potosi at 38.
50 do Nortb Potosi at 38½.
10 do Lady Bryan at 46½, s 30.
10 shares Lady Bryan at 48, b 10.
10 do North American at $137.
5 do Burning Moscow at $85.
60 do Baltic at $155.
50 do Buckeye at $18.

S. F. Stock and Exchange Bd. sales....$250,990 00

TUESDAY, APRIL 12th.

MORNING SESSION—11½ O'CLOCK, A. M.

10 shares Gould & Gurry at $4550 per foot.
2 do Savage at 2650.
40 do Daney at $102.
20 do Daney at 100.
34 do Sacramento and Mereditb at $50.
34 do Sacramento and Meredith at 52½.
20 do Saeramento and Meredith at 53.
12 do Burning Moscow at $85, s 2.
10 do Burning Moscow at $86½.
25 do Burning Moscow at 86.
5 do Burning Moscow at 87.
5 do Antelope at $200, b 30.
60 do Lady Bryan at $46½.
30 do Lady Bryan at 47.
10 do Lady Bryan at 46, s 10.
40 do Lady Bryan, at 47 b 30.
10 do Imperial at $165.
5 do Baltic at $157½.
10 do Baltic at 155.
10 do North American at $132½.
290 do North American at $135.
10 do North American at 132, s 30.
65 do Nortb American at 136.
120 do Real del Monte at $100.
20 do Real del Monte at 105, b 30.
50 do Real del Monte at 102½.
10 do Real del Monte at 103.
15 do Real del Monte at 107, b 20.
20 do Real del Monte at 110, b 30.
10 do Real del Monto at 104.
10 do Real del Mouto at 107½, 30.
20 do Galodonia Tunnel at $25.
20 do Nevada, J. G., at $100.
11 do Nevada, J. G., at 108.
15 do Nevada, J. G., at $102½, s 5.
5 do Nevada, J. G., at $105, s 5.
5 do Nevada, J. G., at 105, b 5.
20 do Nevada, J. G., at 105.
30 do Nevada, J. G., at 100, s 30.
5 do Bajazet at $60.
30 do Buckeye at $16½.
20 do Buckeye at 16.
5 do Wide West at $21.
20 do Kaickerbocker, G. H., at $34.

AFTERNOON SESSION—3 O'CLOCK P. M.

2 do Potosi at $1060 per foot.
1 do Savage at $2650.
2 do Yellow Jacket at $1075 per foot.
5 do Nevada, J. G., at $100.
80 do Nevada, J. G., at 110.
10 do Nevada, J. G., at 115, b 30.
10 do North American at 135.
20 do Nortb American at 134.
10 do North American at 130.
50 do Nortb American at 133.
10 do North American at 133½.
50 do Nortb American at 130, s 30.
10 do North Americau at 132½.
30 do Nortb American at 131.
10 do Nortb American at 132.
5 do Central American at $15.
20 do Gentral American at 14.
20 do El Dorado at $50, b 30.
10 do Lady Bryan at $45½.
100 do Lady Bryan at 45.
20 do Lady Bryan at 44½, a 15.
50 do Lady Bryan at 44.
10 do Lady Bryan at 44, s 15.
10 do Lady Bryan at 45, b 5.
30 do Lady Bryan at 45, b 10.
10 do Real del Monte at $90, b 30.
5 do Real del Monte at 92, b 30.
10 do Real del Monte at 80.
20 do Real del Monte at 85.
20 do Baltimore American at $49, b 30.

S. F. Stock and Exchange Bd. sales $174,681 00

WEDNESDAY, APRIL 13.

MORNING SESSION—11½ O'CLOCK, A. M.

64 sharas Sacramento & Mereditb at $51.
40 do Daney at $100.
5 do Adriatic at $9.
5 do Pride of tbe West at 85.
20 do Lady Bryan at $43, b 3.
40 do Lady Bryan at 44, b 8.
15 do Lady Bryan at 43.
50 do Lady Bryan at 44½, b 30.
40 do Lady Bryan at 47, b 30.
30 do Lady Bryan at 44, b 10.
10 do Lady Bryan at 43½, b 10.
51 do Lady Bryan at 44.
10 do Lady Bryan at 45, s 10.
20 do Lady Bryan at 44, s 30.
30 do Lady Bryan at 45.
10 do Lady Bryan at 47, b 30.
10 do Melones at $40.
20 do Nevada, J. G., at $110.
10 do Central American at $15.
10 do Central American at 13.
20 do Galedonia Tunnol at 24½.
25 do Lafayette at $13.
10 do Buckeye at $16.
5 do Imperial at $165.
10 do Real del Monte at $85.
10 do Real del Monto at 83.
10 do Real del Monte at 87½, b 30.
5 do Real del Monte at 82½.
10 do Real del Monte at 81½.
20 do Real del Monte at 85, b 30.
10 do Nortb Potosi at $42, b 30.
15 do North Potosi at 48.
5 do Burning Moscow at $85.
126 do Baltimore American at $50.
40 do Baltimore American at 50, b 10.
10 do Baltimore American at 51.
30 do Baltimore American at 52.
10 do Baltimore American at 42½, b 10.
10 do Baltimore American at 52½.
30 do North American at $130, s 10.

AFTERNOON SESSION—3 O'CLOCK, P. M.

25 do Blue Ledge at $17, s 30.
20 do Blue Ledge at 18.
5 do Melones at $40, b 5.
10 do Bullion, G. H., at $71.
10 do Bullion, G. H., at 74.
10 do Bullion, G. H., at 70, s 30.
5 do Bullion, G. H., at 76, b 30.
20 do Lady Bryan at $45.
2 do Imperial at $165.
20 do North American at 132 50, s 30.
50 do North American at 137 50, b 30.
25 shares North American at 134.
5 do North American at 139, s 10.
10 do Baltimore American at $40.
100 do Lafayette, G. H., at $14, b 30.
65 do Lafayette, G. H., at 13.
20 do Real del Monte at $92 50.

S. F. Stock and Exchange Bd. sales.....$ 67,961 00

THURSDAY, APRIL 14.

MORNING SESSION—11½ A. M.

40 shares North Potosi at $52.
50 do Nortb Potosi at 51.
10 do Nortb Potosi at 55, b 30.
20 do North Potosi at 53.
10 do North Potosi at 55, b 10.
10 do El Dorado at $41.
2 do Bajazet at $50, s 10.
5 do Real del Monto at $88.
5 do Real del Monto at 87½.
20 do Real del Moate at 86.
105 do Nortb American at $135.
35 do North American at 136.
70 do North American at 137½.
10 do North American at 140, b 10.
170 do Lady Bryan $44.
10 do Lady Bryan at 42, s 30.
65 do Lady Bryan at 43, a 30.
10 do Lady Bryan at 45, b 10.
25 do Lady Bryan at 46, b 30.
40 do Lady Bryan at 45, b 15.
15 do Bullion, G. H., at $76, b 30.
10 do Imperial at $165, s 4.
55 do Baltimore American at $50.
20 do Baltimore American at 52, b 20.
30 do Baltimore American at 61, b 10.
25 do Lafayette, G. H., at $12, s 4.
25 do Rock Island at $40.
10 do Baltic at $150, b 30.
10 do Blue Ledge at $18.
10 do Blue Ledge at 19, b 30.
25 do Blue Ledge at 16½, s 30.
10 do Lord Byron, D. G., at $13, b 30.
5 do Wide West at $24, b 30.
20 do Burning Moscow at $86.
10 do Burning Mosecw at 84, s 30.
10 do Independeat, G. H., at $57½.
10 do Buckeyo at $13.

AFTERNOON SESSION—3 O'CLOCK P. M.

24 do Ophir at $1540 per foot, stmr day.
7 do Yellow Jacket at $1025.
4 do Chollar at $350.
35 do Buckeye at $14.
50 do Lady Bryan at $44.
50 do Lady Bryan at 43 50.
20 do Lady Bryan at 45 50.
30 do North Potosi at 02 50.
20 do North Potosi at 63.
10 do Nortb Potosi at 62.
30 do North Potosi at 60.
25 do Nevada, N. G., at $115.
10 do North American at 142.
20 do North American at 147.
20 do North America at 148.
10 do North America at 145, s 30.
5 do North American at 149.
10 do North American at 151.
10 do Nortb American at 155, b 20.
10 do North American at 155, b 15.
10 do Baltic at $150, b 30.
40 do Baltic at 145.
10 do Lafayette, G. H., at $14.
10 do Real del Monte at 87 50, b 15.
10 do Real del Monto nt 86 50.

S. F. Stock and Exchange Bd. sales.....$166,688 50

FRIDAY, APRIL 15.

MORNING SESSION—11½ O'CLOCK A. M:

4 sharea Gonld & Curry at 4550 per foot,
4 do Gonld & Curry at 4530 per foot,
4 po Sacramento Valley, R R, at 27,
1 do Savage at 2550,
5 do Savage at 2500,
2 do Uncle Sam, 100 per foot,
50 do Chollar, 300 per foot,
4 do Saeramento & Meredith at 50,
10 do North Potosi ot 65,
15 do North Potosi at 64,
20 do North Potosi at 55, b 5,
10 do Nortb Potosi at 62 50,
20 do North Potosi at 62,
40 do Nortb Potosi at 58, s 30,
16 do North Potosi at 60,
6 do North Potosi at 61,
10 do Lady Bryan at 44,
20 do Lady Bryan at 45,
50 do Lady Bryan at 47, b 30,
20 do Lady Bryan at 46,
10 do Lady Bryan at 47 50, b 20,
10 do Lady Bryan at 46 50,
20 do Lady Bryan at 43, b 30,
10 do Lady Bryan at 47,
10 do Bullion, G H, at 73,
8 do Bullion, G H, at 76, s 30
5 do Burning Moscow at 89, a 3,
10 do Burning Moscow at 97 50, b 30,
67 do Baltimore American at 50,
10 do Baltimore American at 48, s 30,
10 do Imperial at 165,
20 do Mount Davieson at 2 50,
100 do Bodie Bluff at 1 50,
10 do North American at 157 50,
20 do Nortb Amcrican at 155, b 20,
10 do Norch American at 149,
10 do North American at 148,
10 do North American at 140, s 60,
25 do Norte American at 147 50,
10 do North American at 155, b 20,
25 do Blue Ledge at 13,
15 do Nevada, J G, 110,
50 do Lafayette, G H, at 12 50,

AFTERNOON SESSION, 3 O'CLOCK P. M.

30 sbares Lady Bryan at 48, b 30,
25 do Lady Bryan at 46,
40 do Lady Bryan at 46 50,
10 do Lady Bryan at 46 50, r w,
10 do Lady Bryan at 49, b 30,
5 do Burning Moscow at 96,
10 do Burning Moscow at 100,
40 do Burning Moscow at 101,
5 do Burning Moscow at 103,
10 do Imperial at 155, s 4,
5 do Justis at 110,
8 do Bullion, G H, at 76, b 30,
10 do North American at 147 50,
10 do North American at 146,
10 do North American at 143, s 20,
10 do North American ot 144, s 30,
10 do North Potosi at 64,
30 do North Potosi at 63
50 do North Potosi at 60, s 20,
10 shares Nortb Potosi at 05, b 30,
5 do North Potosi at 62,
20 do Nortb Potosi at 64, r w,
10 do North Potosi at 61, a 10, n d,

S. F. Stock and Exchange Bd. sales....$897,021 00

Pacific Board of Brokers.

SATURDAY, APRIL 9th, 1864.

10 do Braring Moscow at $100, b 30.
10 do North American at $140.
10 do Rough & Ready, R. R., at $70.
10 do Rough & Ready, R. R., at 72½.
10 do Baltimore American at $45, b 30.
40 do Caledonia Tunnel at $27, b 30.
5 do Nortb Potosi at $39½.
10 do Blue Ledge at $21.
6 do Wide West at $22, b 30
10 do Buckeyo at $18.
5 do Harmon at $30.
50 do Lady Bryan at $48.
59 do Lady Bryan at 48½.
10 do Lady Bryan at 49, a 5.
15 do Blue Ledge at 21.
10 do Harmon at $27½, s 10.
10 do Baltimore American at $42.
10 do Baltimore American at 45, b 30.
20 do Central American at $15.
10 do Central American at $16½, b 30.
20 do Central American at 17½, b 30.
10 do Lord Byron, D. G., at $10, b 30.
15 do Lord Byron, L. G., at 12, b 30.
5 do Real del Monte at $72.
5 do Real del Monte at 73.
48 do Lady Bryan, at $48¾.
10 do Lady Bryan, at 48¾.
45 do Buckeye at $18, 3 d.
20 do Buckeye at 17½.
30 do Buckeye at 18.
15 do Buckeyo at 20, b 30.
50 do Buckeye at 18½, 3 d.
20 do Buckeye at 18½.
20 do Grockett at 10½.
10 do North Potosi at $44.

Sales by the Pacific Board of Brokers.. $17,119 50

MONDAY, APRIL 11th.

10 do Nortb American at 130.
5 do Real del Monte at $72½.
10 do Gentral American at 16½.
20 do Gentral American at 17.
60 do Buckeyo at $18¾.
30 do Josephine, Coso, at $4.
40 po Josephine, Coso, at 5.
30 do Lady Bryan at $48.
10 do Lady Bryan at 47½.
20 do Lady Bryan at 49, b 9.
20 do Lady Bryan at 47½, s 8.
20 do Lady Bryan at 51, b 30.
20 do Lady Bryan at 47, a 15.
20 do Gentral American at $10.
10 do Ceatral American at 15½.
10 do Lafayette, G. H., at $12.
40 do Lafayette, G. H., at 12½.
30 do Buckeye at 18.
20 do Lady Bryan at 47½.
5 do Real del Monte, at $75.
10 do Real del Moate, at 77.
35 do Real del Monte, at $78.
5 do Real del Monte at $79.
20 do Josepbine, Coso, at $5¾.
10 do Rough & Ready, R. R., at $90.
15 do Burning Moscow, at $90
30 do Caledonia Tuancl at $25.

Pacific Board of Brokers' sales..... $19,288 00

TUESDAY, APRIL 12th.

10 do North American at $135.
20 do Daney at $105, b 30.
5 do Real del Monte at 97½.
5 do Real del Moato at 98½.
45 do Real del Monte at 99.
5 do Real del Monto at 100.
5 do Real del Moate at 105, b 30.
20 do Real del Monte at 106, b 30.
25 do Real del Monte at 100.
5 do Real del Monte at 95.
10 do Real del Moate at 96.
10 do Real del Monte at 105, b 30, n d.
30 do Lady Bryan at $47.
10 do Lady Bryan at 47¾.
10 do Lady Bryan at 47½.
10 do Lady Bryan at 48.
10 do Lady Bryan at 49, b 15.
20 do Lady Bryan at 50, b 30.
30 do Lady Bryan at 48, b 10.
80 do Lady Bryan at 46½.
60 do Lady Bryan at 47½, b 10.
10 do Lady Bryan at 48, b 20.
10 do Lady Bryan, at 45, s 30.
10 do Lady Bryan, at 47, b 15.
50 do Lady Bryan, at 46½, b 10.
20 do Lady Bryan, at 46.
10 do Lady Bryan, at 45½.
45 do Caledonia Tuanel at 25.
10 do Lafayette, G. H., at $15.
10 do Central American at 16.
30 do Central American at 15¾.
10 do Harmon at 324.
10 do Buckeye at $17¾.
15 do Baltimore American at $41½.
10 do North American at 137½.
10 do Josephine, Coso, at $6½, b 30.
75 do Josephine, Coso, at 5.
30 do Josephine, Coso, at 5¾.
50 do Josephine, Goso, at 6, b 30.
10 do Blue Ledge at $19.
10 do Blue Ledge at 19¼.
10 do Blue Ledge at 21, b 30.
10 do St Lawrence Cent'l, Inyo Dist. at 75.

Sales by the Pacific Board of Brokers.. 41,209 50

WEDNESDAY, APRIL 13.

10 shares Nortb American at $133½.
10 do North American at 135.
60 do Lady Bryan at $43¾.
85 do Lady Bryan at 44.
10 do Baltimore American at 46.
10 do Baltimore American at 47.
20 do Baltimore American at 50, b 30
10 do Lord Byron, D. G., at $11.
20 do Goso at $4½.
5 do Lafayette, G. H., at $13
20 do Josephine, Coso, at $4.
50 do Josephine, Goso, at 4¼.
10 do Real del Monto at $75, s 30
30 do Caledonia Tunnel at $24.
10 do Lady Bryan at $44, a 10.
70 do Lady Bryan at 45.
10 do Lady Bryan at 45½
10 do Lady Bryan at 44½, s 30.

10 shares Lady Bryan at 47, b 30.
10 do Lady Bryan at 45, s 8.
10 do North Star, R. R., at $30.
15 do Santa Rosa at $2½.

Sales by the Pacific Board of Brokers.. $9,927 50

THURSDAY, AARIL 14.

4 shares Gould & Curry at $4575.
100 do Lady Bryan at $44.
20 do Lady Bryan at 44 50.
30 do Lady Bryan at 45.
55 do Lady Bryan at 45 50, b 30.
80 do Lady Bryan at 46, b 30.
10 do Lady Bryan at 45¾, b 30.
50 do Lady Bryan at 43, s 20.
10 do Lady Bryan at 52, s 30.
40 do Bransido, at $11.
115 do Lafayette, G. H., at $13.
05 do Lafayette, G. H., at 14, h 30.
20 do Baltimore American at 46 50, s 10.
10 do Real del Monte at $90, s 30.
7 do Adriatic at $8.
10 do Real del Monte at $86.
40 do Lady Bryan at $45 50, b 30.
30 do Lady Bryan at 41.
10 do Lady Bryan at 42, s 30.
20 do Lady Bryan at 46, b 30.
10 do Lady Bryan at 43 50.
20 do North Star, R. R, at $35.
10 do Lancaster, R. R., at $9.
10 do Lancaster, R. R., at 10.
50 do Josephine, Coso, at $1 50.
10 do Table Mountain, copper, at $17 50.
13 do Chas. Cany at $4.
5 do Buckeye at $15.
10 do Saata Rosa at $4.
25 do Lafayette, G. H., at $13.
60 do Central American at $12 50.
30 do Central American at $12 75.
10 do Central American ot 13.
10 do Empress at 25.

Pacific Board of Brokers' sales..... 42,896 50

FRIDAY APRIL 15.

10 sbares Real del Monto at 80,
10 do Real del Monto at 85, b 30,
10 do Lady Bryan at 43 50,
10 do Lady Bryan at 44,
20 do Lady Bryan at 44 50,
40 do Caledonia Tunnel at 22,
10 do Santa Rosa at 5,
5 do Cosmopolitan, copper, at 4,
29 do Lafayette, G. H., at 13,
10 do North Star, R R, at 35,
20 do Daney at 100 per foot,
6 do Burning Moscow at 64,
20 do Burnside at 11 50,
30 do St Lawrence Central, 1 D, at 75,
10 do Harmon at 30,
10 do Harmon at 31,
50 do Harmon at 35, b 20,
10 do Baltimore American at 50,
10 do Baltimore American at 53, h 30,
20 do Central American at 11 25,
6 do Santa Rosa at 5 22,
20 do Lafayette, G H, at 12 25,
10 do Lafayette, G H, at 12 50,
20 do Lady Bryan at 46,
10 do Lady Bryan at 46 50,
10 do Lady Bryan at 43 50, s 30.

Sales by the Pacific Board of Brokers. $14,517 00

Stock Exchange.

SATURDAY, APRIL 9th, 1864.

20 do Caledonia Tunnel at $25.
10 do Silver Hill at $7½.
18 do Josephiao, Coso, at $3.
5 do Wide West at 21.
10 do Crockett at $9½.
10 do Crockett at 12, b 30.
30 do Crockett at 12½, b 30.
20 do Crockett at 11.
10 do Harmon at $25.
5 do Harmon at $24½.
20 do Seneca at $12.
10 do Franco-Americano at $6¾.
5 do Real del Monte at $70.
10 do Buckeyo at $18.
10 do Buckeye at 18¼.
20 do Buckeyo at 19.
20 do Mt. Bullion at 50c.
5 do Harmon, E., at $25½.
5 do Red Jacket at $7.
6 do Wide West at $22.
20 do Blue Ledge at 21.

Stock Exchange sales $4,037 50

MONDAY, APRIL 11th.

20 do Buckeye at $20, b 30.
10 do Lady Bryan at $40, b 5.
60 do Harmon at 26.
30 do Harmon, unass., at 26.
40 do Crockett at $10¾.
40 do Josephine, Coso, at $0.
20 do Josephine, Coso, at 6½, b 30.
111 do Josepbine, Coso, at 6.

Stock Exchange sales..... $4,586 00

TUESDAY, APRIL 12th.

5 do Lafayette, G. H., at $13.
00 do Crockett at $10½.
5 do Harmon at $21.
5 do Harmon at 21.
10 do Harmon at 22½
5 do Harmon at 19.
10 do Harmon at 20.
5 do St. Lawrence Tunnel at $75.
23 do Real del Monte at 101.
20 do Lady Bryan at 46.
10 do Santa Rosa, at $30.
10 do Blue Ledge at $18.
2½ do Seneca at $12.
10 do Lord Byron, D. G., $10.
10 do Crockett at $9.
10 do Crockett Consolidated at $25.
5 do Michigan, G. H., at $35.
20 do Real del Monte at $02½.
35 do Real del Monte at 86.
10 do Harmon at $19¼.
10 do Red Jacket, R. R., at $5½.
35 do Kohlor Bros. at $15.
10 do Pony Express at $5.
20 do Blue Ledge at $18¾.

Sales by the Stock Exchange..... 12,708 00

WEDNESDAY, APRIL 13.

80 shares Lafayette, G. H., at $12.
30 do Crockett at $8.
10 do Crockett at 9½, b 30.

San Francisco Stock and Exchange Board.—Prices Bid and Asked.

				Saturday.		Monday.		Tuesday.		Wednesday.		Thursday.		Friday.	
WASHOE STOCKS.	FEET.	SHARES.	VAL.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.
Ophir	1,400	16,800	300	1,550	1,600	1,575	1,590	1,550	1,600	1,475	1,580	1,500	1,510	—	1,550
Gould & Curry	1,200	4,800	500	4,520	—	4,525	4,600	4,540	4,600	—	4,600	4,450	4,550	4,530	4,540
Savage	800	800	2,000	2,550	2,650	2,650	2,650	2,650	2,650	2,500	—	—	—	2,500	2,550
Chollar	1,400	5,600	800	310	340	321	350	315	350	310	—	325	350	350	357½
Potosi	1,400	2,800	500	—	1,125	—	1,140	—	—	850	1,050	850	1,050	850	1,050
Hale & Norcross	400	800	500	—	—	—	—	—	—	500	700	—	625	—	650
Sierra Nevada	3,000	3,000	500	51	75	50	65	40	—	—	—	50	72½	50	70
Daney	2,000	800	60	100	105	105	105	98	—	97½	100	95	100	90½	100
Burning Moscow	4,100	4,100	500	93	94	80	90	86	87	85	86	86½	87½	94	97¾
North Potosi	2,000	2,000	250	44	45	37½	40	41	51	48	48	53	55	50	60¾
Charles Cany	1,800	1,800	30	—	—	—	—	—	10	—	—	—	—	—	—
Iowa	1,200	1,200	1,000	—	—	—	—	—	—	—	55	—	—	—	—
El Dorado	1,600	1,600	500	—	—	35	36	40	50	35	48	41	42½	—	40
Norton	1,600	1,600	50	2	—	—	—	2	5	2	—	2½	4½	—	5
Burnside	2,800	2,800	600	12	13	12	13	12	—	—	—	—	12	12	13
Adriatic	2,700	2,700	100	8½	10	—	11	—	11	9	10	—	10	—	11
Pride of the West	1,400	1,400	100	91	—	87½	—	87½	90	80	87½	—	87½	80	84
Imperial	184	4,000	500	167½	175	160	180	165	170	160	170	162½	167½	162½	163
Crown Point	600	1,200	100	—	—	—	—	—	—	—	—	—	—	—	—
Manhattan	—	—	—	—	7	—	—	—	8	—	—	—	—	—	—
Seneca	—	—	—	10	—	14	15	7	15	—	—	—	—	—	—
Mt. Davidson tun'l.	1,000	1,000	200	2	3	2	2½	2	3	—	2½	—	—	2½	2½
Caledonia Tunnel	—	—	—	20	27½	24½	26	25	30	24	25	22½	25	21	25
Bajazet & G. Era	4,000	4,000	300	50	62½	52	—	60	60	50	55	50	51	—	60
Cedar Hill tunnel	—	1,000	100	—	—	—	—	—	—	—	—	—	—	—	—
Gold Hill Quartz Mill	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ESMERALDA.															
Wide West	1,400	1,400	2,600	20¾	26	20	23	21	22	21	28	21½	22½	21	25
Antelope	1,200	1,200	600	—	150	170	180	180	200	—	200	—	—	150	190
Esmeralda	1,600	1,600	1,000	—	20	6½	10	—	—	6	12	—	—	6½	12
Real del Monte	4,400	4,400	400	72	74	76	77	100	102½	81	82	85	86	83	84
Utah	1,600	1,600	250	—	—	16	22	—	—	16	20	—	—	—	—
Silver Hill	3,000	3,000	500	—	—	—	—	—	—	—	—	—	—	—	—
Nevada	600	1,200	250	—	—	—	—	—	—	—	—	—	—	—	—
Falls of Clyde	6,000	6,000	100	—	—	—	—	—	—	—	—	—	—	—	—
Bamboo	600	600	500	—	35	—	—	—	—	—	—	—	—	—	—
Crockett	—	—	—	10	—	10	15	—	—	6	10	—	—	—	—
Federal Hope	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Jenny Lind	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
COSO.															
Josephine	9,600	4,800	2,500	2½	—	3	—	6	—	3	6	3	6	—	7
Willow Springs	2,700	2,700	100	—	4	—	—	—	—	—	—	—	—	—	—
Coso	2,600	3,600	500	—	3	2½	—	3	—	2	10	—	5	—	—
COPPER.															
Napoleon	2,700	2,700	600	—	80	—	80	65	80	—	—	—	80	—	80
Josephine	—	—	—	—	6	—	—	—	7	2	5	—	—	—	—
CALIFORNIA.															
Laurel Hill	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rhodes Diggings	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—
Fellowes	2,500	2,500	100	—	—	—	—	—	—	—	—	—	—	—	—
Maxwell	—	—	—	50	80	—	—	—	—	—	—	—	—	—	—
Rock River	—	—	—	—	—	—	—	—	—	—	—	—	50	—	—
Eureka	—	—	—	—	40	—	35	—	—	—	40	—	39	—	40
HUMBOLDT STOCKS.															
De Soto	1,980	1,980	100	31	50	—	40	35	45	30	50	33	50	30	—
Great Basin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1¾

5 do Wide West at $22.
10 do Harmon at $15, s 30.
30 do Harmon at 18, s 30.
15 do Fanny Rayne, O. R., at $50.
10 do Baltimore American at $48.
11 do Baltimore American at 51.
10 do Laclead at $40.
44 do Coso, at $4.
11 do Michigan, G. H., at $30.
10 do Maggy Green at $4.
20 do Lafayette, G. H., at $13, b 30.
10 do Harmon at 20, s 30.
5 do Harmon at 23.
5 do Mammoth, S. M., at 3 50.
28 do Lady Bryan at 45 50.

Stock Exchange sales,..... $4,672 00

THURSDAY, APRIL 14.

10 do Baltimore American at 54, 2 w.
30 do Lafayette, G H., at 13 50.
30 do Lafayette, G. H., at 13 25.
10 do Lafayette, G. H., at 13.
10 do Table Mountain, copper, at 17 50.
20 do Crockett at 9.
10 do Coso at 4 50.
40 do Alemania, Mex., at 16.
20 do Kohler Brothers at 20.
5 do Lady Bryan at 44,
20 do Lady Bryan at 43,
5 do Lady Bryan at 42 50,
10 do Caledonia Tunnel at 24,
10 do Blue Ledge at 18,
10 do Blue Ledge at 16 50,
15 do Wide West at 22 50.
5 do Leviatban, O R, at 50,
28 do Lord Byron, D G, at 11 50,
10 do Lord Byron, D G, at 12,
15 do Harmon at 25,

Stock Exchange sales..... 35,752 00

FRIDAY, APRIL 15.

20 sbares Lafayette, G H, at 13 50,
10 do Lafayette, G H, at 12 50,
22 do Harmon at 25,
10 do Harmon at 28,
5 do Harmon at 29,
10 do Harmon at 30,
10 do Harmon at 32,
10 do Lady Bryan at 47, b 16,
10 do Lady Bryan at 46,
5 do Kohler Brothers at 19 50,
25 do Kohler Brothers at 21,
17 do Mount Davidson Tunnel at 50c,
5 do Baltimore American at 50,
10 do Seneca at 12.

Sales by the Stock Exchange $4,350 00

City Stock Exchange Bd. of Brokers.

SATURDAY, APRIL 9th, 1864.

24 do Coatral No. 2, at $900, b 30.
10 do Baltimore American, at $42.
10 do Crockett, at $12, h 30.
30 do Crockett at $12½, b 30.
20 do Crockett at 11.
100 do Union Star at 1.
10 do Blue Ledge at 21½.

City S. Exchange Bd. of Broker's sales. $22,851 00

MONDAY, APRIL 11th.

50 do Crockett at $11.
75 do Crockett at 12, b 30.
30 do Crockett at 10½.
10 do Crockett at 11½, b 30.
10 do Crockett at 11½.
10 do Green at $1½.
25 do Pine Leaf at $7¾.
10 do Pine Leaf at 7.
10 do Baltic at $3.

City Stock & Exchange sales, ... 4,235 00

TUESDAY, APRIL 12th.

10 do Harmon at $20½.
10 do Lady Bryan at 46¾.
5 do Lady Bryan at 47.
20 do Real del Monte at $102½.
10 do Crockett at $10½.
10 do Crockett at 10.
10 do Crockett at 10, b 10.
10 do Crockett at 9½.
30 do Crockett at 9.
10 do Crockett at 10, b 30.
10 do Green, G. H., at $2.
4 do Wide West at $21.

City Stock Exchange Sales..... $4,806 50

WEDNESDAY, APRIL 13.

25 sbares Seneca at $13, b 30.
25 do Seneca at 12.
45 do Buckeye, D. G. at $18½, b 30.
4 do Crown Point Ravine at $6½.
20 do Crown Point Ravine at 7, b 30.
5 do Real del Monte at $90, b 30, n d.
5 do Real del Monte at $82.
7 do Blue Ledge at $17½.
10 do Blue Ledge at 18.
8 do Crockett at $9.
50 do Crockett at 9½, b 30.

Sales by the City Stock Exchange..... $4,185 00

THURSDAY, APRIL 14,

25 shares Josepbino at 4 50.
5 do Harmon at 20, s 30.
10 do Buckeye at 13 50,
5 do Real del Monte at 90, b 30, n d.
50 do Crockett at 9 50, b 30.
20 do Amador, R R, at 75.
25 do Empress, G. H., at 23.
10 do Blue Ledge at 18.
10 do Caledonia Tunnel at 21 50.
10 do Crown Point Ravine ot 6.

Sales by the City Stock Exchange..... 5,492 50

Total sales of the week, by all Boards $1,952,554 00

Gold in New York.

Saturday April 9.....169.
Monday April 11.....174.
Tuesday April 12.....175.
Wednesday, April 13.....180

Legal Tender Notes.

San Francisco, Friday April 8th....59 per cent.

A very useful apparatus is now on exhibition at the patent office, Washington, invented by Mr F. N. Gisborne, the originator of the Atlantic cable, for communicating the signal required in workiog the engines of steamships, or in steering vessels of all sorts, by means of telegraphic wires. The commuuication is instantaneous, and the apparatus is so arranged as to make it trustworthy and certain. The officer on deck has only to move an index upon a dial under his hand to cause a correspondiog movement to appear directly before the eyes of the pilot or engineer, whose attention is insured by the ringing of a bell, as a part of the telegraphic movement. Meanwhile the action of the pilot or engineer, in response to the order, is telegraphed back to the officer by automatic motion, so that all possibility of mistake is avoided. Mr. Gisborne's apparatus has been examined and approved by some of the highest nautical authorities in foreign countries and in our own, and has been actually used in several vessels. He has patents in the principal maritime coautries.

Mining and Scientific Press.—Having missed a few numbers of this excellent paper, we feared it had ceased to exchange; but as it has again resumed its regularity, we are a little easier on the subject. The Mining Press is an almost indispensable companion to the miner and mill man, and when in our peregrinations we find it in the cabin of the one or the office of the other, we look for, and invariably find, a superior intelligence and more satisfactory working than where it is unknown, and its precepts ignored. We would dislike to be deprived of it, either as editors, miners, millers, or mechanics.—*Reese River Reveille.*

Mechanical Department.

FAIR OF THE MECHANICS' INSTITUTE.

At a meeting of the officers of the Mechanics' Institute, of this city, held on Tuesday evening last, active steps were taken for holding an Industrial Fair the coming fall. The Fair will open on the 30th day of August. Suitable buildings will be erected therefor on Union Square, the temporary use of which has been tendered the Association for that purpose, by the Board of Supervisors. Now that definite arrangements have been made for such an exhibition, it is to be hoped that every one will do all that is possible to make the same creditable to the city and State, and a success in every particular.

Five years have nearly elapsed since the holding of the last Fair. Within that time the advance of our city and State in mechanical and manufacturing industry is a marvel even in the history of American progress. It is to be hoped that the proposed exhibition will be essentially Californian in character, and that the citizens of Oregon and the adjacent Territories, whose interests and sympathies are so intimately connected with this State, will unite their efforts with us in this exhibition of our common industry. There is no population in the Union, in proportion to its numbers, which has been more prolific of useful inventions, during the past five years than that upon the Pacific Coast. We trust that every individual who has accomplished anything in this line will see to it that his invention is properly represented at the approaching exhibition. Ample room will be afforded for all, and full particulars of all the steps necessary to be taken to secure the benefit of the same, will be made known in a few days. All information of this character, of whatever nature, will be fully given in the columns of this paper. Senator Porter, of Contra Costa, has been chosen as the especial agent of the Institute to transact business for the Fair, from the present time until its close. The circular of the Secretary will be found in another column.

The Pittsburg Monster Gun.—Much interest seems to be felt in the late successful casting of the 20-inch gun at the Pittsburg foundry. The spherical solid shot designed for this gun will weigh 1,000 lbs. It is said that, if rifled, the gun will carry an elongated shot of nearly a ton weight!

The matter of this extraordinary casting was brought to the attention of the American Polytechnic Association, at its meeting held in New York on the 25th of February. At that meeting much discussion was elicited respecting large castings. One great difficulty attending them heretofore has been the liability of porousness in the casting. This difficulty in the present case was obviated by the cold water which was kept circulating through the core, during the process of casting and chilling. One member remarked that this question of the even quality of large castings was an important one. More importance seems to have been attached to it than was warranted. This fact was enforced by citing an instance of a recent production of a solid piece of cast iron measuring 5 feet diameter by 7 in length. It was not cast in a mould, but accidentally "chilled" in a ladle; it had been poured into the ladle to be used with other meltings, to form a bed plate for a steam ship, but when the men were ready to pour it, it was found to be chilled. It was said that it would not pay to break it up; but the breaking was afterwards accomplished, and on examining the fragments he was surprised to find its texture even and consistent to the center.

Gas from Cotton Seed.—In several of the Southern cities which have lately been captured by the United States forces, cotton seed is the only material used for making gas. The pressed *cake* has long been used for gas-making with excellent results.

Scientific Experiments.—At a late meeting of the Paris Academy of Sciences, M. Perrot described some experiments made for the purpose of ascertaining the best form to be given to the extremity of a lightning conductor. A large metal plate, intended to perform the part of a cloud charged with electricity, was put into communication with the electrical machine until the electrometer marked ten degrees. A metallic rod was then brought nearer and nearer to the plate in a perpendicular position, until a discharge was obtained. Of the three rods thus tried, one was rounded off at the extremity, the second ended in a common point, and the third in a very sharp one. The first caused a discharge at a distance, which was taken for a unit; the second discharged the plate at a distance which was under twelve of these units, and the third discharged it at the distance of twelve units, its action beginning to be felt at a distance thirteentimes greater than that of the common point.

The Virtues of Borax.—The washerwomen of Holland and Belgium, who get up their linen so beautifully white, use refined borax as a washing powder instead of soda, in the proportion of a large handful of borax powder to about ten gallons of boiling water; they save in soap nearly half. All the large washing establishments adopted the same mode. For laces, cambrics, etc., an extra quantity of the powder is used, and for crinolines (required to be made very stiff) a strong solution is necessary. Borax being a semi-neutral salt, it does not in the slightest degree injure the texture of the finest linen; its effect is to soften the hardest water, and, therefore, it should be kept on every toilet table.

The New Bedford Copper Company's mill was in operation 275 days in 1863, during which 2,113 tuns of metals were melted, and about 2,500,000 pounds of yellow metal sheaving, heavy yellow metal plates for Government vessels, and bolts, were turned out, and an increase of 33 per cent. on the production of the preceding year. The cost of manufacturing was about the same as in 1862, the improved facilities and increased skill being countervailed by the enhanced cost of material. Five per cent. of the metals melted are lost—passing off through the chimneys. Most, if not all, this waste will be prevented by a new apparatus, which arrests the flying particles of the molten metal.

Scotch Pig-Iron.—"Figures are independent of sentiment and sympathies." In the spring of 1848, when war broke out in Germany, the stock of pig-iron in Scotland was 100,000 tons, and the furnaces in blast were 100, producing 11,500 tons weekly. The price was then 50s, and it thereafter rapidly fell to 40s. per ton, fluctuating between 36s and 45s. till July, 1852. To-day the stock is upwards of 800,000 tons, with 134 furnaces in blast, making about 24,000 tons weekly. The price is 62s. 6d. per ton, being about 10s. per ton above the average of the last six years.

The Haydenville Brass Works have been established some fifteen years, and now employ 150 hands in manufacturing brass work for plumbers, engine builders and machinists. They have a high reputation for perfection of finish and manufacture. The business of plumbers' supplies has increased so much of late that their Boston agents, Messrs. Dalton & Ingersoll, have given up a large hardware trade, and are now engaged entirely in these specialities.

Mechanics Excluded.—At one time the rich merchants and professional men of Philadelphia proposed to form themselves into a social circle, from which all mechanics were to be excluded. The papers were drawn up for this purpose, and presented to Dr. Franklin for his signature. On examining its contents he remarked that he could not consent to write his name, inasmuch as by excluding mechanics from their circle, they had excluded the Almighty, who was the greatest mechanic of the universe.

The Coal Famine.—In some parts of the Western States coal is lamentably scarce, and prices continue high. This state of affairs it is thought will cause the development of many new mines, and will lead capitalists to remedy the deficiency of transportation which is so sensibly experienced.

Wooden Gas-pipe.—Some of the Eastern gas companies, it is said, are experimenting with wooden gas-pipe, well coated with coal-tar. This is in consequence of the high price of iron pipe. It is thought that the leakage accounts of these companies will be large.

Fair of the Mechanics' Institute of the City of San Francisco.

The Institute has resolved to hold its fourth Industrial Fair. The time set for opening it to the public is Tuesday, the 30th day of August, 1864.

A leading object of the Institute is to foster the mechanical arts, elevate the character of the workmen, and stimulate ingenuity, invention, skill and industry in all their branches, in the hope of exercising a wholesome influence upon the general prosperity of the country. Our Fairs bring together inventors, manufacturers, workmen, and the public—producers and consumers.

They promote personal intercourse and interchange of ideas among them. The exhibition of the products of skill and industry imparts useful knowledge as well as pleasure, excites commendable emulation, and marks the advance of our country in useful productions. The Fair brings to the notice of the consumer new and improved articles for his use. It is the best advertisement for the inventor or producer.

It is the desire of the Institute to make their Fairs to increase in usefulness, instruction, and entertainment to the public. The Directors and other officers will spare no pains for this purpose. They earnestly solicit the co-operation of every inventor, artist, manufacturer, machinist, miner, farmer, horticulturalist, and of producers generally, in California, Oregon, and the adjoining Territories, and invite them to prepare articles for exhibition. There will be room for all, and all will be cordially welcomed.

In due time advertisements will be made by the Institute, giving notice of the proper time for forwarding articles, of the arrangements for receiving them, of the rules and regulations for the government of the Fair, and of the proper channels of communication and correspondence. The Institute hopes and requests that the press generally, of California, Oregon, and the Territories will give circulation to this first notice of the Fair in such manner and with such comments as may appear to the respective editors best calculated to bring the subject to the attention of their readers.

By order of the Executive Committee,

P. B. Dexter, Secretary.

Flax is rapidly coming into large use for manufacturing purposes. Great improvements have recently been made, both in the process of bleaching and in its manufacture. For most purposes it is far superior to cotton; and the ingenuity brought to bear upon its manufacture, in consequence of the existing high price of that material, promises to secure for it a far more important position, in our manufacturing industry, than it has hitherto attained, and a permanent one. Flax is now produced cheaply, white as snow, or colored with the most brilliant hues. Calico is now made of about 50 per cent. of flax; cotton flannel ditto; and a variety of fabrics, which have heretofore been made of cotton, are now manufactured with a large proportion of flax. Flax is even worked, in combination with wool, into a very handsome broadcloth.

At a manufactory in Lockport, N. Y., only five days are required to convert the raw material into a perfectly white manufactured article. This establishment is under the management of an English expert, whose life has been devoted to the business of manufacturing flax. A large portion of the material is obtained from the neighboring farmers at $15 per ton; and the farmers are preparing for a much more extensive crop the coming year.

Eastern Railroad Monopolies.—Some of the railroad companies between New York and Washington hold exclusive privileges—especially the one passing through New Jersey—granted by their respective State Legislatures, when railroading was in its infancy and its future growth and importance not well understood. These monopolies have grown rich and powerfully oppressive. It has been suggested, as a measure for breaking up these monopolies and securing reasonable privileges to the people and the Government, that Congress should assert its constitutional privilege of *constructing a military road* between those two cities. The press is very unanimous in urging such a step. It is to be hoped that the suggestion will be carried out.

Mining Gossip.

EDITED BY.....FRANK WANDRELL.
FOR THE MINING AND SCIENTIFIC PRESS.

DECISION.—In the case between Shipley and Larrimore, wherein an action was brought by the plaintiff to secure the amount of $2,875, being the difference sustained upon an order to purchase and the sale of the said purchase of ten shares of Real del Monte stock; also the commission upon the same, amounting to $50—was decided by the jury returning the following verdict, on the 9th instant: "We find for the plaintiff (Shipley), and assess the damages in the sum of $2,925." This verdict carries costs. The counsel for the defendant applied for a stay of proceedings for twenty days, which was granted. Messrs. Pixley, Smith and Hale appeared for plaintiff, and Messrs. Spencer and Jarboe for defendant.

PERSONAL.—Among the numerous passengers who took their departure for the East, on the steamer Golden City, on the 13th inst., we notice, among others, the names of our much esteemed friends, Mr. and Mrs. Jacob Underhill, Mr. and Mrs. B. Howard, Mr. E. Leonard, Mrs. R. L. Ogden, Mr. and Mrs. James Otis, Miss Macondray, Miss Sather and J. C. L. Wadsworth. We wisht them a pleasant trip, and trust, ere long, to have the agreeable duty of welcoming them among us again.

INLERS.—As San Francisco is so much infested with the following described class of individuals, we are prompted to clip the annexed extract, and publish it for their *especial benefit*:—"There are many people who are too indolent to work themselves, and while they are loafing about and see others who are industrious and at work, will stop and talk to them by the hour, with no other ostensible purpose but to prevent them from working. Such persons have a very limited idea of the value of time; if none to them, it surely has value to others. Such facts should be remembered."

LAWYERS AT LAW.—MR. W. T. WALLACE *vs.* THE QUICKSILVER MINING COMPANY.—The plaintiff in this action has filed a complaint, and summons has been accordingly issued against the defendants. It asks for judgment in the sum of $2,000 for legal services rendered them as attorney and counsel for the said defendants. Mr. Patterson, another attorney, has also commenced proceedings upon the same ground of complaint for the sum of $3,000.

HEAVY LOSS.—It is said that one of the prime causes of the recent heavy failure which took place in this city, during the past week, is attributed principally to reckless speculations in stock. We learn of one single instance wherein the parties lost in a transaction the sum of $75,000. Really this should be a warning to many of our mercantile houses, who are addicted, to a great extent, in this same species of mining gambling. It is quite time that more prudence should be exhibited in stock transactions.

OFF IN HASTE.—Rumor has it that a well known and at one time an extensive operator in "feet," who, for some time past, has been residing at Virginia City, took rather a *hasty departure*, overland, for the East, a few days ago. Some say that in his haste he forgot to settle several very important matters. As the party is well known in the community, we refrain from giving his name until we gain more reliable information.

BULLION RECEIVED.—The Rochester Consolidated G. & S. M. Co. received, on the 9th instant, two hundred ounces of bullion, being the result of seventy pounds of their working ore. This speaks well for the Slate Range District.

DIVIDEND.—The Pride of the West Mining Co. have declared a dividend of $5 per share, which is payable on the 15th of this month.

OWENS RIVER CANAL CO.—It is a matter of much interest to the citizens, miners as well as ranchmen, of the Owens River country that the Owens River Canal Company succeeded, notwithstanding strong opposition, in securing the franchise which they asked of the late Legislature, for the privilege of clearing the upper waters of Owens River, of obstructions, so that logs might be run down that stream from the timber region above. The cost of doing such work will be heavy, and no company could afford to do it without some security for the use of their improvements. That security has now been granted, in the way of a franchise, and we presume the Company will take immediate and active steps to carry out their contemplated work, and proceed energetically with the construction of the canal, erection of a saw mill, etc. The unexpected influx of population into the mines and agricultural portions of that region during the present season, add greatly to the value of proposed improvements contemplated in the prospectus of the company, and ought to produce an important advance in their stock. This company now holds the key to the lumber trade of this beautiful valley, and the first right to water for canal purposes which must soon become of immense value.

PRESENTATION.—Mr. J. C. L. Wadsworth, late Secretary of the Gould & Curry Mining Company, has been presented with a handsome parting gift, consisting of a beautiful silver pitcher and salver, bearing the following inscription: "Presented by the Trustees of the Gould & Curry Silver Mining Company to their late Secretary, J. C. L. Wadsworth. S. F., April 13th, 1864." Mr. Wadsworth, while acting in the capacity of Secretary, rendered to the company many valuable services, and the Trustees thought this time the most appropriate for the presentation, on account of his departure for the East.

IMPROVING.—Mr. W. P. Denckla, President of the Pacific Board of Brokers, has been lying dangerously ill, at his residence, during the past week, with the typhoid fever. We are now happy to state that, at last accounts, he was improving, and we hope to have the pleasure of soon seeing his happy countenance upon our streets again. We feel assured that the members of his Board will give him a hearty welcome back to his old post.

CREDITABLE.—The loyal ladies of Gold Hill, N. T., are taking steps with the view of getting up an extensive festival for the Sanitary Fund. We hope that they will realize a large return for their worthy and very creditable undertaking.

BOISE.—The gold-seekers do not seem to rush off in such an exciting way as they did a few weeks ago for the Boise mines. Keep cool, gentlemen, and think well before you act.

ANOTHER DIVIDEND.—The Maxwell Creek G. and S. M. Company have declared a dividend of $1 per share, which was made payable on the 15th inst.

ANTELOPE MILL.—This mill is now running night and day, and is said to work beautifully. It is considered one of the finest mills in Esmeralda.

NORTH AMERICAN is anything but firmly held by those who pretend to know what is going on. We know of one party who "went out" on the afternoon of the 12th, having sold over 250 shares at figures ranging from $132 to $135 per share.

REAL DEL MONTE.—A telegraphic despatch was received by the company, on the morning of the 13th, stating that they had shipped from the mine $15,000 in bullion. There is no change as to the condition of the mine, and things look favorable.

JOSEPHINE, Coso, is looking much better, in the way of price at all events. A large number of shares having been sold at from $3 to $5.

OWENS RIVER.—The reports from this place are of the most flattering description.

DESIRES TO PAY.—Mr. Hall McAllister brought, suit in the 4th District Court, a few days ago, against J. G. Shirts, Harriet Shirts and Potosi G. and S. Mining Co., to force them to at once interplead in the case, where he is defendant, and J. G. Shirts is plaintiff. (The case we spoke of in our last week's edition.) Mr. McAllister states that some time ago he became the holder of a check on Wells, Fargo & Co., for the sum of $5,000 and two certificates of stock, each ten shares of the capital stock of the Potosi Company, which he was to hand over to Mr. Shirts, upon his acting up to certain obligations, but Shirts failing to do so, thus the Potosi Mining Co. gave him notice, that if he rendered up the said property, that they would hold him personally responsible. McAllister therefore askes the Court to make all of the claimants come forward and interplead, so he can give up the stock and money to whom it correctly belongs.

UNJUST.—In looking over the columns of a weekly cotemporary, published in this city, our attention has been directed to an item as characteristic as unjust. It gives the name of a party, a dealer in stocks, who has had the misfortune to have his name placed upon the Black or Delinquent List of one of our city stock boards. We are all liable to encounter misfortunes—and if such should be our fate we naturally do not desire to have our name and private affairs "paraded" and advertised to the public. Would the paper in question like to have their business affairs made known to the public? We rather think not. Why then are they not sufficiently charitable to do unto others as they would wish to be done by. Nothing like being charitable, if the party be worthy of the same—for we are all liable at any time to get a tumble from the ladder of fortune.

SNOBBY OPINION. — We recently overheard the conversation of a "would be high toned" individual who by chance has accumulated a little more money than his exalted conceit will allow him to possess without its causing him to act the part of a buffoon. He remarked the following to a gentleman in our hearing at the entrance of one of our fashionable hotels. The subject was first upon stocks, then it came upon brokers, when the witty gentleman, lately from the East, remarked in a sarcastic manner "Oh! indeed, my boy! Broker means, no doubt, Broke, Broke, Broke—as much as to imply that no broker, in his opinion could be any thing but a broken down individual. We took a good survey of this large sized piece of pomposity, smiled to ourselves, and went on our way rejoicing that he was no acquaintance of ours.

HOP.—We had the pleasure of "tripping the light fantastic toe" at the Lick House, on the evening of the 11th inst. The social gathering was given in compliment to several ladies and gentlemen who took their departure for the East, on the steamer Golden City. We spent a most pleasant evening, and among the happy throng, we noticed that "feet" were remarkably well represented, embracing those of Gould & Curry, Potosi, Ophir, Imperial, Challar etc. We were quite envious of these lucky possessors of valuable feet, but consoled ourselves with the old adage that "there is a good day coming."

POWDER MANUFACTURING COMPANY.—The articles of incorporation of the Pacific Powder Mill Company were filed with the County Clerk, on the 13th inst. The location of the mill is to be upon Paper Mill creek, in Marin county. Capital stock, $30,000. The Trustees are N. H. Olds, A. H. Meyerpeter and D. B. Goode.

RETURNED.—Mr. J. S. Henning, Superintendent of the North American G. & S. M. Co., has returned to the city again, looking remarkably well, notwithstanding his late reported indisposition. The climate of this place always seems to agree with him. We admire his taste in selecting this city to recuperate.

Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

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AMERICAN AND FOREIGN PATENTS.—Letters Patent for Inventors can be secured in the United States and foreign countries through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past year.

FAVORABLE TO INVENTORS.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the MINING AND SCIENTIFIC PRESS, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

San Francisco:

Saturday Morning, April 16, 1864.

FOUR PAGES EXTRA.—Being determined not to allow our rapidly increasing advertising favors to encroach upon the amount of space usually occupied by reading matter in our columns, we are obliged to increase the present issue to TWENTY PAGES.

THE COMANCHE.—The work of unloading the sunken Aquilla is nearly completed, and in one week from to-day it is expected that every portion of our iron-clad Comanche will be placed in the ship-yard at the foot of Third street. Four days more will be required to raise her two 15-inch guns, and the balance of the shot and shell yet in the hold of the Aquilla. The sunken ship will be started from her bed on the bottom, by iron straps which will be fastened into her sides—at least the attempt to do so will be made. After she is thus started, chains can be got under her, by which she can be readily raised to the surface. Whether the Aquilla ever floats or not, is a matter of little interest to the public. Her precious cargo is now safe, beyond peradventure, and it is to be hoped that no unnecessary delay will be encountered in setting up and launching the Comanche.

METALLURGICAL WORKS INCORPORATED—REMOVAL. The Metallurgical Works, until recently known as the property of Kustel & Deetken, have passed into the hands of an incorporated company under the name and style of "The Deetken & Company's Metallurgical Works." This company carry on the business of amalgamating, smelting, chlorinating and assaying gold and silver ores on the premises belonging to said corporation, situated on the San Bruno road, in San Francisco county. The capital stock of the company is $30,000, divided into one hundred and fifty shares of $200 each. F. L. A. Pioche, B. Gattell and G. F. Deetken are named as Trustees.

GOOD CHOICE.—John B. Winters, Superintendent of the Whitman mine, Indian Springs District, has been elected President and Superintendent of the Yellow Jacket mine, Gold Hill, N. T. He is a very popular gentleman and a competent Superintendent.

NORTH STAR G. & S. M. Co.—This stock is now commanding good prices, and we have every reason to believe, from what we learn, that this will eventually prove as good a claim as there is in Reese River.

MINING SHARE MARKET.

The Mining Share Market for the past week, has manifested an unusual degree of activity, and has embraced a much wider range than heretofore. Yesterday's was the largest day's business on record of the San Francisco boards. It foots up at $915,888. The total business of the week reaches the very large aggregate of $1,952,534.

Gould & Curry has materially improved with increased business. We quote sales at from $4,521 to $4,575, closing firm at $4,550.

Ophir found buyers on Monday at $1,600 but dropped to $1,540 on Thursday.

Savage opened at $2,650, which figure it maintained until yesterday, when it dropped to $2,550 and $2500.

Uncle Sam has not sustained its closing figure of last week. Sellers were found yesterday at $900.

Daney shares have not been in much request. We quote sales of 248 shares from $100 to $105, closing at the former figure.

Chollar still continues quiet. It met with some improvement at yesterday's board, finding buyers at $350.

Potosi has still farther advanced, having found buyers at $1050.

North Potosi opened at 38½, and gradually advanced, with considerable business to $65 at last evening's board, closing firm at $61.

Central, No. 2, is in but little request; we notice a single transaction at $900, buyer 30.

Sacramento and Meredith has slightly improved, with increased business. It may be quoted firm at $50.

Burnside may be quoted at $11; Imperial has slightly declined, and may be quoted firm at $165. Adriatic at 8; Baltic was in request the first of the week at from 150@157½, closing at the former figure.

Pride of the West has been heard from at $87½; El Dorado is dull at $50, closing at 41; Empress at 25@35; Badjazette at 50; Melones at 40; Knickerbocker at 40; Crown Point Ravine at 6.

Burning Moscow has met with a slight improvement; opening the week at $85@90, it advanced, with small business, and closed at yesterday's board at 102.

Lady Bryan is again in large request; 3514 shares have changed hands during the week, at from $42@52, closing at 49. The latest reports from this mine will be found noted elsewhere in our present issue.

North American still continues active. It improved considerably before yesterday's board, touching $155 and closing quite firm at $147½; Nevada, (J. G.) may be quoted at $110; Justice at 110; Caledonia Tunnel at 22; Buckeye at 15@18; Central America at 13.

Lafayette has improved to 14; Baltimore American has gradualy advanced to 42@52, buyer 30; Harmon has been in considerable demand at from 24 to 35, buyer 30. Crocket has met with large sales at from $8@10½ the past week. Yellow Jacket has found buyers at $1075.

Real del Monte has been in less request, the past week, and closed firm at from $86@90. Telegraphic advices announce another lot of bullion ($15,000) from the mine, on its way to this city.

Josephine (Coso) is manifesting considerable activity; we note sales of 629 shares at from $3 to 6½. We quote Silver Hill at 7½; Wide West at at 23; Antelope at $200.

Reese River stocks have been in considerable request, the past week. We quote Amador at $75; North Star at 35; Red Jacket at 5.50; Rough and Ready at 70@90 and Lancaster at 10.

Of Owens River stocks we quote Fanny Rayne at $50; Leviathan 50 and St. Lawrence, (Inyo District) 75.

Table Mountain copper is in demand in consequence of favorable news from the mine. A few sales were made yesterday at $23@25, but holders generally are not inclined to sell at any price offering.

WASHOE STOCK MARKET.

The transactions in stocks since our last issue have been quite lively, a large number of feet having changed hands at fair prices. We compile the following report from the Virginia and Gold Hill papers up to Monday evening last:

Knickerbocker has taken a steady and apparently healthy rise—advancing from $22 to 40. Sales of 555 shares are noted.

Rock Island may be quoted at $26½; San Francisco at $3.

Arizona has found buyers at $11@12.

Keystone is quoted at $16; Keystone No. 2 at $4; No. 3 at $2½.

King Soloman has been in considerable demand at from $1½ to 4¼; closing at the latter figure.

Jewett & Shepard, which reached $55 two weeks since, has receded somewhat—closing on Monday last at $40, buyer 30 days; 783 shares have changed hands since our last report.

Pride of America advanced last week from $6¼ to 14 on Friday; since which date it has dropped to $9 and 10, closing on Monday at the last figure. We note sales of 545 shares.

We quote Bullion at $100; Baltimore American at $45@49; Branch Mint at $19.

For Baltic $160 has been refused; Alpha has been in demand at $600; Original Hawkeye advanced from $62½ to 115; bidding subsequently fell to $70, with holders at $140.

Rock Island has fluctuated from $20 to 35, closing at 26½.

Yellow Jacket has been in request at $1,175, with holders at 1,500.

Uncle Sam (Flowery) may be quoted at $4¼; Arrington at $8; White & Saunders at $6; Nightingale at $30; William Penn at $15½; Rock Rose $21½; and Whitman has sold for $41.

Justice has again been heard from at from $110 to 120; Caledonia Tunnel has been in demand at $22, without sellers

Effingham rallied during the past week from $1½ to 4, with sales of 355 shares since our last issue; closing at 3½.

We quote Wisconsin Con., $1½; San Francisco, (G. H.) $3; Belle Vernon, $5; Palo Alto. $4; Kentucky, $5½; Joe Jackson, $10@15; Clinton & Hobbs, $26; Bajazette, $48; Pony Express, $12; Cole, $6½; St. Charles, $2½.

Arizona is steady at $11(@12; Combined Effort has sold for $9; Central America, bidder refused at $4; 20 shares Consolidated Co. sold at $60.

Colorado has improved from $6½ to 8½—45 shares sold; Contraband advanced from $1½ to 3¾, with demand; Crescent is quoted at $7; Diligent at $5; Don Carlos, $3½.

Twenty shares Eureka sold at $15@22½; 30 of Empire at $30; Genty sold at $4½; Globe at $15; Grand Turk at $30; Harold & Argo steady at $11 @13.

Frankell has advanced from $8 to 13, with sales of 140 shares; Globe is quoted at $15; Independent in demand at $50 to 57, without sellers; Northern Light has sold for $12; New Oregon has sold for $13@18, closing at $15½—109 shares changing hands.

Narragansett has met with large sales, 391 shares have changed hands from $3 to 5½—closing at $3¼; Napoleon has sold from $6 to 13, closing firm at the latter figure; 310 shares changed hands; Nevada closed at $15.

Richlieu advanced from $6 to 20, but subsequently declined to $8; 381 shares have changed hands; Overman has sold at $22½; Silver Vale at $9; South Midas, $17½; Sheel at $13, closing at $10.

Toutine has met with large sales from $12 to 20, closing at $18; 375 feet have changed hands; Teutonia has sold at $15; Vulcan at $6½; White & Saunders at $4¼.

SUIT AGAINST THE BURNING MOSCOW.—The suit was brought against this company by W. A. Cornwall to compel them to issue to him 200 shares of the capital stock. The case came up for trial in the 12th District Court, on the 14th inst., Delinquent moved to dismiss cause on the pleading. Case submitted.

PACIFIC GLASS WORKS.—At the stockholders' meeting, held on the 11th inst., the following gentlemen were elected: President, John Taylor; Vice President, Charles Kohler; Trustees, John Taylor, Charles Kohler, Henry Haussman, George Gilmore and Robert Turner.

MINING SECRETARIES, it will be observed, are taking advantage of our reasonable rates by adverting in the PRESS, under the new law.

AN IMPROVED STEAM VALVE.—Our nttention was called a few dnys since to a steam eagine nt work at the Atlas Iron Works, in this city. Tho peculiarity in regard to this engino consists in tho constructiou of the vnlve by which steam is admitted into the cylinder. This valve is n rotating one, possessing important advantages over hoth tho slido nud spring valve. The "wiro-drnwing" nf the former, and the percussion always nttendant npon the latter, is completely obviated by this improvement. All the ndvantnges of tho slide valve nre more than secured, without any of its disadvantages. By the peculiar arrangement of this rotary valvo, steam may be worked expansively, without any additional fixtures, the end being accomplished by a slight variatioa the construction of the vnlve itself. In the working nf this engine the steam is expanded to n point below tho pressuro of the atmosphere *before the stroke is completed*, as is easily shown by the rush of air into tho cylinder through the water cock, whcn opencd for the purpose of observation. This improvement is tho invention of Mr. Scott, one of the proprietors, nnd has been pntented. It is well worth tho nttention of machinists and mill men generally. It may be seen in constant operation at 24 and 26 Fremont street, in this city. See advertisement in another column.

NEW ERA COPPER MINING CO.—We are pleased to learn from the Secretary of the nbove Company, better known to the public as the Illinois, Dou Pedro's Bar, Toulumne river, have struck some very rich copper ore at 125 deep. It appears there are two veins, five feet wide, dipping towards each other, and iacreasiug in richness as they converge. A large, splendid specimen of native copper, containing also considerable native silver from one vein, and of good sulphuret ore from the other, have been shown us by Mr. Barry, the secretary. It may be remembered by many of our readers, that this claim was condemned by an expert sent to examine it. by one portion of the trustees. Our travelling correspondent, who visited the claim shortly afterwards, however, on examination formed a different opinion; aad, besides his favorable report sent to our paper, scnt another by request to the board, in which he predicted copper would be struck at 125 feet. The prediction, it seems, is verified at the exact distance, and, as the shaft was only then 80 feet, we gladly record the fact as aa evidence of correct judgmeut.

THE LECTURE ON MINING, by Professor Price, on Wednesday evening last, at Dashaway Hall, was well attended, and was listened to with much attention and interest. The Professor opened with a few general remarks on the occurrence and character of mineral lodes and their contained metals, confining his remarks chiefly to lodes carrying the precious metals, and closing with some practical remarks on the chemistry of metals. The lecture was illustrated and enlivened by a few illustrative experiments, showing the nature and propertics of certain gasses met with in mines, or occasionally employed in metallurgy. We understand that the Board of Education propose to engraft metallurgy, mineralogy, and nssnying into the course of studies of the pupils at the Boys' High School in this city. The proposition is a most excellent one, nnd should most certainly be carried out.

LADY BRYAN.—Quite a large number of shares have changed hands during the week, although not held so firmly as a favorite stock by the brokers as heretofore. The company received their first communication from their new superintendent, Mr. N. A. Chandler, on the 14th inst. He has exnmined the mine and finds a difficulty in taking out much orc at present; the works are too contracted and he will be obliged to extend the drifts considerably to avoid timbering and unaecessary expense. The drifts are alrcady started and he will "drive on" before taking out ore. He also intends to push the work on the lower tunnel as fast ns possible, as the ground has improved very much in that locality.

VALUABLE SUGGESTIONS.

The following suggestions, which wo clip from Professor Silliman's late Report on the Gold Mines of Nova Scotia, aro equally valuable in this latitude. They should be embodied in the general instructions to every mining superintendent.

The success of the most vuluuble mining property may be blasted by the adoption of n mistaken principle of management. The desire for early returns to stockholders often leads to a shortsighted system of hand-to-mouth admiaistration, the result of which is uniformly fntal. The mine is robbed to secure a specious show of dividends, and then follows an unproductive period, in which the manager finds an empty treasury and no power of new calls on the owners, or a reluctant response, ending soon in the nbandonment of the enterprise. Such is sure to be the case whenever works of exploration arc suspended. The process of extraction is easy and rapid. The remorseless jaws of the crusher devour daily, it may be ten, twenty, fifty tons of ore, and, much sooner than he expects, the manager finds himself without stoping ground, and nothing before him but dreary months of sinking shafts and driviag levels, in which, but a limited force can be employed. The organization of the mine is demoralized; the expenses of administration and of the plant continues undiminished; the mill rests idly for want of ore, while the labor of exploring is being prosecuted. Every one who has had any familiarity with the history of mining, in America especially, will admit the truth of this picture. The cure is simple nnd unfailiug. *The work of exploration must never stop, and must be always in advance of the work of extraction.*

Another important consideration besides those nlready named urges the adoption of this policy. It is unreasonable to expect that any of the veins on your property, will prove equally remunerative in all parts. There will be some places too poor to pay for working, or the veins may be pinched off to a narrow thread, enlarging again to perhaps more thau average size nt no great distance. These inequalities are of little importance, and by no means causes of discouragcmcnt, if they are known to exist in advance. But, suppose the policy of temporizing to prevail, and such a condition as the last named to occur, discouragcmeut would be unavoidable. Moreover, supposiag the worst case possible, namely, the actual loss of the vein in depth, either by a fault or a heave, or by actual dwindling to nothing—if the explorations arc well in advance of extraction, the manager sees at once the danger before him, and, with prudent energy, commences timely rcsearches on another vein, or in a new part of the old oue, and thus disaster is averted.

GOLD FROM SULPHURETS.—The editor of the Nevada *Gazette* has seen a bar of gold, valued at $1,400, taken from sulphurets by Oscar Maltman, at his mill, nenr Nevada City.

CONTENTS FOR MARCH.

No. 10—MARCH 5.—Communication—"Pocket Veins;" Hints to Prospectors; Sierra District—Humboldt county—Description of a Representative Mine; Slang of the Stock Exchange; On the Loss of Gold Attending the Process of Amalgamation; Product of Petroleum; Wide West Mining Company; The Term Reese River; Mining Gossip; Washoe Stock Market; Mining News and Items; Our Mechanical Interests; Unwise Recommendation; Coal Creek Coal Company; Patent Department—McCauley's Steam Condenser, M. D. Garrard's Amalgamator, A California Invention, Etc.; A Mining School for San Francisco; A Formation of Black Oxide with a Supposed Decomposition of Nitre; The Drought and Gold Crop; San Diego Copper; Decidedly Arbitrary; Mining Share Market; New Incorporations; The Northern Gold Fields; Stock Market Reports; "Chippings;" Etc.

No. 11—MARCH 12.—Earthquakes—Their Causes and Effects; Ventilation of Mines; Communications—The Great Desert and Its Mines, No. 2; San Luis Obispo; Virginia City—Her Mines, Growth and Future Prospects; Jordan Creek; Churchill Mines; About Cloves; Mechanical Department—Railroad Switches and Signals, Steam and Electro-Magnetic Power, Steel Boilers; Remarkable Instance; Patent Department—Improvement on the Arastra, New Amalgamator; Mining Gossip; Reese River—A Comparative Review of Various Districts; The Mining Share Market; Editorials; Incorporations; Full Reports for the week of the San Francisco Stock Market; Washoe Stock Report; Chippings; Etc.

No. 12—MARCH 19.—Farrand's Amalgamator—Illustrated; Important Developments; Copper as an Investment; What Science Saves in Mining; Treatment of Gold Ores and Sulphurets; Treatment of Silver Ores; Washoe Mining Items; Mechanical Department; Mining Gossip; Patent Department; A Remarkable Indian Tradition; Mining Share Market; San Francisco and Washoe Stock Reports; "Chippings;" Etc.

No. 13—MARCH 26.—Physical Growth of San Francisco; Guiavera and Tuolumne Copper Mines; Owens River Correspondence; The Baker Copper Company; Nevada County Correspondence; An Immense Casting; Extraordinary Power of Resisting Heat; The Other Side; Patent Department; A New Separator; Washoe Stock Markets; Full Report of San Francisco Stock Boards; Mining Gossip; Death of Mr. John Young; Items of Mining News; Record of New Incorporations; Miscellaneous Editorials and Mining Notices.

No. 14—APRIL 2.—Physical Growth of San Francisco; Owensville Correspondence; Mill Valley; Copperopolis Correspondence; The Gold Hill Mines, Washoe; Crude Bullion; Reese River Correspondence; Keith's Desulphurizing Process; Copper in an Iron Mine near Marquette; British and American Copper Mines; The Vassar Female College; The Colorado Mines; Mining Gossip; Mining Share Remarks; Stock Reports; Washoe Stock Sales; Incorporations; Chippings and Items.

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Will be conducted with ability, in a liberal and reliable manner sparing not in expense, veneration for honesty, or respect for common sense.

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Friends pleased with our efforts in the publication of the PRESS can render us essential aid by furnishing correspondence and all important information which may come under their observation, and by calling the attention of their neighbors to the commendable features of the paper; the appreciation of which favors will be duly manifested by the constant improvement of our journal.

DEWEY & CO., Publishers.

OFFICE in Government House, Nos. 56 and 57, corner of Washington and Sansome streets, San Francisco.

C. W. M. SMITH.....W. B. EWER.....A. T. DEWEY.

It is Impossible for editors to know ALL the merits and demerits of their correspondence, consequently the reader must not receive the opinions of our contributors as our own. Intelligent discussion is invited upon all sides, and the evidence of any error upon our part will be received in friendship, and treated with respect.

Mining Notices.

Ida Gold and Silver Mining Company, Russ District, Tulare county, California.—Notice is hereby given, that on SATURDAY, May 14th, 1864, at noon, there will be sold, at Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, a sufficient number of shares in the capital stock of the Ida Gold and Silver Mining Company, standing in the names of the following persons, to pay the Assessment (No. 6) of one dollar per share, levied December 2, 1863, and the Assessment (No. 7) of two dollars per share, levied March 2, 1864, together with the expenses of advertising and sale, unless the same shall have been previously paid—viz:

Names.	Certificates.	Shares.	Am't.
Allen, R. K.	411	10	$20
Allanus, Blanche E.	334	2	4
Bradley, Mrs. E. P.	161	2	4
Baldwin, Mrs. Lucinda	269	3	6
Braly, M. A.	299	12	24
Bellows, Horace	545	4	12
Browning, Jacob	291	5	10
Burke, M. J.	150	1	2
Carter, James T.	449	3	6
Cooke, Thomas	402	5	10
Dannenberg, Joseph	244	5	10
Davis, Henry L.	339	5	10
Davis William	440	20	40
Frei, Andrew	382	5	10
Frei, Andrew	462	2	4
Gray, Wm. J.	330	5	10
Gray, Wm. J.	431	14	28
Gray, Wm. J.	435	1	2
Gregg, Stephen	493	10	30
Green, R.	198	20	40
Green, R.	284	20	40
Greenwood, M.	208	3	6
Hafner, John	64	100	200
Haley, John J.	373	20	40
Hadler, Claus	508	5	10
Hermann, Charles	267	11	22
Hermann, Charles	287	5	10
Hermann, Charles	296	5	10
Hermann, Charles	466	14	28
Hermann, Charles	468	10	20
Hemenway, H. C.	459	6	12
Heath, James	319	2	4
Heath, James	499	12	24
Heath, James	539	6	12
Hearn, John	399	10	20
Hitchings, Miss L.F.	430	2	4
Hodge, B. O.	6	5	15
Hodge, B. O.	7	5	15
Hodge, B. O.	8	5	15
Hodge, B. O.	187	5	15
Hodge, B. O.	242	2	6
Hoadley, Silas	364	4	8
Hopkins, M.	575	9	27
Ida Mill Mining Co.	554	8	24
Johnson, P. R.	577	3	6
Kellogg, James	223	10	20
Kellogg, James	235	8	16
Kellogg, James	278	18	36
Kellogg, James	437	50	100
Lewis, R. P.	374	2	6
Longley, J. P.	334	4	8
Lovejoy, E. B.	209	3	9
Lyles, T. W.	208	25	50
Matthews, Oscar L.	548	5	15
Matthews, Oscar L.	550	5	15
Mackenzie, Andrew	263	5	10
Mackenzie, Andrew	284	5	10
Mackenzie, Andrew	285	5	10
McInerney, Thomas	147	5	10
Miller, Leopold	171	5	10
Miller, Leopold	329	5	10
Miller, Leopold	367	5	10
Miller, Leopold	404	5	10
Miller, Leopold	405	2	4
Miller, Leopold	436	2	4
Miller, Leopold	476	8	16
Monthrop, J. L.	474	10	20
Pratt, W. P.	155	8	16
Pratt, W. P.	428	10	20
Pratt, W. P.	429	8	16
Rand, D. H.	538	6	12
Rowland & Walker	235	3	6
Roll, John	172	5	15
Roll, John	337	5	15
Roll, John	470	10	20
Schleicher, Jacob	387	5	10
Schleicher, Jacob	388	5	10
Schench, Hugo	245	5	10
Sperry, James A.	525	25	50
Sperry, James A.	5 6	10	20
Sperry, James A.	5 7	12	24
Silverthorn, W. H.	78	4	8
Silverthorn, W. H.	140	3	6
Swigert, Adam	253	2	4
Schmolz, William	206	10	20
Schmolz, Adolphus	254	5	10
Short, David M.	148	3	6
Short, Mrs. Emily	241	2	4
Scudder, Francis V.	485	5	10
Scudder, Francis V.	517	5	10
Taylor, John	578	2	5
Tabor & Hill	444	15	30
Tabor & Hill	445	10	20
Tabor & Hill	536	2	4
Trenkle, Emil	286	10	20
Trenkle, Emil	295	10	20
Wallack, D.	77	5	10
Walters, G. F.	546	5	10
Wheeler, Zenas	127	4	8
Whitney, J. P.	443	20	40
Wittram, Charles	210	20	40
Whitson, B. F.	487	25	50
Wood, Joseph	207	7	14
Wood, Joseph	376	2	4
Wuthrich, John	370	40	80
Wynkoop, George C.	53	8	16
Yeates, John L.	49	2	6

By order of the Board of Trustees.

DAVID WILDER, Secretary,
16-4t No. 240 Montgomery street, San Francisco.

Gold Point Gold and Silver Mining Company, Big Creek Mining District, Lander county, Nevada Territory, Office Nos. 1 and 2 Government House, corner Washington and Sansome streets, San Francisco.—Notice is hereby given, that, in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the Gold Point Gold and Silver Mining Company, there will be sold at Public Auction, at the office of the Company, at 11 o'clock A. M., on SATURDAY, the 30th day of April, 1864, so many delinquent shares of the capital stock of the Gold Point Gold and Silver Mining Company, standing in the names of the following persons, as will be necessary for the payment of Assessment No. 1, for twenty cents per share, levied August 21st, 1863, and Assessment No. 2, for thirty cents per share, levied December 1st, 1863, together with costs of advertising and expenses of sale, unless said assessments and charges are previously paid to the Secretary, at the office of the Company:

Names.	Shares.	Asst. No. 1—20c.	Asst. No. 2—30c
Brodhead, W. H.	200	$40 00	$60 00
Grotjan, G. W.	1	20	30
Marshall, Chas.	300	40 00	60 00
Parsons, S. H.	200		60 00
Turner, Geo. R.	9	1 80	2 70
Uhrig, C. A.	2	40	60
White, F. A.	200		60 00

S. C. GALLAHER, Secretary,
Office Nos. 1 and 2 Government House.
San Francisco, March 25th, 1864. 13-5t

Monarch Gold and Silver Mining Company, Big Creek Mining District, Lander county, N. T., Office No. 1 and 2 Government House, corner Washington and Sansome streets, San Francisco.—Notice is hereby given, that, in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the Monarch Gold and Silver Mining Company, there will be sold at Public Auction, at the office of the Company, at 11 o'clock A. M., on SATURDAY, the 30th day of April, 1864, so many delinquent shares of the capital stock of the Monarch Gold and Silver Mining Company, standing in the names of the following persons, as will be necessary for the payment of Assessment No. 1, levied August 21st, 1863, of twenty cents per share, and Assessment No. 2, levied January 21st, 1864, of fifty cents per share, together with costs of advertising and expenses of sale, unless said assessments and charges are previously paid to the Secretary, at the office of the Company:

Names.	No. of Shares.	Asst. No. 1—20c.	Asst. No. 2—50c
Brown, Geo. W.	65		$32 50
Brown, D.	85		42 50
Davis, C.	85		42 50
Fisher, S. G.	60		30 00
Orotjan, G. W.	4		2 00
Haddock, R. W.	85		42 50
Irvine, John	50		25 00
Kasson, C. S.	4		2 00
Nahl, H. W. A.	4		2 00
Parsons, S. H.	50		25 00
Phelps, T. G.	4		2 00
Palmer, E. C.	4		2 00
Thompson, J. L.	85	$17 00	42 50
Turner, Geo. R.	8		4 00
Uhrig, C. A.	8		4 00

S. C. GALLAHER, Secretary,
Office Nos. 1 and 2 Government House.
San Francisco, March 25, 1864. 13v8-5t

Plutus Gold & Silver Mining Company, Reese River Mining District, Lander county, N. T., office 1 and 2 Government House, northwest corner of Sansome and Washington streets, San Francisco.—Notice is hereby given, that, in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the Plutus Gold and Silver Mining Company, there will be sold at Public Auction, at the office of the Company, at eleven o'clock A. M., of SATURDAY, April 30, 1864, so many delinquent shares of the capital stock of the Plutus Gold and Silver Mining Company, standing in the name of the following persons, as will be necessary for the payment of Assessment No. 1, for thirty cents (30c) per share, levied August 21st, 1863; also Assessment No. 2, for seventy-five cents (75c) per share, levied November 23d, 1863; and Assessment No. 3, for fifty cents (50c) per share, levied January 26th, 1864, together with costs of advertising and expenses of sale, unless said assessments and charges are previously paid to the Secretary, at the office of the Company:

Names.	No. of Shares.	Asst. No. 1-30c	Asst. No. 2-75c.	Asst No. 3-50c.	Total am't
Atherton, A. P.	50	$15 00	$37 50	$25 00	$77 50
Allison, John	20			10 00	10 00
Bateman, I. C.	85		63 75	42 50	106 25
Boicy, A. G.	10			5 00	5 00
Cloveland, Frank	150		112 50	75 00	187 50
Craig, R. R.	20			10 00	10 00
Harding, R. R.	50	15 00	37 50	25 00	77 50
Irvine, John	85	25 50	63 75	42 50	131 75
McComb, Wm.	85			42 50	42 50
Thompson, D. H.	150		71 25	57 50	138 75
Turner, Geo. R.	7	2 10	5 25	3 50	10 85
Wills, John M.	20			10 00	10 00
Woods, Phœbe A.	25			12 50	12 50

S. C. GALLAHER, Secretary.
No. 1 and 2 Government House, San Francisco.
San Francisco, March 25th, 1864. 13-5t

McComb Gold & Silver Mining Company, Reese River District, Lander County, Nevada Territory, Office No. 1 & 2 Government House, corner of Washington & Sansome Sts., San Francisco.—Notice is hereby given that in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the McComb G. & S. M. Co., there will be sold at public auction at the Office of the Company, at 11 o'clock A. M. on Saturday, the 30th day of April 1864, so many delinquent shares of the Capital Stock of the McComb G. & S. M. Co., standing in the names of the following persons as will be necessary for the payment of assessment No. 1 of 50 cents per share, levied Nov. 28, 1863, together with costs of advertisement and expenses of sale, unless said assessment and charges are previously paid to the Secretary at the Office of the Company.

NAMES.	SHARES.	ASS'T.	AMOUNT.
Askins, T. J.	65	$32.50	$32.50
Eaton, Ira A.	45	22.50	22.50
McComb, Robt.	90	45.00	45.00
Moloney, Jos. E.	62	31.00	31.00
Marshall, Chas.	49½	24.75	24.75
Rowe, John	4½	2.25	2.25

No. 1 & 2 Cov't House. HENRY S. BROOKS, Sec'y.
San Francisco, March 25th, 1864. 13-5t

Bodie Consolidation Gold and Silver Mining Company, No. 2.—Office, southwest corner of Clay and Montgomery streets, San Francisco.—Notice is hereby given, that in accordance with an order made on the 4th instant, by the Board of Trustees of the Bodie Consolidation Gold and Silver Mining Company, No. 2, there will be sold at public auction, by Jerome Rice & Co., at their salesroom, No. 327 Montgomery street, San Francisco, on WEDNESDAY, the 27th day of April, A. D. 1864, at 11 o'clock A. M., a sufficient number of shares of the capital stock of said Company, standing in the names of the following persons, as may be necessary to pay the assessment levied January 14th, 1864, together with the expense of advertising and sale, unless said assessment and charges are previously paid:

		SHRS.	ASS'T DUE.
William Ayres, Sr.	Cert. 482, 483, 484, 485, 486. Shrs. 10, 10, 10, 10, 10.	50	$25 00
Miles Chapiu	Cert, 129, 130, 312, 313. Shrs. 15, 10, 10, 10.	45	22 50
G. S. Chapin	Cert. 305, 306. Shrs. 25, 25.	50	25 00
A. L. Chamberlin	Cert. 358.	25	12 50
L. H. Dearborn	Cert. 509.	24	12 00
Thomas Gardner	Cert. 288.	20	10 00
James Lang	Cert. 518.	15	7 50
Jas. F. McFarlane	Cert. 116, 118, 121, 122, 124, 126. Shrs. 50, 10, 10, 10, 10, 10.	100	50 00
M. S. Martin	Cert. 380.	250	125 00
L. W. Newell	Cert. 435, 436, 451, 452. Shrs. 25, 15, 15, 10.	65	32 50
Jonathan Peel	Cert. 542, 543, 544. Shrs. 50, 50, 25.	125	62 50
Edward Rondel	Cert. 412, 413. Shrs. 7, 5.	12	6 00
W. D. Robinson	Cert. 508.	25	12 50
C. H. Stoutenborough	Cert. 364.	20	10 00
Jesse D. Spray	Cert. 515.	25	12 50
Edward Donahue	Cert. 512, 514. Shrs. 25, 25.	50	25

By order of the Board of Trustees.
A. L. CHAMBERLIN, Secretary.
San Francisco, March 12, 1864. 12v8-6t

Mr. Jarvis Jewett is our duly authorized advertising agent and collector in this city.

Enterprise Gold and Silver Mining Company. Location, El Dorado Canon, Arizona Territory.—Notice is hereby given, that, in accordance with the laws of the State of California, and in pursuance of an order made by the Board of Trustees of the Enterprise Gold and Silver Mining Company, at a meeting held March 23d, A. D. 1864, a sufficient number of shares of the capital stock of said Company, standing in the name of the following persons, will be sold at Public Auction, to the highest bidder for cash, in U. S. gold coin, at the office of the Company, No. 622 Washington street, San Francisco, on THURSDAY, the 28th day of April, A. D 1864, at 2 o'clock P. M., as will pay Assessment No. 1 and 2, of amount and date as stated below, due and delinquent thereon, together with all costs accruing from advertising, sale, etc., if not previously paid—to wit:

Assessment No. 1, of fifty (50) cents per share, levied Sept. 7, 1864.

Names.	No. Shares.	Amt.
J. H. Williams.	250	$125 00
A. M. Bennett	45	22 50
M. D. Fairchild	50	25 00
S. L. DeLano	10	5 00
C. A. James	33	16 50
Robert Keir	75	37 50
Alexander Kehr	75	37 50
William Wesenchraft	75	37 50
C. W. Young	2	1 00

Assessment No. 2, of fifty (50) cents per share, levied Feb. 8, 1864.

A. M. Bennett	47	23 50
Thomas Brown	5	2 50
J. P. Clark	20	10 00
Joseph Coulter	10	5 00
S. L. DeLano	10	5 00
Columbia Dyer	5	2 50
M. D. Fairchild	35	17 50
C. Flink	5	2 50
Jacob Hreen	5	2 50
August Hess	5	2 50
C. A. James	40	20 00
O. E. Johnson	25	12 50
Abraham Jones	10	5 00
Robert Keir	75	37 50
Alexander Keir	75	37 50
John Miller	100	50 00
J. F. Ridler	5	2 50
T. H. Williams	255	127 50
William Wesenchraft	75	37 50
C. W. Young	5	2 50
F. A. Bruch	10	5 00

By order of the Board of Trustees.
L. B. WOOSTER, Secretary,
13-4t Office 622 Washington street, Room 13, S. F.

Potomac Gold and Silver Mining Company, Reese River Mining District, Lander county, N. T.—Office 509 Clay street San Francisco.—Notice is hereby given, that, in accordance with the laws of the State of California and an order duly made by the Board of Trustees of the Potomac Gold and Silver Mining Company, there will be sold at Public Auction, at the salesroom of Jno. Middleton & Son, at 12 o'clock, noon, of MONDAY, the 2d day of May, A. D. 1864, so many shares of the capital stock of said Company, standing in the names of the following persons on its books, as may be necessary for the payment of Assessment No. 1, duly levied thereon August 24, 1863, and Assessment No. 2, duly levied thereon January 25, 1864—each assessment twenty-five (25) cents—together with the cost of advertisement and sale, unless the said assessments are previously paid, with costs accrued:

Names.	Asst. No.	Cert.	Shares.	Amt.
A. Faust	1 2	16	5	$ 2 50
Robert Lewy	1 2	8	100	50 00
do	1 2	20	25	12 50
Leslie Bayley	1 2	31	5	2 50
R. Lewy	2	37	100	25 00
do	2	38	160	40 00
C. W. Roberts	2	22	25	6 25
J. H. Hardy	2	25	50	12 50
do	2	26	20	5 00
do	2	27	20	5 00
do	2	28	10	2 50

GEO. A. BALL, Secretary.
San Francisco, April 2, 1864. 14-4t

Cloverdale Mining Company, Sonoma County, California—Office, 430 Montgomery street, San Francisco.—Notice is hereby given, that in accordance with the laws of the State of California, the by-laws of the Company, and an order duly made by the Board of Trustees of the Cloverdale Mining Company, on the 31st of March, 1864, there will be sold at Public Auction, to the highest bidder for cash, in United States gold coin, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on WEDNESDAY, the 4th day of May, 1864, at 11 o'clock A. M., so many shares of the capital stock of said company, standing in the names of the following persons, as will be necessary for the payment of all delinquent assessments thereon, together with the expense of advertising and sale, unless the same are previously paid:

Names.	No. Asst.	No. Cert.	No. Shs.	Am't
T. T. Bradshaw	3	—	40	$10 00
H. Ellis	3	139	10	2 50
H. Ellis	3	140	10	2 50
H. Ellis	3	141	10	2 50
H. Ellis	3	143	10	2 50
J. W. Henderson	3	77	5	1 25
J. J. Haley	3	—	100	25 00
M. Worner	2 and 3		10	5 00
J. H. Whitman	2 and 3		4	2 00
— Mellon	3	144	2	50

M. WINN, Secretary.
15-4t

NOTICE.

Notice is hereby given, that, in accordance with the laws of the State of California, and the by-laws of the Revere Gold and Silver Mining Company, there will be sold at Public Auction, at the salesroom of Jerome Rice & Co., 327 Montgomery street, in the city and county of San Francisco, California, on WEDNESDAY, the 27th day of April, 1864, at 11 o'clock A. M. of said day, so many shares of the capital stock of the Company standing in the names of the following persons as will pay the assessments now due, together with cost of advertising and sale.

John W. Clark	41 shares.	$10 25
Henry Bourne	205 "	51 25
Henry Siede	5 "	1 25
Wm. B. Hull	5 "	1 25
C. F. Lincoln	100 "	25 00
Martin Durfee	100 "	25 00
	456 shares.	$114 00

By order of the Board of Trustees. H. C. KIBBE, Sec'y.
15-4t

Great Western Gold & Silver Mining Company, Keyes District.—Notice is hereby given, that by a resolution adopted by the Board of Trustees of the Great Western Gold & Silver Mining Company, at a meeting held on the 17th day of November 1863, an assessment of sixty-five cents was levied upon every share of the Capital Stock of said Company to be paid immediately in U. S. Gold Coin, to the Secretary, at the Office of the Company, No. 27 Government House, corner Washington and Sansome Sts.

Also, an assessment of twenty-five cents per share, on each and every share, levied on March the 17th, 1864, to be paid immediately, in U. S. Gold Coin, to the Secretary at his Office.

C. A. CRANE, Sec'y.
San Francisco, March 19th, 1864. 13-5t

Burgess Silver Mining, Company Reese River District, Nevada Territory.

Belle Creole Silver Mining Company, Reese River District, Nevada Territory.

Olive Branch Silver Mining Company, Reese River District, Nevada Territory.

Swift Silver Mining Company, Reese River District, Nevada Territory.

Paul Silver Mining Company, Reese River District, Nevada Territory.

Notice is hereby given, that in accordance with the laws of the State of California, and in pursuance of orders made by the respective Boards of Trustees of the above named Companies, at meetings held on the 1st day of April, A. D. 1864, a sufficient number of shares of the capital stock of each of the above named Companies standing in the names of the following persons will be sold at Public Auction, to the highest bidder, at the office of those Companies, No. 224 Montgomery street, San Francisco, on the fifth day of May, A. D. 1864, at 11 o'clock A. M., as will pay Assessment No. 1, of each of them, of twenty-five cents, all levied on the 23d of November, A. D. 1863, and Assessment No. 2, of each of them, of one dollar all levied on the 26th day of February, A. D. 1864, due and delinquent thereon, together with all costs accruing from advertising, sale etc, if not previously paid:

BURGESS COMPANY.

Name.	No. Certs.	No. Shares.	Asst. No. 1.	Asst. No. 2.	Total
Sarah A. Bull	4	25		$25 00	$25 00
S. H. Pierce	5	10	2 50	10 00	12 50
George Swift	2 and 3	15	3 75	15 00	18 75
H. Burgess	12	173	43 25	173 00	216 25
F. B. Dole	22	187		187 00	187 00
Eug. Cazalis	20 and 21	75		75 00	75 00
Belinda Fowler	1	10	2 50	10 00	12 50
J. F. Michel	7	10	2 50	10 00	12 50

SWIFT COMPANY.

George Swift	3, 4 and 33	No. 1—81 / No. 2—31	20 25	31 00	51 25
James Fitton	32	86	21 50	86 00	107 50
H. Burgess	31	86	21 50	86 00	107 50
C. D. Caven	7	23	5 75	23 00	28 75
Robert E. Lowery	22, 23, 24, 25	No. 1—6 / No. 2—86	1 50	86 00	87 50
John Croyland	26, 27, 28, 29	43	10 75	43 00	53 75
Belinda Fowler	1	10		10 00	10 00
G. H. Kellogg	6	10		10 00	10 00
J. F. Michel	8	10		10 00	10 00
Chas. McConnell	2	10		10 00	10 00
W. W. Tinker	5	10		10 00	10 00
E. Ernest	9, 10, 11, 12, 13 / 14, 15, 16, 17, 18	86		86 00	86 00
D. Decth	30	5		5 00	5 00

BELLE CREOLE COMPANY.

R. E. Lowery	13, 14, 15, 16, 17 / 18, 19, 20, 21	161		161 25	161 25
Chas. D. Caven	8	84	21 00	84 00	105 00
John Croyland	22, 23, 24, 25	175	43 75	175 00	218 75
S. A. Murdock	28	175	43 75	175 00	218 75
T. O. Jackson	29	88	22 00	88 00	110 00
Geo. Swift	3, 4 and 27	No. 1—82 / No. 2—47	20 50	47 00	67 50
Sarah A. Bull	5	25		25 00	25 00
Octavia W. Pray	1	5		5 00	5 00
J. N. Traverse	2	10		10 00	10 00
C. W. Kellogg	6	10		10 00	10 00
J. F. Michel	9	10		10 00	10 00
D. Decth	26	5		5 00	5 00

OLIVE BRANCH COMPANY.

Chas. D. Caven	9	83	20 75	83 00	103 75
Robert E. Lowery	14, 15, 16, 17	No. 1—65 / No. 2—83	16 25	85 00	101 25
J. P. Tiernan	20	83	21 25	85 00	106 25
S. A. Murdock	21	85	21 25	85 00	106 25
George Swift	4, 5 and 19	No. 1—80 / No. 2—30	20 00	30 00	50 00
C. E. Blake	1	10		10 00	10 00
Chas. McConnell	2	10		10 00	10 00
W. W. Tinker	3	10		10 00	10 00
Chas. McHenry	7	10		10 00	10 00
Sarah A. Bull	6	25		25 00	25 00
J. F. Michel	10	10		10 00	10 00
D. Decth	18	5		5 00	5 00

PAUL COMPANY.

John Croyland	12, 13, 14, 15	174	43 50	174 00	217 50
S. A. Murdock	17	22	5 50	22 00	27 50
C. D. Caven	7	68	17 00	68 00	85 00
George Swift	2, 3, 18	No. 1—164 / No. 2—153	42 25	139 00	181 35
H. Burgess	19	174	43 50	174 00	217 50
Sarah A. Bull	4	25		25 00	25 00
C. E. Blake	1	10		10 00	10 00
Thos. Ladlam	5	10		10 00	10 00
J. F. Michel	8	10		10 00	10 00
D. Decth	16	5		5 00	5 00

By order of the Boards of Trustees.
15-5t WM. T. ATWOOD, Secretary.

Phœbus Gold and Silver Mining Company, Big Creek Mining District, Lander county, N. T.—Office No. 1 and 2 Government House, corner Washington and Sansome streets, San Francisco.—Notice is hereby given, that, in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the Phœbus Gold and Silver Mining Company, there will be sold at Public Auction, at the office of the Company, at 11 o'clock A. M., on SATURDAY, the 30th day of April, 1864, so many delinquent shares of the capital stock of the Phœbus Gold and Silver Mining Company, standing in the names of the following persons, as will be necessary for the payment of Assessment No. 1, of twenty cents per share, levied August 21st, 1863, and Assessment No. 2, for fifty cents per share, levied December 1st, 1863, and Assessment No. 3, for fifty cents per share, levied January 26th, 1864, together with costs of advertising and expenses of sale, unless said assessments and charges are previously paid, to the Secretary, at the office of the Company:

Names.	Shares.	Asst. No. 1–20c.	Asst. No. 2–50c.	Asst. No. 3–50c.
Adams, W. P.	11			$5 50
Brown, B. R.	13			6 50
Bland, Adam	10			5 00
Francis, D. B.	7½		$ 3 75	3 75
Gray, B. J.	59		29 50	29 50
Gray, John	139		51 50	53 50
Grotjan, G. W.	25		12 50	12 50
Goyan, P.	10			5 00
Harvey, Joseph	25			12 50
Harvey, James	25			12 50
Irvine, John	190	$38 00	95 00	95 00
Kusson, C. S.	11			5 50
Nahl, H. W. A.	11		5 50	5 50
Parsons, S. H.	170	34 00	85 00	85 00
Phelps, T. G.	11			5 50
Palmer, E. C.	11			5 50
Perkins, J. L.	25			12 50
Rogers, W. H.	100			50 00
Rogers, Robt	5			2 50
Ralph, Thomas	25			12 50
Sicere, Robt	25			12 50
Strout, E. N.	25			12 50
Sherwood, Benj.	10			5 00
Turner, Geo. R.	23		11 50	11 50
Uhrig, C. A.	23		11 50	11 50
Valentine, S. D.	7½		3 75	3 75

S. C. GALLAHER, Secretary.

San Francisco, March 25th, 1864. 13-5t

Desert Mining Company, Flowery District, N. T.—Notice is hereby given, that on SATURDAY, the twenty-third day of April, 1864, at 12 o'clock, M., there will be sold at auction, at the salesroom of John Middleton & Son, No. 400 Montgomery street, San Francisco, a sufficient number of shares in the capital stock of the Desert Mining Company, standing in the names of the following persons, to pay the assessment (No. 10) of one dollar per share, levied January 20, 1864, together with the expenses of advertising and sale, unless the same shall have been previously paid, viz:

NAMES.	CERTIFICATE.	SHARES.	AM'T.
Bayerque, R.	296	10	$10
Bayerque, R.	319	5	5
Budd, W. C.	304	5	5
Budd, W. C.	305	5	5
Budd, W. C.	345	5	5
Budd, W. C.	346	20	20
Budd, W. C.	347	20	20
Budd, W. C.	348	20	20
Budd, W. C.	349	20	20
Budd, W. C.	350	20	20
Cahill, Edward	274	25	25
Cahill, Edward	303	70	70
Critchfield, Henry	300	10	10
Critcher, Henry	317	10	10
Cullen, Jeffrey	151	25	25
Cullen, Jeffrey	154	25	25
Davis, G. H.	352	25	25
Donohue, Ralston & Co.	271	20	20
Fitch, J. R.	360	50	50
Hall, R.	343	5	5
Hay, A. M.	289	5	5
Hall, O. C.	329	5	5
Hedley, P. D.	358	12	12
Homtray, R.	250	10	10
Hyman, P. C.	228	20	20
Hyman, P. C.	229	20	20
Ireland, L. F.	288	10	10
*Lyon, J. H.	5, 6, 22 to 28	100	200
Milliken, I. F.	297	25	25
Moody, W. E.	251	10	10
Morgan, George J.	273	10	10
Morrison, J. C.	299	5	5
Nesmith, J. F.	361	25	25
O'Brien, John	323	3	3
O'Brien, John	326	12	12
Reinhart, E.	330	20	20
Spiers, C. D.	269	25	25
Schmiedell, Henry	356	5	5
Stoutenborough, C. H.	265	10	10
Tobin, R. J.	134	10	10
Van Tassell, T.	221	10	10
Watson, N. A.	140	5	5
Young, D. W.	325	20	20
Young, D. W.	339	5	5

By order of the Board of Trustees.
DAVID WILDER, Secretary,
No. 240 Montgomery street, San Francisco.

* NOTE.—100 shares in the name of J. H. Lyon will be sold subject to assessment No. 9, of one dollar per share, levied March 12, 1863.
12v8-5t DAVID WILDER, Secretary.

Omaha Copper Company, Calaveras County.—Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Omaha Copper Company, there will be sold at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on SATURDAY, April 23d, prox., at 11 o'clock A. M. of that day, to the highest bidder for cash, in U. S. gold coin, so many shares of the capital stock of said Company, standing in the names of the following shareholders, as will be necessary for the payment of assessments duly levied thereon by the Board of Trustees, on the 28th of December, 1863, and on the 5th of February, 1864, of twenty cents per share each, together with the expenses of advertising and sale—to wit:

Names.	No. of Shares.	No. Asst.	Amt.
Z. Coffin	50	3	$10
S. Foster	5	3	1
I. L. Champlin	10	3	2
S. B. Wooster	15	3	3
F. A. Burch	10	2 3	4
S. C. Norton	10	2 3	4

By order of the Board of Trustees.
13-4t T. A. MUDGE, Secretary, 528 Clay street.

Enterprise Copper Mining Company, Placer County, Cal.—Office 645 Clay street, San Francisco.—At a meeting of the Board of Trustees of this Company, held March 12th, 1864, an assessment (No. 12) of 50 cents per share was levied upon each and every share of the capital stock of said Company, payable immediately, in gold coin, to Thos. Levy, Treasurer, at Lincoln, Placer county, or to the Secretary, at the office of the Company. The Board also gives notice that whatever assessments have been paid in on Numbers 7 to 11 inclusive will be credited on Assessment No. 12. By order of the Board of Trustees. M. G. ELMORE, Sec'y.
San Francisco, March 12th, 1864. 14-tf

Roderick Gold and Silver Mining Company, Reese River Mining District, N. T.—Notice is hereby given, that at a meeting of the Board of Trustees of the above named Company, held this day (March 31st, 1864,) at the office of the Company, an Assessment of two dollars ($2) per share was levied on each and every share of the capital stock of said Company, payable immediately, in gold coin, at the office of the Secretary, No. 224 Montgomery street, San Francisco, or to Julius Sichel, Corresponding Secretary, at Austin, N. T. WM. T. ATWOOD, Secretary.
San Francisco, March 31, 1864. 14-4t

Index Mining Company (Location, Copper Canon District, Copperopolis, Cal.)—Office, 415 Montgomery street, San Francisco, March 30, 1864.—Notice is hereby given, that at a meeting of the Board of Trustees of the Index Mining Company, held March 23, 1864, an Assessment of fifty cents per share was levied upon the capital stock of the Company, and made due and payable immediately, in U. S. coin, to the Secretary, at the office of the Company. Certificates of stock are now ready for delivery on payment of this assessment.

☞ The first annual meeting of the Stockholders of the Index Mining Company will be held at the office of the Company on SATURDAY EVENING, APRIL 30, 1864, at 8 o'clock, for the adoption of by-laws, election of Trustees for the ensuing year, etc. By order of the Board of Trustees. [14-5t] RICHARD C. ALDEN, Sec'y.

Puritan Gold and Silver Mining Company, Devil's Gate District, N. T.—Notice is hereby given, that the Trustees of the Puritan Gold and Silver Mining Company have this day levied an Assessment (No. 2) of fifty cents on each and every share of the capital stock of said Company, payable immediately, in gold coin, to the Secretary; at the office, No. 620 Washington street, San Francisco, or to H. W. Arnold, at Silver City, N. T.
March 31st, 1864. (14-4t) H. B. CONGDON, Secretary.

CAUTION.—Parties incorporating mining companies, who desire the choice of advertising in either a daily or weekly newspaper, should be particular to cross out the word "daily" when using the form of blank by-laws sold by the stationers of this city.

Pleayune Gold, Silver and Copper Mining Company, Bear Culch, Calaveras Co.—At a meeting of the Board of Trustees of the above Company, on the 17th day of February, 1864, an assessment of six cents per share on each and every share of the Capital stock of the said Company was levied, payable on or before the 22d day of March, 1864. And Notice is also hereby given that the first annual meeting of the Stockholders of the said Company will be held on Tuesday the 22d day of March 1864, at the office of the Company at Copperopolis, for the purpose of electing officers for the ensuing year, for the adoption of By-laws, and for the transaction of such other business as may come to its notice. All Stockholders are respectfully requested to attend.

By order of the Board of Trustees,
L. HONIGSBERGER, Sec'y.
Copperopolis, Feb. 17th, '64. 9v8-4t

Copperopolis, March 22d, 1864.
The above meeting has been postponed until the 20th of April next.
13-td L. HONIGSBERGER Sec'y.

Bay State Gold & Silver Mining Company, Turnback District, Tuolumne County, Cal.—At a meeting of the Board of Trustees of the Bay State Gold and Silver Mining Company, held the 23d day of March A. D. 1864, an assessment (No. 4.) of two ($2) dollars per share on each and every share of the Capital Stock of said Company, was levied, (for a Mill fund), payable immediately, in U. S. Gold Coin, to the Secretary, at the Office of the Company, southeast corner of Howard and Second Sts., San Francisco. By order of the Board of Trustees. J. F. HARRIS, Sec'y.
San Francisco, March 24th, 1864. 13-4t

Mount Eden Mining Company, Owen Lode, Cold Hill District, N. T.—Notice is hereby given that the Board of Trustees of the Mount Eden Mining Company, at a meeting held March 17th, 1864, levied an assessment (No. 2,) of fifty cents on each and every share of the Capital stock of said Company, said assessment payable immediately in U. S. Gold Coin to the Secretary at the Office of the Company, No. 620 Washington St., Room No. 3, or to FRANKLIN MORGAN, Esq., Superintendent at the mine.
13-5t H. B. CONGDON, Sec'y.

Rock Rose Gold and Silver Mining Company, Cold Hill, N. T.—Office 605 Sacramento street, San Francisco, April 5th, 1864.—Notice is hereby given, that at a meeting of the Board of Trustees of the Rock Rose Gold and Silver Mining Company, held at the office of said Company, this day, there was duly levied an assessment of twenty-five cents on each and every share of the capital stock of said Company, payable immediately, in gold coin, to the Secretary, at the office of the Company, or to R. H. NASON, Superintendent, at the mine. By order of the Board of Trustees.
15-4t S. C. GARDNER, Secretary.

Prima Donna Gold and Silver Mining Company, Devil's Gate District, N. T.—Notice is hereby given, that the Board of Trustees of the Prima Donna Gold and Silver Mining Company, at a meeting held April 2d, 1864, levied an assessment (No. 6) of fifty cents on each and every share of the capital stock of said Company; said assessment payable immediately, in gold coin, to the Secretary, at 620 Washington street, San Francisco, or to FRANKLIN MORGAN, Superintendent, at Silver City, N. T.
15-4t H. B. CONGDON, Secretary.

Revere Gold and Silver Mining Company.—Notice is hereby given, that at a meeting of the Board of Trustees of the Revere Gold and Silver Mining Company, held this 26th day of March, 1864, an assessment of one dollar and fifty cents ($1.50) per share was levied upon each and every share of the capital stock of said Company, to be paid immediately, in United States gold coin, to the Secretary, at his office, northwest corner of Washington and Montgomery streets, in the city and county of San Francisco, California. By order of the Board of Trustees.
15-5t H. C. KIBBE, Secretary.

The Daily Evening Express, at Victoria, Vancouver Island is published by Messrs Wallace, Allen & Hardynge. Terms of subscription: One year, by mail, $10; six months, $6. It contains the late, Mining, Commercial, and General News, up to the hour of going to press. Being the ONLY EVENING PAPER published in Victoria, and having a circulation equal to any other Journal in the Colony, it will be found an excellent medium to enable advertisers to bring their notices before the Public. W. H. TOBEY,
Agent, Government House, San Francisco. 15-1f

Victory Gold and Silver Mining Company, Golden City Gold and Silver Mining Company, Idaho Consolidated Gold and Silver Mining Company—Office, 645 Clay street, San Francisco, March 8th, 1864.—At a meeting of the Board of Trustees of the Victory, Golden City, and Idaho Consolidated Mining Companies, held at their office, March 3d, 1864, an assessment of 25 cents per share was duly levied on each and every share of the assessable stock of the above Companies, payable immediately, in U. S. gold coin, to the Secretary, By order of the Board of Trustees.
13-td M. G. ELMORE, Secretary.

Millard Fillmore Gold and Silver Mining Company, Reese River District, Lander county, Nevada Territory.—An assessment of twenty-five cents per share was levied on the capital stock of the above named Company, on the 3d day of October, 1863, payable at the Company's office; also, an assessment of twenty-five cents per share was levied on the 21st of March, 1864, payable immediately as the Company's office, 305 Montgomery street, S. F., or to B. Crnthers, Austin, N. T. J. S. LUTY, Secretary.
San Francisco, March 24, 1864. 13-4t

Table Mountain Copper Mining Co.—Office, 645 Clay street, San Francisco, March 25th, 1864.—Notice is hereby given that an assessment (No. 5) of 50 cents per share was this day levied on each and every share of the capital stock of the Table Mountain Copper Mining Company, payable immediately, in U. S. gold coin, to the Secretary, or to J. M. Pike, Superintendent, Copperopolis. By order of the Board of Trustees.
13-tf M. G. ELMORE, Secretary.

Savage Mining Company, Zinc House District, Nevada County, Cal.—San Francisco, March 26th, 1864.—A Stockholders meeting of the Savage Mining Company will be held at the Office of the Company, 645 Clay street, on Monday May 2nd, 1864, at 9 o'clock A. M. By order of the Board of Trustees.
14-4t M. C. ELMORE, Sec'y. *pro tem.*

Sierra Consolidated Gold and Silver Mining Company, Sierra county, Cal.—Office 302 Montgomery street, San Francisco.—NOTICE.—There are delinquent, upon the following described stock, on account of assessment levied on the 27th day of February, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	Shares.	Am't.
Garrett Hopper,	448, 923, 924	35	$17 50
K C Eldridge,	535, 533, 534, 536, 537	700	350
Harry Eldridge,	595	700	350
J W Jnnes,	477	5	2 50
Julius Thierbach,	479	10	5
P M Govern,	485, 486, 487, 721, 722, 733, 803, 839, 931, 937	930	465 00
Merrit Welton,	492	25	12 50
E Rondel,	493	5	2 50
J Marie Journe	488, 980	50	25
Daniel Friak,	494	20	10
E F Burdick,	497, 499, 510, 611, 984	37	18 50
Wm M Newball,	510, 518	20	10 00
H Adolphus,	520	10	5
H Wasbburn,	587	50	25
J Beeur Martin,	596	15	7 50
W J Filley	603	25	12 50
M E Tobin,	614	20	10
Mrs J R Tobias	670	10	5
James H Stewart	674	5	2 50
T L Bibbins,	458, 460, 462, 464, 1 05	80	40
S T Walsb,	221, 222, 223, 970	50	25
Jnn Ryan	229	20	10
F T Eisen,	265	350	175
Wm Bohm	339, 340, 341	20	10
Bishop Sheldon,	726, 727, 728, 729	314	157
D A McDnnald	83, 84, 85	86	48
Jnbn P Sbeldon,	235	10	
Jno Harding,	251, 694	40	20
F R Baby,	188, 189, 190, 191, 1054, 1055	300	150
J F Eddy,	part of 200	16	8 00
Henry Micbaels,	266	5	2 50
Chas E Murray,	269	5	2 50
Mrs Annettn M Dean,	272	25	12 50
Beajamin Dean,	273, 868	75	37 50
Mary Eisler,	261, 344	20	10
A A Susenbeth,	262, 343	40	20
Marie Garategny,	342	20	10
Placide Sevolle,	345	5	2 50
Q A Chase,	309	100	50
Timnthy Canty,	675	1	50
A Levi,	688	10	5
Catherine McKay,	682	10	5
P C Fogarty,	816	10	5
Jas McElroy,	702, 893	30	15
James Neary,	385, 421 423, 402	41	20 50
Henry W McPyke,	203, 2 4, 881, 882	195	97 50
Tbns W Leggett,	883, 951, 953, 973	50	25
Cornelius Riley,	894	5	2 50
Mrs Mary Murry,	900, 938	38	19
Mrs Johannab Murphy	903	40	20
Geo W Osborne	905	10	5
James McCabe	912, 941	40	20
Mark W Higgins,	913, 914, 915, 916	260	130
Thos J Owens,	977	10	5
Julia Martin,	982	10	5
Wm Cnrcoran,	979, 1050	40	50
J L Janes,	989	5	2 50
Laura A Taylor,	992	140	70
H A Chase	1010	5	2 50
Donald McDonald,	998	10	5
Eliza A Delgado,	1103	5	2 50
James L Burns,	1043	5	2 50
A P Williams,	1041	10	5
Thomas Kelly,	1051	10	5
John Halpin,	1048, 1049	20	10
J B Monre,	1001	50	25
Mrs Dorcas Taylor,	887, 1036, 1038, 1064	228	114
Thomas Dnimm,	1062, 1065, 1067, 1077	150	55
John Cunningbam	527	10	5 00
Michael O'Neil	230	20	10 00
Arthur K Hawkins	1, 2, 3, 4, 5, 6, 7,	700	3 50
James Hawkins	10, 12, 15, 763	179	89 50
Timothy Shields	158, 160, 161, 762, 761, 760, 165, 164, 162	213	106 50
Thos O'Neil	604	5	2 50
Edward Pearson,	balance due on 719, 817	140	55 00
Q S Hagberg	183, 185, 186, 1059, 1050	100	50 00
Ed Jelliugs	1040	15	7 50
J C Stnkes	18	25	12 50
John Todd	856	50	25 00
Mary A Stokes	30	30	15 00
F R Lewis	66, 114, 115, 116, 978	135	67 50
W C Stnkes	42, 43, 44, 45, 46, 48, 49, 51, 56, 58, 59, 983, 990	193	96 50
James G Shaw	90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 101, 105, 107, 108, 109, 110, 111, 112, 113, 609	225	112 50
George Ersln	264	175	87 50
Frederick P. Green	709, 710, 769	80	40 00
E A Pearson	718	5	2 50
Wm Pearsnn	613	5	2 50
Barnard McPike	750	20	10 00
Madame Lecbard	759	5	2 50
James Linin	755, 756, 757, 758, 890	230	115 00
L McNnlly	764	30	15
E R Stewart	766	10	5
E T Peck	767, 778	30	15
J P Thnmas	777	20	10
Victnr Hoffman	779	20	10
Johnnna Crnwley	782	20	10
B T Tuttle	847, 848, 849	25	12 50
Frederick Gnodell	819	20	10
Malachy Nnghton	808, 809, 810	500	250
O Halloran	989	2	1
Moynehan & Aitkin	793	25	12 50
Isnnc Lowenstein	806	10	5
A Cameron	840	25	12 50
Frank McGlynn	851, 862	30	15
John Dnnelly	863	10	5
C Cnnniffe	857	5	2 50
E. B. M. Manus	866	5	2 50
C P Willinms	867	50	25
Jnhn Dow	876	6	3
James M Sbackey	891	20	10
Mrs Eliza Lake	894	5	2 50
Mrs A P Hotaling	895	20	10
Eleander Heath	901, 907, 908, 953, 909, 910, 963, 965	242	121
James Brereton	929	10	5
Chas A Hawley	950	25	12 50
Geo H Hopps	962	50	25
Philip Conway	967	15	7 50
Samuel Drugan	968	15	7 50
H H Bryne	969	10	5
John A Wright	972	10	5
Edwnrd Durkin	974	1000	500
A M Gelman	1066	10	5
S W Cnry	1105, 1114, 1120, 1121, 450	125	62 50

And in accordance with law, and an order of the Board of Trustees, made on the 6th day of April, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the sales-No. 400 Montgomery street, on the 16th day of May, 1864, at the hour of 12 o'clock M. of said day, to pay said delinquent asses sment thereon, together with costs of advertising and expenses of the sale.

T. L. BIBBINS, Secretary *pro tem.*

Office, 302 Montgomery street, San Francisco, Cal.

San Francisco, April 16th, 1864. 16-4t

Office of the Cedar Gold and Silver Mining Company, Esmeralda District.—Notice is hereby given, that there is delinquent upon the following described stock, on account of assessments levied on the 28th of March, 1863, July 16th and July 17th, 1863, respectively, of fifty cents per share each, as follows:

Assessment No. 1, 50 cents per share, levied March 28th, 1863.

Names.	No. Certificates.	Shares.	Amt.
H. S. Sanders,	Stock not issued.	88	$44 00
S. O. Sheldon,	Stock not issued.	5	2 50
J. R. McGinnis,	Stock not issued.	9	4 50
Amos Houlton,	27	10	5 00

Assessment No. 2, 50 cents per share, levied July 16th, 1863.

L. B. Greenman,	6, 7, 8 and 9	50	25 00
Warren Norton,	31	12	6 00
T. E Dorr,	43 and 44	20	10 00
James W. Tilton.	Not issued.	2½	1 25
J. R. McGinnis,	Not issued.	9	4 50
S. O. Sheldon,	Not issued,	5	2 50
H. S. Sanders,	Not issued.	88	44 00

Assessment No. 3, 50 cents per share, levied July 17th, 1863.

L. B. Greenman,	6, 7, 8 and 9	50	25 00
Warren Norton,	31	12	6 00
T. E. Dorr,	43 and 44	20	10 00
James W. Tilton,	Not issued.	2½	1 25
J. R. McGinnis,	Not issued.	9	4 50
S. G. Sheldon,	Not issued.	5	2 50
H. S. Sanders,	Not issued.	88	44 00

And in accordance with law, and an order of the Board of Trustees, made on the 11th inst., so many shares of each parcel of said stock as may be necessary, will be sold at the auction rooms of Jerome Rice & Co., 327 Montgomery street, on MONDAY, the 16th day of May next, at 12 o'clock M., to pay the said delinquent assessments thereon, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

T. L. BIBBINS, Secretary.

Office, 302 Montgomery street, San Francisco, Cal.

April 15th, 1864. 16-4t

Office of the Eureka Mining Company, Location of Works, Mineral Spring Mining district, County of Calaveras and State of California.

Notice is hereby given, that at a meeting of the Trustees of said Company, held on the 12th day of April, 1864, an Assessment of 20 cents per share was levied upon the Capital Stock of said Company, payable on the 16th day of April 1864 in United States Gold Coin, to the Secretary, at the Office of the Company, No. 625 Clay St., San Francisco, California.

Any stock upon which said Assessment shall remain unpaid on the 14th day of May, 1864, will be advertized on that day as delinquent, and unless payment shall be made before, will be sold on the 30th day of May, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale.

C. W. HAYDEN, Sec'y.

Office, at No. 625 Clay Street, San Francisco, California. 16-4t

Rose Linda Mining & Manufacturing Company, Mokelumne Mining District, Amador County, Cal.—Notice is hereby given that at a meeting of the Trustees of the above Company, held on the 11th day of April, 1864, an assessment of Fifty (50) cents per share was levied upon the Capital Stock of said Company, payable in Gold and Silver coin on the 11th day of May next, to the Secretary, at the Office of the Company, 5 9 Clay St., Room No. 2.

Any Stock upon which said assessment shall remain unpaid on the 11th day of May next, will be advertised on that day as delinquent, and unless payment shall he made before, will be sold on the 26th day of May 1864, at the Office of the Company 509 Clay St., to pay the delinquent assessment, together with the costs of advertising and expenses of sale. HENRY HALE, Sec'y.

San Francisco, April 11th, 1864, 16-4t

Office of the Henry and Bernard Consolidated Gold, Silver and Copper Mining Company.

WANTED.—Proposals for runing a tunnel, from 130 to 150 feet, into a claim owned by the Henry & Bernard Consolidated Gold, Silver & Copper Mining Company, situated in Weaver district, Arizona Territory, about 10 miles from Olive City. For description of the ground and specifications, Apply to I. M. BLOOD, General Superintendent, at the Office of the Company, No. 334 Montgomery street, San Francisco, from 10 to 11 o'clock, A. M.

16v8-tf GEO. W. GILDERSLEIVE, Sec'y.

SECRETARIES' MEMORANDA.

For Advertising Mining Notices in the Mining and Scientific Press.

Assessments levied by order of the Board of Trustees of Mining Companies will be duly advertised, in strict accordance with the new law, in the MINING AND SCIENTIFIC PRESS by observing the following rules, which we publish for the purpose of assisting Secretaries in expediting their business, and avoiding the possibility of errors in regard to dates:

When the order for an assessment is made on MONDAY, TUESDAY, WEDNESDAY, THURSDAY or SATURDAY of *any week*—

THE NOTICE OF ASSESSMENT may appear on the FIRST Saturday subsequent to the order.

THE DAY FOR THE NOTICE OF SALE to appear may be fixed on the FIFTH Saturday subsequent to the order.

THE DAY OF SALE may be fixed on the SEVENTH Saturday, or any day (except Sunday) from that date to the eighth Friday, subsequent to the order.

OWING to the arbitrary provisions of the new law (the original bill of which deprived the mining public of the benefit of their choice of advertising in weekly journals), no assessment can be made upon any Friday, and the publication for the collection of the same be made weekly in the Saturday issue of any daily or weekly news-paper.

REVISED COPIES of advertisements will be printed gratuitously for Secretaries who desire advertising near the mines.

ADVERTISEMENTS should be handed into the office as early in the week as possible.

DEWEY & CO., Publishers,

15-tf 56 and 57 Government House, San Francisco.

Record of New Incorporations.

The following is a record of the names of the companies, location of the claims, and the names of the Trustees mentioned in the articles of incorporation, filed in the County Clerk's office, in this city, since our last report:—

William Penn Consolidated M. Co., Lyon county, N. T.; George S. Mann, John Barton, R. Perry, H. F. Cutter, G. W. Ryckman, E. H. Doty, James H. Ray.

Fortune No. 2 S. M. Co., Lander county, N. T.; A. D. Meacham, C. E. Gibbs, W. L. Perkins, J. W. Work, Theodore E. Smith.

Siskiyou Lion M. Co., Siskiyou county, Cal.; A. Goldsmith, R. J. Vandewater, Wm. Norris, John J. Kelly, E. H. Washburne.

Ophite S. M. Co., Storey county, N. T.; B. J. St. John, John S. Yeates, Jr., S. A. Bemis, George E. Davis, Noble Lovely.

Green Spring S. M. Co.; same as above.

Fortune M. Co., Calaveras county, Cal.; John Stock, B. Dolheguy, Ernest Stock, A. Fasserlon, Louis Brunner.

Toledono G. & C. M. Co., Mariposa county, Cal.; A. Navarino, J. A. Kallon, A. Kocher, P. Hussey, A. Sabatic.

Eureka Mill and Mining Co., Big Creek, N. T.; R. W. Brott, John Dolbeer, Wm. Carson, W. F. Swasey, H. M. Buhne.

Escondido G. M. Co., San Diego county, Cal.; John C. Houser, H. Blankelug, Conrad Riegelhuth.

NEVADA TERRITORY.

We gather from the Territorial papers the following names of mining companies which have recently filed papers of Incorporation in Nevada Territory:—

Eugenia O. & S. M. Co., American Flat district; T. B. Morse, Jos. Loryeh, T. F. N. Slack.

East India G. & S. M. Co., Gold Hill district; A. Thrift, S. H. Brown, E. Strother, A. Sanborn, H. S. Winn.

Brother Jonathan G. & S. M. Co., Gold Hill district; T. J. Devoe, John Sharp, James Livingston, Geo. Telfer, Wm. Burch.

Liberty G. & S. M. Co.; Thomas Matheson, B. B. Jackson, F. A. Seabury, O. H. Irwin, T. H. Reiley.

Indian Queen M. Co., Virginia district; L. E. Buckley, J. Carroll, Geo. W. Lamereaux.

Grant G., S. & C. M. Co., Oenesee district; Theodore Cemlotti, C. H. Beckwith, J. T. McCann, A. S. McCann, W. J. Wilson.

Brown G. & S. M. Co., Gold Hill district; S. H. Brown, A. Sanhora, W. W. Bryon.

Honest Abe O. & S. M. Co., Virginia district; Thos. Haunah, C. M. Cornwall, D. D. Smith, Martin White, Michael Cicato.

Daniel Webster G. & S. M. Co., Red Mountain district; B. F. McKenna, J. W. Brown, E. Pierson, F. Gregory.

Masonic G. & S. M. Co., Masonic lodge; A. H. Mitchell, B. A. Hicks, Wm. Middleton.

THE ATLAS IRON WORKS,

No. 24 & 26 Fremont Street.

—MANUFACTURE—

STEAM ENGINES, MINING MACHINERY, QUARTZ MILLS, MINING PUMPS, AMALGAMATORS, AND ALL OTHER KINDS OF MACHINERY FOR MINING OR MILLING PURPOSES.

Castings of all kinds,

Furnished. Our new and complete arrangments will enable us to do this kind of work in a superior manner and on the shortest notice.

Steam Engines of Scott's Patent,

Can be furnished of any size, and of high or low pressure. These Engines combine so many points of decided improvement in their simplicity of construction, and in the economy of fuel for running them, as to make them superior to all others. One can be seen in operation at the works, where all information respecting them can be obtained.

16v8 THOMAS SCOTT & CO.,

COMMISSIONER OF DEEDS

For Arizona Territory,

B. W. MUDGE,

16v8-3m **No. 528 Clay street, San Francisco.**

Pacific Mail Steamship Company.

THE FOLLOWING STEAMSHIPS WILL BE DESPATCHED FROM SAN FRANCISCO IN THE MONTH OF APRIL, 1864.

April, 13—GOLDEN CITY.....R. H. Pearson, Commander.
April, 23—ST. LOUIS,.....Wm. H. Hudson, Commander.

From Folsom street Wharf, at nine o'clock A. M., punctually,

FOR PANAMA.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company.

A. B. FORBES, Agent P. M. S. Co.,

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Lithographer & Engraver,

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ORE BAGS.

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JOHN DANIEL,

(SUCCESSOR TO O. GOBI)

MARBLE WORKS,

No. 408 Pine street, bet. Montgomery and Kearny, San Francisco.

Mantels, Monuments, Tombs, Plumbers' Slabs, Etc.,

On hand and Manufactured to order.

☞ Goods shipped to all parts of the State. Orders respectfully solicited. 5v8-3m

RICHARD WEGENER,

Accountant, Mining Secretary,

AND GENERAL AGENT.

No. 204 Montgomery St., Southeast cor. Montgomery & Pine Sts.,

11-m SAN FRANCISCO.

REMOVAL.

THE OFFICE OF DEETKEN & CO'S METALLURGICAL WORKS HAVE BEEN REMOVED FROM 605 to 315 MONTGOMERY ST., SAN FRANCISCO.

16 DEETKEN & CO

Business Cards.

C. A. CRANE. A. E. CRANE.

CRANE BROS.,

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☞ All kinds of Stocks Bought and Sold on Commission. 14

W. O. ANDREWS,

NOTARY PUBLIC,

—AND—

Commissioner of Deeds for Nevada Territory.

Office, Montgomery Block, 630 Montgomery Street,

10v8-3m SAN FRANCISCO.

E. A. HYDE,

Commission & Stock Broker,

AND MEMBER OF

The "Washoe Stock Exchange"

10v8-1m **Virginia, Gold Hill, N. T.**

H. C. KIBBE,

Mining Secretary,

Commissioner for Nevada Territory,

22 Lyceum building, cor. Washington and Montgomery sts.,

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Mining Stock, Loan & Money Broker.

Particular attention paid to Washoe, Esmoralda, and all other classes of Mining Stocks. Collections promptly attended to. Money to Loan on Stocks.

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HENRY BAKER AND JOS. N. SOUTHER,

Mining Secretaries & Brokers.

Rooms 12 & 14 Athenæum Building, corner Montgomery & California Streets, San Francisco.

B. & S. will attend, in a prompt and satisfactory manner, to the Incorporation of Mining and other Companies, the purchase and sale of Stocks and Real Estate, and the adjustment of accounts.

8v8-m

Mutual

LIFE INSURANCE COMPANY,

—OF NEW YORK—

Capital, : : : : : : : : : $9,750,000.

H. S. HOMANS, Agent for California.

H. S. HOMANS,

NOTARY PUBLIC,

And Commissioner of Deeds for Nevada Territory,

MINING SECRETARY, CONVEYANCER, ETC.,

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Stock Brokers,

No. 630, Montgomery Street,.....San Francisco.

OPHIR SILVER MINING STOCK,
GOULD & CURRY MINING STOCK,
CHOLLAR MINING STOCK,
CALIFORNIA STEAM NAVIGATION COMPANY'S STOCK,

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W. F. DENCKLA. A. L. CHAMBERLIN.

DENCKLA & CHAMBERLIN,

Stock and Exchange Brokers,

S. W. corner of Clay and Montgomery streets,

SAN FRANCISCO.

☞ Deeds, etc., for record in Humboldt County, Nevada Territory, received and forwarded. 1-tf

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STOCK BROKERS,

N. E. Cor. of Montgomery and Washington Sts., San Francisco.

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WM. S. LYON & CO.,

Stock and Exchange Brokers,

303 Montgomery Street, corner of Pine,

SAN FRANCISCO.

QUARTERMASTER'S WARRANTS BOUGHT. THE HIGHEST Price paid for Legal Tender Notes. Open till 9 P. M. 1-3m

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REMOVAL.

J. R. BEARD, STOCK BROKER,

MEMBER SAN FRANCISCO STOCK AND EXCHANGE BOARD,

HAS REMOVED HIS OFFICE TO

8v8-tf No. 707 Montgomery street, Brokers Block.

Geo. F. M. Glover,

PREMIUM ORNAMENTAL AND FANCY PAPER CUTTER AND DECORATOR.

HALLS, DINING ROOMS, SALOONS, PRIVATE PARLORS, Steamboats, &c., Decorated in the latest and neatest style, Mirrors, Picture Frames, Chandeliers, &c., decorated with Tarlton or Paper. Particular attention paid to the decoration of Private Parlors. Address Box, 1,770, San Francisco Post Office. Can be found at W. S. Lyons & Co.'s, 304 Montgomery St., cor. of Pine. 15

H. S. Sanders & Co.,

Stock Brokers,

Members of the Stock & Exchange (1st) Board and of the Pacific Board of Brokers.

Stock Exchange Room, No. 546 Washington street,

12v8-m SAN FRANCISCO.

W. R. MAURICE,

Stock Broker, Real Estate Agent

And Mining Secretary.

Office, No. 708 Montgomery Street, San Francisco. References—Messrs. Parrott & Co., Bankers. 8v8-tf

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THOMAS HILL,

Member of the S. F. Stock and Exchange (1st) Board.

A. H. MURDOCK,

Member of Stock Exchange.

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SAN FRANCISCO.

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A. C. MORSE,

Mining and Real Estate Agent,

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HAVING MADE ARRANGEMENTS WITH MINER S. MARTIN, Esq., one of the principal Stock Brokers of San Francisco, I am prepared to BUY and SELL every description of Mining Stocks in Esmeralda District. tf

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MILITARY GOODS OF ALL DESCRIPTIONS. NAVY TRIMMINGS AND EMBROIDERIES. REGALIA FOR ALL ORDERS.

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Office of the Company No. 323 Montgomery street. 1tf

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CHAS. F. RIEHN, late U. S. Branch Mint, gives lessons in Assaying, also in Mineralogy and Chemistry, as far as required to become a practical Assayer.

REFERENCES with permission to Messrs. F. Parrot & Co., R. B. Swain, Esq., Messrs. Alsop & Co., Messrs. Donohoe, Ralston & Co. 1

G. E. MOORE,

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REFERENCES:—Prof. J. D. Whitney, State Geologist, San Francisco; Alsop & Co., San Francisco; Sather & Church, San Francisco; John Parrott, San Francisco; D. O. Mills, Sacramento. 1tf

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Working assays made of small lots, and all kinds of ores crushed at short notice.

Our new and complete Machinery, will enable us to give results fully up to the merits of rock.

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C. C. JONES, Amalgamator.
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Attend to all kinds of Grinding & Crushing,

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COPPER ORES, MARBLE DUST, FIRE-BRICK DUST, DRUGS,

And Feed of all Kinds,

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O. T. FOUQUE, Superintendent.

S. C. BRADSHAW, JR., Secretary.

Office, 511 Sacramento street, San Francisco. 3-tf

FOUND AND BURIED.—The party which went out from Star City in search of the remains of the late Dr. Smeathmad, were successful in their praiseworthy efforts. They found the body in a good state of preservation. The clothing was entirely stripped from it; in other respects it appears to have been undisturbed. They buried him where he fell. No Indians were seen.

A BROKERS' BOARD AT REESE RIVER.—We learn from the Reese River *Reveille* that the Pioneer Stock and Exchange Board perfected its organization on the 26th of March by the election of the following officers: J. M. Hixon, President; R. H. Shields, Vice President; J. M. Dawley, Secretary; W. W. Hobart, Treasurer.

THE Museum of Prague has just received a valuable gift, consisting of a colossal map of China, composed of eight large rolls of paper, neatly fitting each other. This work was executed in the seventeenth century, by some Catholic missionaries, under the Emperor Kang-Hi. The Chevalier Lipowski purchased it lately, during his stay in China, of a family which had been ruined by the war.

THE best mines this summer, says the Portland *Oregonian*, will be the farms of the Willamette valley. There is no mistake about it, and we hope their owners will understand it and cultivate every acre possible. Sensible.

THE school boys of Marysville are subscribing to a fund to buy and erect a monument over young Murbry, who was accidentally killed a few weeks ago by being thrown suddenly to the ground while wrestling.

SOMEBODY has given utterance to the following scrap of philosophy which if it be not good is at least cool: "The poor man's purse may be empty but he has as much gold in the sunset, and silver in the mood as anybody."

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. THE MINING AND SCIENTIFIC PRESS PATENT AGENCY has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

IMPORTANT!

The Best is Always the Cheapest!

THE PHŒNIX

INSURANCE COMPANY,

OF HARTFORD, CONN.,

And the $75,000 Deposit Act.

THE BILL REQUIRING ALL FOREIGN INSURANCE COMPANIES to make a special Deposit of $75,000 in Stocks of the United States, of this State, or stocks or bonds of the city, or city and county of San Francisco, with their banker or bankers in this city, on the FIRST DAY OF MAY, 1864, having become a law, it may be of interest to the insuring public to know that the PHŒNIX INSURANCE COMPANY, OF HARTFORD, IS READY TO COMPLY WITH ITS REQUIREMENTS AT ONCE. The Company has over $50,000 in city and county of San Francisca bonds, already on deposit with Messrs. Banks & Co. R. H. MAGILL, General Agent.

CITY OFFICE—In the "James King of Wm." building, southwest corner of Montgomery and Commercial streets, San Francisco.
I. FRANK, City Solicitor. (14v8-tf) L. B. DELL, City Agent.

PHŒNIX WORKS.

Nos. 6 & 3 Battery street, near Bush, San Francisco.
JOHNATHAN KITTREDGE, MANUFACTURER
—OF—
FIRE-PROOF DOORS, SHUTTERS, GRATINGS AND BANK VAULTS.—ALSO, BLACKSMITH'S WORK. 14-m

BLASTING POWDER!

Prime Blasting Powder, on Consignment

And for sale in lots to suit purchasers, by
J. S. CURTIS,
6v8-tf No. 405 Front street, San Francisco.

FREDERICK MANSELL.

Mechanical & Architectural Draughtsman,

No. 422 California street, corner of Leidsdorff.

Drawings of MODELS made for parties applying for patents at Washington or London. mar23-tf.

Miscellaneous Advertisements.

D. B. HINCKLEY, WM. E. WORTH. WM. A. FIELD

Fulton Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First Street, between Market and Mission sts.
3-qy SAN FRANCISCO.

J. H. CRUSH, J. A. PEER, W. BUSHMAN

CRUSH & CO.,

Pattern and Model Makers.

Drawings Made for Engines, Mills, Water Wheels, Mining Machinery, Etc.

—ALSO—

WOOD WORK FOR ALL KINDS OF MACHINERY.

☞ SCROLL SAWING DONE TO ORDER.

Fremont St., between Market and Mission, San Francisco. 3-3m

GEORGE T. PRACY,

MACHINIST AND BLACKSMITH.

Steam Engine, Flour and Saw Mill,

And Quartz Machinery, Printing Presses,

—AND—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED

Nos. 109 and 111 Fremont street, near corner of Mission,
OPPOSITE MECHANICS' MILL,
3-qy SAN FRANCISCO.

JOHN P. GALLAGHER.....JOSEPH H. WEED.

GALLAGHER & WEED,

BRASS AND BELL FOUNDRY

And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING, DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, MADE to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks, also brass Padlocks and Shop Locks of various patterns, on hand and made to order.
☞ Particular attention given to casting Rudder Braces and Ship Work in general.
☞ All Jobs promptly attended to.—Prices moderate. ☜
No. 125 First Street, opposite Minna, next door to Pacific Foundry.
[Removed from Oregon street, between Front and Davis.]
j2tf

LEWIS COFFEY. J. S. RISDON.

LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

THE ONLY EXCLUSIVELY BOILER MAKING ESTABLISHment on the Pacific Coast, owned and conducted by Practical Boiler Makers. All orders for New Work, the repairing of Old Work, executed as ordered, and warranted as to quality.

Old Stand, corner Bush and Market Streets. Opposite Oriental Hotel, San Francisco, Cal.

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,

BOILER MAKERS AND SHEET IRON WORKERS,

N. B. All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission, between Beal and Fremont Sts., San Francisco.
fy29-tf

LEANDER RANSOM,

Civil Engineer and Surveyor,

HAVING BEEN CONNECTED WITH THE PUBLIC WORKS OF the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. Also

State Locating Agent,

AND AS SUCH HAVING THE SALE OF

600,000 Acres of State School Lands.

At the low price of $1,25 per Acre.

TERMS—Twenty per cent in cash and the balance on a credit of several years.
oc7-tf Office, 323 Montgomery streets.

W. W. HANSCOM,

Steam and Mechanical Engineer. Designs furnished, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc., etc. Agent for McKenzie's Patent Cupola and Blower.

At the Golden State Iron Works,

First Street, San Francisco.
tf.

Boston Mastic Roofing.

WE ARE PREPARED TO FILL ALL ORDERS FOR ROOFING throughout the State, Mexico or Nevada Territory. The attention of miners and mill owners are especially called to this notice, it being the cheapest and most economical roofing in use.

Office 135 Montgomery Street, near Bush, San Francisco.
10v8-2m N. P. PERIN & CO.

WANTED,

Gold Quartz suitable for Cutting Jewelry.

By FRONTIER & DEVIERGY.

427 Pine Street, San Francisco.
au31tf.

MINERS' FOUNDRY

—AND—

MACHINE WORKS,

First street, between Howard and Folsom streets,

SAN FRANCISCO.

EVERY DESCRIPTION OF IRON AND BRASS MACHINERY, of the Best and Most Economical, manufactured in the State of California, will be furnished with dispatch at the Miners' Foundry and Machine Works, as:

Steam Engines and Boilers, Flour, Saw and Quartz mill machinery, Mining Pumps, Amalgamators, Retorts, Etc., Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections, designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities will be afforded ample facilities, free of cost.

All parties desiring accurate and highly finished drawings and Superior Machinery, at most reasonable rates are cordially invited to call before contracting elsewhere.
tf. HOWLAND, ANGEL & KING.

Vulcan Iron Works Company.

P. Torquet.....Manager.

Steam Engine Builders and Boiler Makers,

Iron Founders and General Engineers,

PUMPING, HOISTING, MINING AND QUARTZ-CRUSHING Machinery. Shoes and Dies of the hardest iron. Russia Iron Punched Screens, Steamboat Machinery, Saw, Flour and Sugar Mills. High and Low Pressure Boilers of all styles. JONVAL and other Turbine Water Wheels with latest improvements.
tf No. 187 & 139 First Street San Francisco.

A. S. HALLIDIE & CO.,

WIRE ROPE MANUFACTURERS.

Established 1857.

Office, No. 412 Clay street—Works, North Beach,

SAN FRANCISCO.

After seven years' use throughout the State of California and the Pacific Coast generally, we can confidently recommend Wire Rope for

HOISTING FROM DEEP MINES,
GUY ROPES FOR DERRICKS, &c.,
STANDING RIGGING FOR SHIPS,
FERRY ROPES FOR FERRIES,
SASH CORD FOR WINDOW SASHES,
ETC., ETC., ETC., ETC., ETC., ETC.

It being Cheaper, Stronger, Lighter and More Durable than any other kind of Rope, and not stretching or shrinking by atmospheric changes.

MINING COMPANIES, by using it for Hoisting Purposes, save 66 per cent. on their outlay for other ropes.

Wire Fencing Strand,

For fencing large parcels of land—permanently, economically and expeditiously. Manufactured in any length desired.

Pamphlets containing weight, strength and price, forwarded free application to the Manufacturers.

WIRE SUSPENSION BRIDGES AND AQUEDUCTS

We are prepared to erect, of any span and capacity, and take pleasure in referring those interested to the many structures of this kind built by us in California, Oregon and British Columbia, of span from 200 to 400 feet. 3-3m

IMPROVED WATER-WHEEL,

—PATENTED BY—

John Tyler, West Lebanon, N. H.

GIVING THE MAXIMUM POWER WITH THE MINIMUN COST—HAVING THE FOLLOWING AS SOME OF ITS ADVANTAGES OVER OTHERS—GIVING THE BEST PER CENTAGE OF WATER USED, DURABILITY.

It runs Equally as well IN Back Water as OUT.

IT IS ADAPTED TO HIGH HEADS OR LOW—IT IS NOT LIABLE to get out of repair—It can be put to running by any Machinist in a very short time—It is the steadiest running and easiest regulated wheel in use—There are now some 500 of them in use in the United States and Canadas, running under all heads, from 4 to 80 feet, and giving universal satisfaction. Address

SMITH & HANSCOM,
15v8-3m Golden State Iron Works, San Francisco.

WHEELER'S

Amalgamating and Separating Pans

IT IS ACKNOWLEDGED BY ALL WHO HAVE EXAMINED THE principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.

The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metal arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the triturating, this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.

Where these Pans have been introduced and operated by the side of others on sands from the same vat, the Wheeler Pans have uniformly gained a large percentage of metals, over its competitors, as well as a still larger percentage in the amount of work performed.

***These Pans may be seen in daily operation at the Miners' Foundry, on First street, San Francisco, where all interested are invited to call and examine for themselves.
no16-tf ZENAS WHEELER.

To Quartz Miners.

ALL PERSONS INTERESTED IN MINING MACHINERY ARE invited to call at Donahue's Foundry and examine my improved Amalgamator. It is unquestionably superior to anything now known for amalgamating Silver and Gold. It works 1000 pounds at a time, and will amalgamate over three tons a day. By the motion of the revolving muller, the pulp is drawn through its centre and passes under it, between the grinding surfaces, to the circumference; from whence it passes again over the muller to the centre, through the holes and between the grinding surface to the circumference as before. Thus a constant circulation of the pulp is kept up, bringing the particles of ore again and again under the muller, and reducing the whole mass to an impalpable powder.

No quicksilver lies between the surfaces to be ground, but at the circumference and centre of the pan where the metal must pass through it as the pulp circulates.

A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S. Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.
sep21

Business Directory of San Francisco.—Messrs. Stillwell & Co. are said to be meeting with excellent success with their important undertaking, and the public will soon be furnished with a convenient ly arranged book, containing the advertising cards of our leading firms, with a historical sketch of each upon the opposite pages.

Worth Considering.—Advertising has proved the medium of success to many of the most prominent business men of the world. Merchants, Inventors, Builders, Patentees, Manufacturers, Foundrymen, Machinists, and, in fact, all who wish to call the particular attention of the Mining, Professional, Mechanical and Industrial members of the community to their business, should not fail to advertise in the Mining and Scientific Press. The circulation of the paper is extensive, and has a wide range, reaching the most intelligent readers in every mining settlement of importance on the coast. A large number of copies are also sent East. Our terms are reasonable. "Live and help live" we believe to be a sensible motto.

How to make your Remittances.—In most of the mining towns, brokers will furnish checks on San Francisco at par, (or at a very slight advance) to those who wish to pay us for subscriptions, advertising, mining blanks, etc. When it is more convenient, money ma be remitted by mail at our risk if the parties sending will register their letters. Money sent by mail is seldom lost if properly enclosed. An excellent method is that of opening the layers of a card, placing the coins between the layers and sealing the edges together.

To Druggists and all Prescribing for Neuralgic and Nervous Cases.—Your attention is called particularly to the efficacy of WATTS' NERVOUS ANTIDOTE for the above. Feelings of humanity, independent of pecuniary considerations, would prompt you to recommend it in all cases of Neuralgic Pains, Face Ache, from defective teeth, and the General Wasting Away and Debility of the Nervous System, if you could have the assurance that this was what it is purported to be—THE GREAT RELIABLE TRANQUILIZER AND RESTORER OF THE SYSTEM. It has been repeatedly prescribed in cases of excessive drinking, on the verge of Delirium Tremens, and even while laboring under its distressing influence, with astonishing results. It contains no preparation of Opium or Valerian, and is never accompanied with the unpleasant sensation always experienced after taking successive doses of them. It is also the best Soothing Syrup in use. Patients have taken Watts' Nervous Antidote many months in succession, and experienced no unpleasant effect whatever—while the same continued use of many other popular remedies has completely shattered the system.

For sale, Wholesale and Retail, by SAMUEL ADAMS, U. S. Drug Store, corner of Pine and Kearny Streets, San Francisco. 6v8-2m

Brown's Bronchial Troches.

"I have never changed my mind respecting them from the first, excepting to think yet better of that which I began to think well of." Rev. Henry Ward Beecher.

"The Troches are a staff of life to me." Prof. Edward North, Pres. Hamilton College, Clinton, N. Y

"For Throat Troubles they are specific." N. P. Willis.

"Too Well known to need commendation." Hon. Chas. A. Phelps, Pres. Mass. Senate.

"Contain no Opium nor anything injurious." Dr. A. A. Hayes, Chemist, Boston.

"An elegant combination for Coughs." Dr. G. F. Bigelow, Boston.

"I recommend their use to Public Speakers." Rev. E. Chapin.

"Most salutary relief in Bronchitis." Rev. S. Seigfried, Morristown, Ohio.

"Very beneficial when suffering from colds." Rev. S. J. P. Anderson, St. Louis.

"Almost instant relief in the distressing labor of breathing peculiar to Asthma. Rev. A. C. Eggleston, New York.

"They have suited my case exactly, relieving my throat so that I could sing with ease." T. Ducharme Chorister French Parish Church, Montreal.

As there are imitations be sure to obtain the genuine.

Agents for California, Redington & Co., San Francisco. 14-1m

PRATER'S

PATENT CONCENTRATOR.

THE PROPRIETORS OF THIS NEW CONCENTRATOR, HAVING completed arrangements for its manufacture at the Fulton Foundry, in this city, now offers it to the public, with the fullest confidence that for the purpose for which it is designed

It Has No Equal in Use.

The principle of this machine, which is designed for a Concentrator exclusively, is entirely new. It is designed for separating finely divided quicksilver, amalgam and gold from the sands, and for concentrating and saving the sulphurets, and is to be placed behind all or any other machine in use. It is now in operation at

WHALER & THAYER'S REDUCTION WORKS,

North Beach, San Francisco,

To whom the Proprietors are permitted to refer, and where all interested in mining are respectfully invited to call and examine the best Concentrator in use.

This machine is now running on waste sands, from which it is taking out an average of 3½ pounds of quicksilver for each ton of sand. Orders or letters of enquiry may be addressed to

HUNGERFORD & PRATER, Proprietors.

San Francisco, April 1st, 1864. 14v8-tf

PACIFIC IRON WORKS,

First street, between Mission and Howard streets,

SAN FRANCISCO.

GODDARD & COMPANY,

— Manufacturers of —

STEAM ENGINES & BOILERS,

QUARTZ, FLOUR, SAW AND SUGAR MILLS,

AMALGAMATING PANS AND BARRELS, MINING PUMPS

AND HOISTING GEAR, WATER WHEELS,

And Machinery of Every Description.

Also furnish all kinds of Iron and Brass Casting. Only Manufacturers of the celebrated Bryan Battery. 14-tf

Mining Laws and Forms

JUST PUBLISHED, BY H. H. BANCROFT & CO., BEING A compilation of the Statutes of this State relating to Mining Corporations, Assessments, etc., with a digest of decisions of the Supreme Court and Forms of the Incorporation of Companies. Compiled by H. B. Congdon. 12mo., flexible cloth, $1,50. For sale at all the Bookstores. sep14-tf

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MAGNIFYING GLASSES FOR EXAMINING QUARTZ.

MINING COMPASSES, WITH SIGHTS AND LEVELS.

BLOW-PIPES, GOLD SCALES.

POCKET COMPASSES, MAGNETS,

DRAWING INSTRUMENTS, in cases and separate pieces.

MARINE AND FIELD GLASSES.

EYE PROTECTORS. GALVANIC BATTERIES.

THERMOMETERS. BAROMETERS.

The Largest Assortment on the Pacific Coast for sale by

LAWRENCE & HOUSEWORTH, Opticians,
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HORTON'S TRANSFER JOURNAL.

— An Article —

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For Mining Secretaries. For sale at this Office.

Orders from the Interior, accompanied with the Cash, will be promptly attended to. Price, $7; Postage paid, the price amounts to $7 50. 6v8-tf

J. P. LeCount & Co.,

..Furnish..

CERTIFICATES OF STOCK,

Equal to Lithograph, for $25.

Stock Ledgers, Transfer Books,

And all Stationery Required by Mining Companies,

AT LOW PRICES.

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Hardware, Building Materials

CARPENTERS' TOOLS, AGRICULTURAL AND MINING IMPLEMENTS, ETC., ETC.

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DESKS AND OFFICE FURNITURE OF ALL

KINDS, FOR SALE BY

JOHN WIGMORE,

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OFFICE JOBBING, of all kinds, promptly attended to.

j2-tf

E. C. DAKE,

Dealer in Clothing and Gent's Furnishing Goods,

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— of —

MEXICAN MINING STOCKS,

At No. 411 Clay Street, San Francisco.

OFFICE OF THE PENA AND LA MARRONENA SILVER MINing Companies, San Antonio District, Lower California.

All persons are invited to call and examine Ores from the above mines.

j1t WM. FAULKNER.

A New and Valuable Book.

PROCESS OF SILVER AND GOLD EXTRACTION, BY GUIDO Kustel, Mining Engineer and Metallurgist, former manager of the Ophir Works, &c.; 350 pages octavo illustrated.

This admirable work has met with the highest commendations from the Press and Scientific men, as a clear and able exposition of the science as practised in California and Nevada Territory. It is written for the people in good plain English and finely illustrated.

Price—post paid—Cloth $6; Sheep $7.

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JAMES LONGSHORE,

TRUNK AND VALISE MANUFACTURER, 337 SANSOME ST., under Tehama House. Trunks and Valises, Wholesale and Retail; Fine Sole Leather Trunks, Valises, and a fine assortment of LADIES' TRUNKS constantly on hand. Trunks covered and repaired. au10

HEPBURN & PETERSON'S.

AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION OF THE Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos. 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

nov5 3m* HEPBURN & PETERSON.

Removal.

OFFICE OF THE PACIFIC METALLURGICAL OFFICE IS REmoved to 509 Sacramento street. Having enlarged our works at North Beach, we are now enabled to reduce from 10 to 15 tons of Silver or Gold rock per day.

Gold and Silver ore, and Sulphuret Assayers', or Silversmiths' sweepings reduced or purchased.

Copper Ores—Highest market rates advanced in cash, for Shipments. S. C. BRADSHAW, Agent,

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REYNOLD'S

Patent Cut-Off and Governor,

For Steam Engines.

127 of these Invaluable Machines

ARE NOW IN USE

In California and Nevada Territory, giving a perfectly regular motion and

Saving 20 to 75 per cent of the Fuel.

Steen's Improved Governor

IS THE CHEAPEST, SIMPLEST AND QUICKEST TO ACT AND least liable to get out of Order of any Governor in use. It can be seen in operation at the Golden State Iron Works, at the Stone Breaker, foot of Montgomery Street and at the Sugar Refinery, 8th Street, San Francisco.

Steam Engines, Boilers, Pipes,

Hydraulic Presses, Shafting, Pulleys, Etc., Etc., bought and sold the best market rates.

Anti-Incrustation Powder,

A sure remedy for Scale in Steam Boilers, without injury to the Iron. In use for the past EIGHT years.

☞ Machinery Made and Repaired. ☜

— Refer to —

Sugar Refinery, San Francisco,
Cottell & Co., San Jose,
L. A. Booth, Esq., Virginia City,
And 2,000 others in the United States.

E. T. STEEN.

1-1f Nos. 37 & 39 Fremont Street and 42 & 44 Beal Street.

SQUARZA'S PUNCH.

FIRST PREMIUM

AT THE SACRAMENTO AGRICULTURAL STATE FAIR FOR THE YEAR 1862.

ALSO; FIRST PREMIUM

At the San Francisco Bay District Agricultural Fair, 1862.

Manufactory, Wholesale and Retail,

No. 44 Leidsdorff street, opposite the What Cheer House,

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THEODORE KALLENBERG,

Maker of Models for Inventors.

MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.

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Ore Bags.

10 000 HAND SEWED GOLD AND SILVER ORE BAGS, 100 lbs each. 15,000 Chicken Gunny Pocket Bags, suitable for Copper Ore, 125 lbs each. For sale in lots, by

REYNOLDS, HOWARD & FORD,
11v8-m 313 and 315 Davis Street, San Francisco.

Owen's River Canal Company.

CAPITAL STOCK.....$1,000,000.

10,000 Shares.....$100 per Share.

A PORTION OF THIS STOCK IS NOW OFFERED TO THE PUBlic, and recommended as an Investment.

Full Paid and Unassessable Stock,

Also Assessable Stock, can be obtained of A. J. DOWNER & CO., the authorized Agents of the Company,

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President.....R. S. WHIGHAM.
Secretary.....W. FISK HITCHCOCK.
Treasurer.....MONTGOMERY GODLEY.
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R. S. WHIGHAM, formerly of Whigham's Mill,.....Nevada City.
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Office of the Company 328 Montgomery Street. j1tf

JOHN SCOTT,

METALLURGIC CHEMIST,

— and —

ASSAYER OF ORES, MINERALS AND METALS,

No. 507 Jackson Street, above Montgomery, San Francisco.

WORKING ASSAYS MADE ON LARGE OR SMALL QUANTIties of Ore by the most approved methods, and instructions regarding the reduction of them, in general, given. Assaying of Ores, etc., taught, either by the wet or dry method. Silver Ores reduced by means of Electricity.

☞ Terms moderate, and all results guaranteed. 11v8-m

Geo. A. Metcalf. D. S. Hutchinson

METCALF & HUTCHINSON'S

PHOTOGRAPHIC GALLERY,

650 Washington St. Three doors below Kearney, San Francisco.

HAVING REFITTED THE ABOVE ROOMS THE FIRM ARE now prepared to furnish the public with a superior style of Picture, at a lower price than ever before offered in the city.

CARD PICTURES.

As we have every facility for producing these beautiful pictures in all their different varieties, we have reduced the price to

THREE DOLLARS PER DOZEN!

Large sized Photographs $3—Extra copies $1 each.

AMBROTYPES in all Styles and Prices.

Old Pictures copied with care and accuracy, in any style desired. Particular attention paid to pictures of children.

Pictures painted in Oil or Water Colors, and retouched in Indian Ink by a competent artist. aug

Billett Gold and Silver Mining Company—Office, 509 Clay street, San Francisco, California, April 16th, 1864.—Whereas the Board of Trustees of the Billett Gold and Silver Mining Company, at a meeting duly called and held on the 5th day of March, A. D. 1864, directed, by vote, that an assessment of twelve and one-half (12½) cents per share be, and the same was thereby levied and assessed, on each and every share of the capital stock of the said Billett Gold and Silver Mining Company, payable immediately, in gold and silver coin of the United States, and that the Secretary of the said Billett Gold and Silver Mining Company sell the delinquent stock, first advertising the same for thirty (30) days, according to law, after causing notice of said assessment to be published according to law and the by-laws of the said Company; and whereas notice of said assessment has been published according to law and the order aforesaid, and the following named shareholders have made default in the payment of said assessment in the number of shares held by them, and set against their names respectively, as follows—to wit:

	Shares.	Amount.
A. Bryant	149	$18 63
Levi Lee	30	3 75
James Lefferts	5	62
M R Miller	20	2 50
A T Nesbitt	10	1 25
James Billett	217	27 13
C A Moore	278	34 75
Josiah Butterfield	262	32 75
O H Hoag	20	2 50
W H White	42	5 25
J J Parkor	5	53
W B Emerson	85	10 62
C Sherman	260	32 50
Levi Edwards	25	3 13
T G Cockrill	4	50
Mary A Fitch	5	63
James W Beavers	50	6 25
F J Beaumont	354	44 25
W H White	50	6 25
E J C Crow	10	1 25
Lizzie Nichols	12	1 50
Thomas J Isbell	50	6 25
Isaac N Crosby	50	6 25
C M Beebe	25	3 13
James Hamilton	82	10 25
John H Fowler	12	1 50
Whitehead Fowler	10	1 25
B F Nickerson	188	23 50

Now therefore, under and in pursuance of law and the order aforesaid, notice is hereby given, that so many of the shares standing in the names of the persons above mentioned respectively, as will be necessary for the payment of the assessment aforesaid, together with the expenses of advertising and other expenses of the sale, will be sold, according to law and the by-laws of the said Billet Gold and Silver Mining Company, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, in the city and county of San Francisco, California, on WEDNESDAY, the 18th day of May, A. D. 1864, at 11 o'clock A. M. of that day, unless said assessments, with accruing charges, are previously paid. By order of the Board of Trustees. (16-4t) D. B. FRANCIS, Secretary.

Mechanics Gold, Silver and Copper Mining Company's Office No. 322 Front street, San Francisco, April 16, 1864. Notice is hereby given, that in accordance with the laws of the State of California, and the by-laws of said Company, and an order duly made by the Board of Trustees of the Mechanics Gold, Silver and Copper Mining Company, there will be sold at Public Auction, by Jerome Rice & Co., 327 Montgomery street, San Francisco, on WEDNESDAY, May 18th, 1864, at 11 o'clock A. M., to the highest bidder, for cash, in United States gold coin, so many shares of the stock of said Company, standing in the names of the following persons, or shareholders, as will be necessary for the payment of assessment No. 4, duly levied thereon, and still remaining due and unpaid, together with expenses of advertisement and all other expenses of sale, to wit:

Names.	No. Cert.	No. Shares.	Amount.
Fanny Mott	167	10	$0 50
F A Kimball	156	50	2 50
A Schwartz	—	10	50
H D Wetemore	part of 277	10	50
Geo Tait	196	10	50
A A Sanford	427, 28	10	50
F Gebhardt	235	5	25
Geo T Russell	—	40	2 00
S W Kimball	251	10	50
R G Francis	268	2	10
J W Bell	part of 233	5	25
J Smith	" 242	1	5
J S Beardsley	" 29	5	25
Loring Robertson	" 313	8	40
J P Sheldon	" 115	5	25
H Wassels	213	5	25
W McCreary	232	15	75
E Swift	257	5	25
F M Kimball	252	10	50
John Ravekes	206	10	50
C Schreiber	292 to 295, 322, 323	95	4 75
Fred Carson	343	5	25
C Scheper	310	5	25
Mrs M Lillard	361	25	1 25
Mrs E G Catter	336	5	25
G Obenauer	337	5	25
A F Olney	345	10	50
E Stratton	109 to 111, 113, 114	130	6 50
Chas Rbine	392	100	5 00
J H Turney	126	200	10 00
W B Marshall	305	40	2 00
A W Stratton	350, 351	200	10 00
Mrs M A Crosley	420	20	1 00
Geo Curry	138	25	1 25
J F Smith	228, 229	100	5 00
A H Stewart	132, 302	75	3 75
Louis Connor	278, 279	100	5 00
C B Wetmore	—	10	50
S D Cary	4, 312	35	5 25
Mary Murphy	147	20	1 00
Silas Fuller	106, 107	50	2 50

By order of the Board of Trustees.

A. B. WINEGAR, Secretary,
15-4t No. 322 Front street, San Francisco.

Mammoth Gold and Silver Mining Company, Rock Spring District, San Bernardino Co.

Notice is hereby given that at a Meeting of the Board of Trustees of said Company, held on the 13th day of April, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on the 15th day of April, 1864, in United States gold and silver coin, to the Secretary, or to Wm. H. Hilton, Superintendent, at the mine.

Any stock upon which said Assessment shall remain unpaid on the 14th day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 28th day of May, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

GEORGE BOWER, Secretary.
Office, No. 611 Clay street, San Francisco. 15-td

Two Good Canvassing Agents can find profitable employment by calling at this office. None but active and competent need apply.

Saxon Copper Mining Company, Calaveras Co., Cal.—Notice is hereby given that in accordance with the laws of the State of California and an order duly made by the Board of Trustees of this Company, there will be sold at Public Auction at the office of the Company, at Copperopolis, on the 10th day of May, A. D. 1864, at three o'clock, p. m. of that day, to the highest bidder, for cash, in United States gold coin, so many shares of the capital stock of said Company standing in the names of the following shareholders as will be necessary for the payment of the assessments duly levied thereon by the Board of Trustees, together with the expense of advertisement and sale, unless said assessment and charges are paid before said sale.

Names.	No. Certificates.	Shares.	Amt.
Thomas H. Binnix,	3	50	23 50
Thomas H. Binnix,	63	50	23 50
Thomas H. Binnix,	64	100	47 00
Thomas H. Binnix,	75	50	23 50
Thomas H. Binnix,	76	10	4 70
Thomas H. Binnix,	77	10	4 70
Thomas H. Binnix,	78	10	4 70
Thomas H. Binnix,	79	10	4 70
J. H. Titcomb,	24	100	47 00
J. H. Titcomb,	27	25	11 75
J. H. Titcomb,	28	25	11 75
A. D. Titcomb,	84	25	11 75
J. S. Coleman,	45	25	7 50
J. S. Coleman,	46	25	7 50
J. S. Colcman,	47	25	7 50
J. S. Coleman,	48	25	7 50
J. S. Coleman,	50	10	3 00
J. S. Coleman,	51	10	3 00
J. S. Coleman,	52	10	3 00
J. S. Coleman,	73	5	1 50
J. S. Coleman,	74	5	1 50
M. R. Garrard,	87	50	44 50
M. R. Garrard,	88	50	44 50
M. R. Garrard,	89	50	44 50

By order of the Board of Trustees.
16-4t L. HONIGSBERGER, Sec'y.

Pride of Nevada Mining Company, Reese River Mining District, Nevada Territory.—Notice is hereby given, that, in accordance with the laws of the State of California and the by-laws of the Pride of Nevada Mining Company, there will be sold, at Public Auction, to the highest bidder, at the auction rooms of John Middleton & Son, No. 400 Montgomery street, San Francisco, on WEDNESDAY, May 18th, 1864, at 12 o'clock M., so many shares of the capital stock of said Company, standing in the names of the following persons, as will be necessary for the payment of the delinquent assessment due thereon, together with the expense of advertisement and the other expenses of the sale—to wit:

Names.	Shares.	Amt. due.
Charles S. Eaton,	64	$32
S. C. Blake (J. Lippman),	64	32
S. Goldstein,	64	32
George W. Chapin,	64	32
Joseph Lippman,	64	32
J. Robinson,	64	balance, 12
J. D. Enas,	64	balance, 12
Isaac Lippman,	64	balance, 12
A. W. Rice,	54	balance, 12
Joseph Figel,	64	balance, 12
William Stringer,	64	balance, 12
T. Prichard,	64	balance, 12
F. S. Hunter,	64	balance, 12

By order of the Board of Trustees. H. B. CONGDON, Sec'y.
16-4t 520 Washington street, Room 3.

Golden Rule Mining Co., of Tuolumne County, Cal —Notice is hereby given, that there is delinquent upon the following described stock, on account of assessment levied on the 3d day of March last, and assessments levied previously thereto, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certs.	Shares.	Amt.
W. F. Herrick,	159	50	$25 00
W. F. Herrick,	160	50	25 00
W. F. Herrick,	161	50	25 00
W. F. Herrick,	188	25	12 50
W. F. Herrick.	189	25	12 50
W. F. Herrick,	229	22 2-9	11 13
L. D. Ingoldsby (2 assts),	144	50	50 00
L. D. Ingoldsby (2 assts),	145	50	50 00
L. D. Ingoldsby (2 assts),	264	11 1-9	11 12
Jas. Boland (2 assts),	86	25	25 00
Jas. Boland (2 assts),	235	2 7-9	2 75

And, in accordance with law, and an order of the Board of Trustees, made on the 12th inst., so many shares of each parcel of said stock as may be necessary, will be sold by Jerome Rice & Co., public auctioneers, at their salesroom, No. 327 Montgomery street, San Francisco, on WEDNESDAY, the 18th day of May next, at 11 o'clock A. M., to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

JOHN B. RUSSELL, Secretary.
16-4t Office, 430 Jackson street, San Francisco.

Enterprise Tunnel & Mining Company, Reese River Mining District, Lander county, N. T.—Notice.—There is delinquent upon the following described stock in the above named Company, on account of assessment levied on the 23d day of October, 1863, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	Certificates.	Shares.	Amt.
Chas. Smith,	Nos. 81, 82, 83, 84	100	$25 00
A. Hindenheimer,	Nos. 86, 87	50	12 50
Otto Kapuz,	Nos. 55, 56, 57, 58, 59	50	12 50
S. Rezzel,	Nos. 92, 93, 94, 95	100	25 00
W. Blum,	Nos. 96, 97	50	12 50
Daniel Fonly,	Nos. 98, 99	50	12 50
G. Schmidtbury,	No. 39	10	2 50
A. Lamb,	No. 38	15	3 75
C. W. Skinner,	Nos. 108, 109	100	25 00

And in accordance with law, and an order made by the Board of Trustees on the 12th instant, so many shares of each parcel of said stock as may be necessary will be sold, at the office of the Company, in the city of San Francisco, at 12 o'clock M., on SATURDAY, the 14th day of May, 1864, to pay said delinquent assessments thereon, together with costs of advertising and expenses of sale.

J. F. STIRLING, Secretary,
No. 502 Montgomery street, Room No. 1, 3d floor.
San Francisco, April 16, 1864. 16-td

Butte Gold and Silver Mining Company, Reese River Mining District, Lander Co., N. T.

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 16th day of April, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on the 16th day of May, 1864, in United States gold and silver coin, to the Secretary, or to Dr. A. K. Stearns, Superintendent of the mine, at Austin, N. T.

Any stock upon which said Assessment shall remain unpaid on Saturday the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 4th day of June, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale. By order of the Board of Trustees.

J. F. STIRLING, Secretary.
Office, 502 Montgomery street, San Francisco. 16-4t

Mount Zion Gold, Silver and Copper Mining Company, Clayton District, Contra Costa county, Cal.

Whereas, the Board of Trustees of the Mt. Zion Gold, Silver and Copper Mining Company did, on the 5th day of March, 1864, levy an assessment (No. 11) of twenty-five cents upon each and every share of the capital stock of said Company, legal notice of which assessment has been given to the Stockholders thereof; and whereas, the said Board of Trustees did, on the 5th day of April inst., declare delinquent all of said assessment then remaining unpaid, and order the same advertised for sale, in accordance with the laws of the State and the by-laws of the Company; therefore, notice is hereby given, that there will be sold, at the office of the Secretary, No. 240 Montgomery street, on MONDAY, the 16th day of May, 1864, at 12 o'clock M., a sufficient number of the shares of the capital stock of said Company, standing in the names of the following Shareholders respectively, to pay the said assessment, together with the costs of advertising and sale of the same, unless said assessments and costs of advertising shall have been sooner paid, to wit:

Name.	No. Cert.	No. Shares.	Amt. Due.
Paul Shirley	150	100	$25 00
Paul Shirley	161	25	6 25
Paul Shirley	162	25	5 25
Paul Shirley	163	25	5 25
Paul Shirley	164	25	6 25
T B Storer	186	50	12 50
T B Storer	187	50	12 50
T B Storer	188	25	6 25
T B Storer	189	25	6 25
T B Storer	190	20	5 00
T B Storer	191	20	5 00
S Barrow	72	20	5 20
S Barrow	73	20	6 20
S Barrow	75	20	5 20
S Barrow	76	20	5 20
S Barrow	138	5	1 85
R Hall	122	10	2 50
R Hall	125	5	1 25
R Hall	130	15	3 75
R Hall	237	20	5 00
R Hall	257	100	25 00
R Hall	260	50	12 50
R Hall	274	25	6 25
R Hall	281	10	2 50
R Hall	282	10	2 50
R Hall	283	15	3 75
R Hall	315	2	50
F P Green	44	25	6 25
F P Green	45	25	6 25
F P Green	77	25	6 25
F P Green	112	25	6 25
P M Bowen	15	10	2 50
P M Bowen	16	10	2 50
P M Bowen	17	10	2 50
P M Bowen	18	10	2 50
P M Bowen	19	10	2 50
James Cyrus	37	24	6 25
James Cyrus, tenth assessment	37	25	6 00
H H Byrne	127	25	6 25
H H Byrne	128	25	6 25
J J Haley	272	188	46 50
E J Blanding	142	200	50 00
R H Blanding	200	200	50 00
J F Williams	25	5	5 05
E H Baxter	180	10	2 50

A. G. WOOD, Sec'y.

Laurel Hill Mining Company, of Tuolumne County, California.

Notice is hereby given, that there is delinquent upon the following described stock, on account of assessment levied on the 13th day of February last, and assessments levied previously thereto, the several amounts set opposite the names of the respective Shareholders, as follows:

Names.	No. cert.	No. Shares.	Amt. due.
M Thayer	34	25	$12 50
M Thayer	59	25	12 50
M Thayer	64	25	12 50
M Thayer	65	20	10 00
M Thayer	72	5	2 50
Geo Wheeler	75	25	12 50
Geo Wheeler	77	25	12 50
G S Higgins	133	25	12 50
G S Higgins	134	25	12 50
G S Higgins	189	25	12 50
G S Higgins	190	25	12 50
W Bosworth	76	25	12 50
W Bosworth	77	25	12 50
J J Larue	169	10	5 00
J J Larue	222	20	10 00
J J Larue	223	20	10 00
E A Rowe, three assessments	154	5	7 50
F E Webster	171	25	12 50
F E Webster	183	5	2 50
A G Turner	138	50	25 00
A G Turner	140	50	25 00
H H Webster	172	50	25 00
J H Webster	204	25	12 50
T H Goodman	57	25	12 50
E Dubedat	73	5	2 50
F Wolf	89	10	5 00
M Weil	127	5	2 50
P B Cornwall	142	5	2 50
J Hamblin, three assessments	153	20	30 00
J A Rawson	214	20	10 00
F W Gross	245	5	2 50
F W Gross	246	5	2 50
F W Gross	247	5	2 50
F W Gross	248	5	2 50
F W Gross	249	5	2 50
F W Gross	250	5	2 50
F W Gross	251	2	1 00

And in accordance with law, and an order of the Board of Trustees, made on the 13th inst., so many shares of each parcel of said stock as may be necessary will be sold by Jerome Rice & Co., public auctioneers, at their salesroom, No. 327 Montgomery street, San Francisco, on WEDNESDAY, the 18th day of May next, at 11 o'clock A. M., to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

JOHN B. RUSSELL, Secretary.
Office 430 Jackson street, San Francisco.

Wide West Copper Mining Company, Office 645 Clay street, San Francisco, March 26th, 1864.—Notice is hereby given that an assessment, No. 3, of thirty cents per share was this day levied on each and every share of the Capital Stock of the Wide West Copper Mining Company, payable in U. S. Gold Coin, to the Secretary at the Office of the Company or to J. M. Piaz, Superintendent Copperopolis. By order of the Board of Trustees.

14-4t M. G. ELMORE, Sec'y.

Walipi Gold and Silver Mining Company, Moss Lode, San Francisco District, Arizona.—Notice is hereby given, that the Board of Trustees of the Walipi Gold & Silver Mining Company, at a meeting of said Board held March 21st 1864, levied an assessment of fifty cents on each and every share of the Capital Stock of said Company, said assessment payable immediately in Gold Coin to the Secretary at the Office of the Company, No. 620 Washington Street, Room No. 3.

13-5t W. AUGUSTUS KNAPP, Sec'y.

Revere Gold & Silver Mining Company, Reese River Mining District.—Office No. 22 Lyceum Building, San Francisco February 23d, 1864.—Notice is hereby given that an assessment of Twenty-five cents per share was this day levied on each and every share of the Capital Stock of the above named Company, payable immediately in U. S. Gold Coin, to the Secretary, at the Office of the Company. By order of the Board of Trustees.

15-4t. H. C. KIBBE, Sec'y.

Mining and Scientific Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

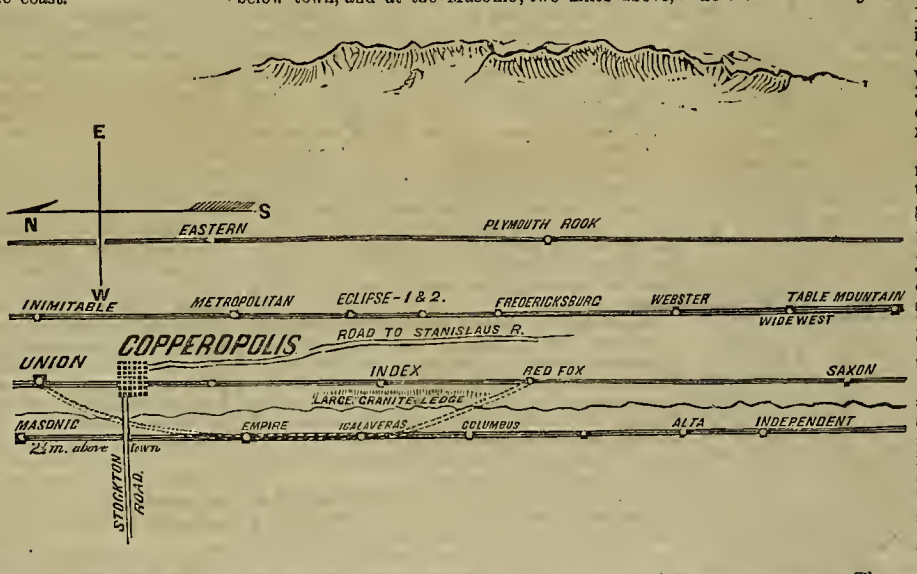
VOLUME VIII. SAN FRANCISCO, SATURDAY, APRIL 23, 1864. NUMBER 17.

Contents:

No. 17—April 23, 1864.—Copperopolis Copper Veins—Illustrated; Ziroogel's Method of Extracting Silver; Santa Catalina Island; Letters from Reese River; Owen's River; City Stock Reports—Sales, Bids and Prices Asked; Washoe Sales; Reese River Stock Board; Mining Gossip; How Some People Get Rich; Mechanical Department—More About Generating Steam; Explosion of Steam Boilers; Artificial India Rubber; Humboldt Mines; New Patents; Safe Hook; Mining Share Market; Howell's Crusher; Reese River Mines, No. 2; The Kohler Brothers and Other Mines; Mining Laws Passed by the Last Session of the Legislature; Washoe Mining Items, Incorporations, etc.

Copperopolis Veins, Calaveras County, Cal.

Having given notice that our first page is at the service of the public, for the illustration of mines, machinery, etc., we give place to-day to the annexed diagram, illustrative of a theory entertained by many with regard to the system of mineral veins developed in Copperopolis. The projection of mineral veins, in connection with the location of claims upon the same, is a study of much practical importance, and one which, when attempted by incompetent parties, is often attended by immense loss of capital, as well as one of the most fruitful sources of litigation on the Pacific coast.



Until quite recently the generally received theory of the Copperopolis copper mines has been that there was but one vein passing through the valley, with, perhaps, here and there an existing spur. Some few months since, certain parties conceived, from developments recently made, there must be four parallel veins; and that the original locators of the Union Mine, in running out their ground had deflected from the true course of the vein, following the dotted line represented in the diagram, until they struck the vein next parallel and to the west.

There is evidently much that is reasonable in the theory above represented, nor can it be denied the question is one of much importance to all parties holding mining interests in that section. If there are less than four veins running through the valley, a large number of companies cannot possibly have any lead; while if there are four, the chances of all are multiplied for a successful issue to their development.

In this connection we would state, in order to make the above diagram intelligible, that the engraver has been obliged to greatly condense the territory represented longitudinally, as compared with its breadth. The reader will bear in mind that the region of country represented is some five or six miles in length by about one half a mile or so in breadth. It will, therefore, be seen, that the variation represented by the dotted line, should really present but a slight deflection from a straight line, and is only perceptible upon the ground by the most careful scrutiny or perhaps accurate survey.

If according to the old theory of there being only one, or at the most two veins in this system instead of four, the inconsistency and difficulty would be very little diminished. Take, for instance, the location of the Empire and Plymouth Rock, as illustrating the absurdity of one vein—the Columbus, Red Fox, Fredericksburg and Plymouth Rock, as illustrating the absurdity of two. If the theory, however, of four veins be admitted, then their prospect of future success at once assumes a tangible and important shape. The fact of there being four veins at Copperopolis appears to be fast becoming the prevailing idea, and it is certainly strengthened if not confirmed by the additional fact, that north, up the valley, to John Bull District, and south, down to the Crimea House, (the correct linear course of the Copperopolis system,) there are four distinct veins appearing all the way in both directions. If at Copperopolis anything further were wanted to prove the old survey wrong, it is the opening of another claim *below* the Columbus and above the Alta, with good prospects of success.

Taking up the argument, as it presents itself to us by the accompanying diagram, the old location of the Union, immediately south of the town, certainly appears wrong; but that does not make the western vein or portions of it less valuable *per se*. There can be no doubt that the western vein as it shows itself at the Calaveras and Empire, immediately below town, and at the Masonic, two miles above, is large, healthy and strong. Of its intrinsic value ultimately there can be little doubt. All that is claimed, as we understand the matter, is, that as a question of science, alone affecting the value of other claims in the vicinity, it cannot possibly be on the original Union or Red lead, and that as the Inimitable goes to the Metropolitan, Eclipse Nos. 1 and 2, the Webster, Wide West, and Table Mountain, and perhaps as a general thing the best vein of the four, so the Union goes to the Index, Red Fox and Saxon, and the western vein from the Empire runs to the Columbus, the Alta, Independent, and off west of the Saxon.

From what has already been said, it will be perceived that a question of a single or multiple system of veins has arisen in Copperopolis, quite similar in character to that which for a long time existed in Washoe, with regard to the Comstock lode. The more recent developments tend strongly to show the latter theory to be correct. In Virginia City, indeed, the theory has been fully demonstrated in reference to the Comstock lode, as will be seen from the following paragraph, which we clip from the *Territorial Enterprise* of the 8th instant:

"According to the evidence of one of the officers of the Latrobe Tunnel Company, given in the District Court to-day, in the North Potosi and Savage case, we understand that this great tunnel has cut through (commencing in the vicinity of the Ophir or main Comstock ledge,) four distinct leads; the fourth, or last one cut into, being the best. The first veins appear to be a good deal broken up and mixed with clay and porphyry. As the Tunnel Company have not allowed visitors to enter their tunnel, and have always kept pretty mum about their underground proceedings, this may be set down as news from the 'dark profound.'"

This theory in reference to Copperopolis will soon be proved. The Index, located upon this principle, is regarded as very valuable, and in conformity therewith arrangements have been completed for sinking a shaft one hundred feet deep. It is now owned principally by San Francisco and Washoe capitalists, who are determined to open the claim as rapidly as possible.

An American Crushing Machine in England.—The London *Mining and Smelting Magazine*, for March, makes the following notice of Blake's Crushing Machine, which was illustrated in No. 3 of the present volume of the Mining and Scientific Press:

At the anniversary meeting of the Institution of Mechanical Engineers held at Birmingham on January 28th, a paper was read by Mr. J. Lancaster, on a machine for breaking limestone and ore, in use at Kirkless Hall Ironworks. This machine, the invention of Mr. Blake, of Connecticut, consists of a hopper, in which the stone is broken between a pair of jaws, one fixed in the frame of the machine, and the other vibrating on a center thro' a short distance, worked by a long lever, moved by a crank-shaft driven by steam power. The crushing faces of the jaws are grooved with alternate corrugations, and the vibrating jaw is suspended at a small inclination to the fixed jaw, and is pressed forwards a short distance at each stroke, by which a very powerful crushing action is obtained. The frame of the machine is of cast-iron, of great strength. The material to be broken is fed in at the top between the jaws, by which it is gradually crushed and broken, until it is reduced to pieces small enough to fall out at the bottom of the jaws, the space between the jaws at the bottom being adjusted according to the size to which the stone is required to be broken. The machine is driven at about two hundred strokes per minute, and the quantity of limestone broken is about 100 tons per day or ten tons per hour. It is found to have special advantages in its strength of construction, and in the small amount of wear and tear, in consequence of the parts subjected to the severe crushing strain being simple pressure pieces of cast iron, of an advantageous form for strength, and having large bearing surfaces with small extent of motion upon them. The only parts exposed to wear are the two plain cast iron jaws, which are readily replaced. [Machines of this description, termed Macadamizers, are in general use.—Ed.]

Ziervogel's Method of Extracting Silver.

Two weeks ago we gave a description of Augustin's process of extracting silver. We now place before our readers the process introduced by Ziervogel. The former process has recently been laid aside at the Mansfield Copper Works, the latter being substituted in its stead. This process is divided into three distinct operations, as follows:—1st. The calcination of the ground copper-regulus. 2d. The lixiviation and formation of the silver precipitate. 3d. The drying and refining of the silver. The description of this process, which we give below, was prepared by R. Wagner, for the *Chem. techn. Jahresber*, vii. Jahrg :—

I. Calcination of the Ground Copper-regulus.—This, which is effected in double-bedded reverberatory furnaces, is the most difficult portion of the whole process, and is divided into two stages: 1st, the oxidation of the sulpbides, that is, their conversion into sulphates; and 2nd, the decomposition of these sulphates at a higher temperature, so that FeO,SO^3 decomposes first, then ZnO,SO^3, and lastly CuO,SO^3, while the AgO,SO^3 remains unaltered.

In the first stage, the ore is charged to the upper bed, which has no fire-place, but which is heated by the furnace below. The charge is composed of 497 lbs. (German) of ground copper-regulus; 50 lbs. of the richer residues of the desilverising vats (that is, those containing more than 18 grans—17 grains English—per centner); 37 lbs. of lixivated regulus, clotted together during former calcinations; 4 lbs. of silver scrapings that have been lixiviated and roasted three times; and 4 lbs. of the lixiviated bed of the furnace. Half the richer residues are first spread evenly over the upper bed, since, being almost pure CuO, they do not readily adhere; upon this, half the ground regulus is charged; then the clotted regulus and the silver scrapings; then the remaining half of the richer residues; and lastly, the other half of the ground regulus. The charge is regularly stirred for from four to five hours, to prevent the agglomeration of the sulphides, and to expose every portion to the air. After this, 20 lbs. of coarse lignite slack are spread evenly over the charge, the whole being then well mixed by stirring. The lignite is soon completely ignited, and after its flames are extinguished the charge is passed through the communication in the floor on to the under bed, during which operation the dampers of the flues must be completely closed. On this lower bed the charge continues to be stirred for from one and a-half to two hours, without any addition of fuel—an operation which is called the cooling, and which effects the complete oxidation of the ground regulus. After one hour's stirring, the charge is turned over for the first time, and then again at the end of another hour, when it is a dark red heat. A test sample now taken shows scarcely any traces of iron, but a considerable proportion of copper and silver; while one taken immediately after the charge was brought on the lower bed showed (when dissolved in water with chloride of sodium) a greenish color, without any precipitation of silver. The turning-over is effected by heaping up in the middle of the furnace the charge of one-half of the hearth, on which the charge on the other half is then spread ont, the heap being afterwards spread over the second half.

The second stage, or dead-roasting, by which the sulphates are partially decomposed, is now commenced, the heat of the surface being slowly raised to a high temperature, while the charge is kept well stirred all the time. On the completion of the roasting, which is first effected near the fire-bridge, a test sample shows a bright blue color, and gives a considerable precipitate of chloride of silver. The completely roasted charge is now riddled, from 50 lbs. to 60 lbs. of which remains behind as clotted ore. Three men are employed at the lower bed, and two at the upper. The sulphur fumes are very injurious to the breathing of the men, which increases the difficulties of working.

Chemistry of the Process.—The ground copper regulus consists, essentially of Cu^2S, FeS^2, Pb^2S, ZnS, AgS, with MnS, NiAs, CoAs, SbS^3, AsS^3. The FeS^2 first oxidises in the upper bed, upon which SO^2 is given off, while FeO,SO^3 remains. Similarly CuS oxidises to CuO,SO^3. AgS is not altered in the upper bed; nor could it indeed, by itself, be converted into AgO,SO^3 even by the most careful roasting. This can be effected, however, in the presence of the sulphides of other metals, through the decomposition of their sulphur salts, and the consequent liberation of sufficient O to allow of the conversion of the AgS into AgO,SO^3. The heat arising from the combustion of the lignite decomposes the FeO,SO^3, while the CuO,SO^3 and AgS remain unaltered; for, of these three metals, the most easily oxidisable is the Fe, then the Cu, and last the Ag. The FeO of the decomposed FeO,SO^3 oxidises to Fe^2O^3, and the Cu^2S passes completely into CuO,SO^3. At this stage of the process the under hearth is heated, when the CuO,SO^3 is decomposed into SO^3 and CuO, which decomposition however is not complete, as the AgO,SO^3 may now perhaps begin also to decompose.—So much for the roasting process, after which follows the lixiviation process. The mass now to be treated contains the Ag principally, as AgO,SO^3—the Cu as CuO—and the Fe as Fe^2O^3: it will be well if all the FeO is oxidised to Fe^2O^3, for FeO readily takes up the AgO,SO^3,—both as O as well as SO^3—leaving the metallic silver behind.

II. Lixiviation, and Formation of the Silver Precipitate.—The lixiviating apparatus consists—of a reservoir for receiving the solution; of a vessel for heating the water; of lixiviating vats; of settling or clearing tanks; of precipitating vats; and of a pumping reservoir with its apparatus for raising the solution. These are arranged in terraces over each other, so that the solution may pass readily from one to the other.

The reservoir for receiving the solution is of wood, sheet-copper, or lead, and is separated into two compartments, each of which has an opening that can be closed up; so that the operation may not be interrupted if a portion of the reservoir required cleaning or repairing. It has a capacity of 500 Hanoverian cubic feet (450 cubic feet English); and leaden pipes extend from the bottom of it for the purpose of conveying fresh solution into the lixiviating vats, communicating with each of the latter by a vertical pipe with a tap.

The vessel for heating the water has a capacity of from 200 to 300 cubic feet Hanoverian (173 to 260 cubic feet English). It is heated by a worm pipe supplied with steam from the boiler, which has two pipes—one near the bottom, leading to the lixiviating vats, and the other to the reservoir for receiving the solution.

The lixiviating vats, which are 26½″ high, are nearly cylindrical in form, having a diameter of 27½″ at the top (including the thickness of the sides 1½″) and 25½″ at the bottom. Each vat has a double bottom—the upper one being perforated and serving as a filter. This perforated filter, which is 19″ down, is made up of two parts;—the under part, a perforated wooden disc 23″ in diameter, exactly fitting into the vat, with ½″ holes bored 1″ apart, through both the planks and the cross-pieces that hold them together and tightly packed with tow; and the upper part, of basket-work, with a linen disc covering 25″ in diameter. There is 2″ of space from the bottom of this filter to the bottom of the vat, in which space there is a tap at the side. Ten such vats are in constant work, and are ranged in a row on the top terrace. The taps from these vats discharge themselves into a wooden funnel which conveys the solution into the settling tanks.

The settling or clearing apparatus consists of a rectangular tank, partitioned lengthways into two compartments held together by an iron frame-work, which can be tightened from time to time by wedges. An opening along the partition, lengthways, allows the clear solution to pass after settling from the back into the front compartment, from which it passes through a tap into the silver precipitating vats on the second and third terraces.

The precipitating vats are arranged similarly to the lixiviating vats, only smaller. The hight is 23″, and the greatest diameter is 23″; space between the two bottoms 1½″. From the top of the vats on the third stage the solution passes directly into the vats of the fourth, from which the almost desilverised solution passes into the pumping reservoir, out of which it is raised by machinery to be again passed through the lixiviating vats. In the vats of the third terrace there is scarcely any silver, and beautiful crystals of gypsum are found to form on the pieces of copper and on the sides of the vats.

The pumping reservoir is formed of a wooden tank placed in a brick cistern; the space between the tank and the cistern being compactly packed up with clay, brick-dust, burnt lime, or gypsum, so as to prevent the escape of the solution. The solution is lifted by a force pump into the receiving reservoir. If it is too cupriferous, it is passed over fragments of iron, and the copper precipitated, after which it flows off. The ground regulus contains from 72 to 75 per cent. of copper, and from 14 to 16 *loth* (7 to 8 oz. English) of silver in the centner (110¼ lbs. English); and the silver precipitate (cement silver) has a *Feine* of about 270 gran. The copper in the vats of the third terrace is cleared from the silver precipitate every twenty-four hours, and that in the fourth terrace every six days.

The process of lixiviation is as follows: 497 lbs. of well roasted ground regulus are introduced (hot, if possible,) into the empty lixiviating vat, and spread carefully over the linen filter, and over this regulus a perforated cover is laid, so that the fluid thrown upon it may be equally distributed. The tap of the vat is now opened, and water heated from 70° to 80° Cent. (152° to 176° Fahr.) is thrown over the covered regulus. After from a quarter to half an hour, this hot water is replaced by a desilverised solution of sulphate of copper, heated to a like temperature. As this solution does not contain free sulphuric acid to lixiviate the charge perfectly, ½ lb. of sulphuric acid is added, which changes the basic sulphate of silver, that is soluble with difficulty, into the neutral sulphate. When, as is usual, eighteen charges are lixiviated during the twelve hours, the 9 lbs. of sulphuric acid required for this number of charges, being first diluted with two quarts of water, is placed in a vessel over the lixiviating vat, and allowed to pass through a tap, drop by drop, into the vat. This last solution, after being heated to the necessary temperature, is conveyed through the lixiviating vats so long as it shows silver on passing, after which it is allowed to escape. The uppermost layer of the charge, 1″ thick, being the least desilverised, is scraped off and roasted again. The lixiviating vat is emptied by a copper shovel, and the residues conveyed to the drying house. If sufficiently roasted they should contain at most 1 *loth* (½ oz.) of Ag. per centner of Cu; if they contain more they must be roasted over again. After the solution has passed through the lixiviating vat, and has desilverised the AgO,SO^3, it passes into the settling vessels. Here the particles of copper carried with it are deposited, upon which the solution passes through the opening into the front compartment, from which it flows into the precipitating vat over bars of copper. During the process, the solution from all the lixiviating vats becomes mixed, so that in each precipitating vat an almost equal quantity of Ag is precipitated. The ground regulus is principally CuO and Ago,SO^3 and Fe^2O^3. The Ago,So^3 is dissolved, and CuO and Fe^2O^3 remain behind. The small quantity of CuO,SO^3 present also dissolves. In the precipitating vats, a quantity of Cu becomes dissolved, corresponding to the quantity of Ag precipitated.

III. The Drying and Refining of the Silver.—The apparatus for this purpose comprise collecting, stamping or grinding vats and washing vessels; drying kilns and a gas-generating reverheratory furnace. The collecting vat is similar to the lixiviating vats; the grinding vat is a wooden mortar with a wooden pestle. The washing vessels are of the same size and form as the precipitating vats, only they have no tap between the two bottoms, but instead a wooden pipe, having a tap at the top, goes up the washing vessel from between the two bottoms, so that the vessel is always full. The drying pans are of strong sheet copper, 19″ long, 12½″ wide, and 6″ deep, and stand in an iron stove. The silver precipitate, which is impure from the mixture of gypsum and copper, with a *Feingehalt* of 190 to 200 grm., is washed and purified in earthern pans and wooden tubs until it has a *Feine* of 268 to 270 grm. It is then refined in a reverheratory furnace, the bed of which is of wood ashes, on which from 1,500 to 2,500 marks (from about 12,000 to 20,000 ounces) can be refined at one time. The silver, cast into ingots, has a *Feine* of from 281 to 282 grm.

Important to Mining Incorporations.—We find the following in the Virginia City *Union* of the 15th inst, which would seem to demand the immediate attention of those concerned :

"We learn from the County Clerk, that out of nearly one thousand certificates of incorporation filed in his office, the trustees of not over fifty companies have filed their second oath of office, as required by an act passed by the last Legislature. It is the opinion of lawyers, who have been consulted on the subject, that such an omission would vitiate all their acts until the duty is performed. If such is the case, the failure will be a fruitful source of litigation in the future, and trustees should investigate the matter immediately.

An Owens River Test.—We have seen the solid evidence of an assay of 22½ lbs. of rock, worked in Wheeler's pans, from the Twin Brothers lode, Rubicon Company, of Keyes district. The bullion amounts to $3.08 in gold and $2.61 in silver, the yield proving at the rate of $520 per ton of $2,000 lbs. Better looking rock has since been received. It has the appearance of uniform gold and silver bearing quartz.

The Government is considering the propriety of issuing one and two cent pieces of bronze, the price of nickel being extremely high.

[Written for the Mining and Scientific Press.]

Santa Catalina Island.

This island, which has of late created so much excitement in this city, is situated between the 33d and 34th degrees north latitude, and forms one of the group of islands about the Santa Barbara channel. It is 30 miles long and averages five miles in width, running in a direction nearly due east and west. Being only some twenty-five miles from San Pedro harbor, it has long been used as a safe resort for the hide-dryers, who frequented the coast of Upper and Lower California as far back as 1824, and who made it a "locale" for the purpose of curing and preparing hides for the long passage, in those non-clipper days, around Cape Horn. The old vats that were formerly used for salting are still plainly visible, and some of the captains who used to frequent the island are now residing in San Francisco.

The appearance of the island, as viewed from the sea, gives, at first, the impression that there are two islands. This is caused by a large body of water entering into the center of it, making it a bay and one of the finest harbors on the coast south of San Francisco. It would almost seem that nature intended this bay for a naval depot for the defence and protection of the lower coast of California. At the head of the harbor a level isthmus connects the two higher portions of the island, making it a most desirable place for military barracks, storehouses, parade ground, forts, etc.

This beautiful location has already been taken up by the United States Government, and is now occupied by Federal troops, who are encamped there. The other portions of the island present the usual aspect of mineral districts—high-peaked hills, with spurs jutting from them. The out croppings show abundant varieties of quartz, soap stone and other kinds of minerals, as galena, copper, silver and gold, as well as iron.

About twelve months ago, some sailors engaged in putting ballast on board a vessel at the island, discovered in some of the rock appearances of lead. A small lot of this was sent to San Francisco, and was found, upon assay, to be rich in silver. This led to several parties proceeding thither, prospecting and taking up claims, and there are now over two hundred mines being worked in various ledges. The veins run across the island—that is, nearly north and south. On the western portion, galena, with silver, are the predominating ores to the average depth of 25 feet; below that, the galena disappears, and silver ore takes its place, assaying about $100 per ton. At the eastern part of the island copper ore is found, consisting chiefly, as far as ascertained, of the oxides and blue carbonates, specimens of which may be seen at the office of J. W. Merrill, 536 Clay street. There has not been much prospecting in this vicinity, but the developments so far indicate great richness. There is wood enough for miners' purposes, and several springs of excellent water have been found, besides which good water can be readily obtained by boring. The climate is similar to that of Los Angeles—mild and salubrious. Lying so near the coast, and so easy of access, the cost of living is about as cheap as in San Francisco. Freight is low, and the passage occupies but a short time, at an expense of from $15 to $20.

Amongst the mines now in operation may be mentioned the Argentine, situated about 200 yards from the coast. This vein is perpendicular, it being 18 inches in width at the top, and at the depth of 25 feet measures 36 inches, with a regular increase. The ore from this mine is said to average $100 per ton, by assay. The Rose Matilda is also a good mine. The ledge is five feet in width, and although the farthest from the shipping point, its value is greater in proportion. It shows a fine vein, sometimes of pure metal. The Charter Oak is also a good claim, and has a tunnel now 69 feet long. The width of the vein is five feet three inches, consisting of white quartz, thickly interspersed with the finer metals. Other mines may be noticed as pre-eminent—viz: the Gem of the Ocean, Gould & Curry No. 2, North Star, Shining Star, True American, Crystal, Jannett, Monster, Wellington, Diamond, and others. Several lots of ore, from various mines, have arrived in this city, to be re-shipped to Swansea, Wales, where the cost of extracting the metals is only from $3 to $4 per ton. Good advances have been made upon the ore by a firm in San Francisco.

The facility of extracting and cheapness of transport to this city, together with the richness of the ore, salubrity of the climate and easy access, must undoubtedly render this island very attractive, and the prospects are fair that it will be a powerful rival to the far-famed district of Washoe.

As is always the case in new mining districts, there are some men, pretending to be prospectors, who never stop long in any one place, and who give out discouraging reports. Such men expect that all that is required is to say "Open Sesame," like the robbers in the Arabian Night's tale of Aladdin's lamp, and that the talismanic name will bring the riches of the earth to its surface. They go; take a look; stop a day or two, and return naturally disappointed, as they deserve to be anywhere; they report all a humbug; the newspapers pick it up as a good item (?); stockholders read the article; get timid; dodge assessments in some manner, and thus many really profitable mines lie unworked—all this on account of some wandering, purposeless prospector, who is seeking indefinitely for something to turn up, without putting his shoulders to work out the truth.

C. P.

[Written for the Mining and Scientific Press.]

Letter from Reese River.

Messrs. Editors.—At the close of my last letter we were on Oregon Hill, in the Austin Cañon. A short distance west of the Oregon and North Star ledges are the Isabella and its eastern extension. Both claims look passably well, and work is now being prosecuted on both. The Troy is not more than 100 feet from the Isabella. The incline on it is about 40 feet in depth; the width of the ledge 10 inches. In the course of testimony elicited in a recent visit between the Oregon and Isabella companies, some witnesses were of the opinion that the Troy was merely a spur or slide, while others considered it a ledge. If it is only a streak, it is a rich one. The Florida, which has been before the San Francisco Stock Board for some time, has an incline to the depth of 90 feet. Its ledge varies in width from one inch to two feet. Workmen are now engaged on one of its shafts. The Magnolia has a shaft sunk on its ledge, which is about two feet wide, to the depth of 60 feet. The Black ledge and the Cincinnati are about to have war—in a legal way. The S. A. Douglas has a ledge of four feet in width, and an incline on it to the depth of 60 feet. The Morgan and Muncey has a ledge two feet wide and a shaft sunk to the depth of 145 feet. This ledge is considered one of the best in the district. Though the ledge makes some queer curves and angles, it continues so far a well defined ledge. There are only 400 feet in the Company's claim. About one year since a speculator agreed to furnish a mill for a one-fifth interest in the claim, depositing $12,000 as a bonus for the performance of the contract. When the ledge "pinched," he hastily concluded the speculation would prove a failure and failed to perform the contract. He thus retired from the Company minus $12,000.

A short distance from the Morgan and Muncey is the Die Vernon. It contains 800 feet, with we know not what depth of shaft, as it appears to be caving. Its ledge is, we understand, two feet wide. The Diana shaft is very close to the Die Vernon, and the ledge is generally believed to be the same. The Diana, being the older location, will be likely to get the Die Vernon's. The Seymour has a shaft upon it to the depth of 50 feet, and a ledge two feet in width. It appears to be well defined. The Parrott's ledge is four feet wide and the depth of its shaft 60 feet. The Diadem has an incline on it to the depth of 30 feet, its ledge being three feet wide. The Chippewa ledge is two feet in width; work done on it, inconsiderable. There are many other ledges or streaks in the vicinity of those we have mentioned, but no great amount of work has been done upon them.

The quartz of the ledges in the vicinity in which we have been strolling is of a blackish color, considerably rusted. As the water line is approached, which is usually at the distance of 75 feet, it changes its character, and for a time the rock yields scarcely any pay. If the ledge does not run out, and work is continued upon it, the rock becomes grayish black, like the Gould & Curry. This rock is very rich, showing sulphurets and even the sulphate of silver in abundance. Some of the rock from the North Star ledge will work $5,000 to the ton. The Mills, Post and White Consolidated are still in litigation with the Black Swan Company. These claims are on Austin Hill, as are also a few of the claims mentioned above. When next I write I will speak of them more fully, as also of the characteristics of Austin Hill ledges as compared with those of Oregon Hill. The weather has moderated much within the last two days. Everybody is gay.

X.

Austin, N. T., April 9th, 1864.

[Written for the Mining and Scientific Press.]

Owens River.

Messrs. Editors:—I have been a constant reader of all the papers published in this city for years and I find that in every paper the first thing that attracts the reader's attention is an article with a conspicuous heading, something like this:—"Reese River Correspondence," "Letter from our resident Correspondent at Owens River," "Rich and Extensive Mines found in the Desert District," "Big Strike at Aurora," etc.; and so on through the whole catalogue of mining country from Boise River to Mexico, showing most conclusively that mining is the legitimate business of the country.

We have indubitable evidence that the entire Pacific Coast from the Russian Possessions to Mexico is one continuous mining country. This fact appears to be fully realized in Europe, as well as on the American Continent. It is only within the past four years, or since the discovery of silver and copper, that the people of our own Coast began to realize the fact that our mines were a permanent thing. Until a comparatively recent period it has been the prevailing opinion of a majority of our people that the mines would soon be worked out; hence the difficulty of getting capitalists to engage in the business. But the developments which have been made the past four years, extending all through California, Nevada, Idaho, Utah, Colarado, and New Mexico, have caused every thinking man to exclaim, "The half has not yet been told."

My particular purpose in the present communication is to place before your readers some of the many advantages of the particular section of country with which I am more particularly acquainted, viz: "Owens River." I have been a close observer of all that has been said and written of all the several localities named; have talked with men from all of them, and have seen and traveled through much of California and Nevada Territory, and I must say that, in my opinion, Owens River presents more advantages to the capitalist than any other district. The climate is unexceptional—neither too cold nor too hot. For agriculture there is no better locality; the valley is extensive and the soil good, with a rapidly improving market for produce.

The mines are second to no other locality, for extent, and richness; and a water power will soon be supplied by the Owens River Canal Company, which will be equal to all demands if it should reach to five thousand stamps. This company made their first location in July, 1862, and have followed up their enterprise ever since, with that energy and industry that men only would do who had an eye to the future greatness of the country and the importance of the franchise they were soliciting. Although this company held the oldest location of water, and had their records duly made in both Tulare and Mono counties; in order that there might be no question of title, they went before the Legislature and procured a charter act, guaranteeing to them the full benefits to be derived from the improvements which they propose to make in the river, in the way of widening it suitable for logging, etc. This franchise secures to the company the key to the lumber business of the country, and will moreover enable them, as soon as their works are completed, to greatly reduce the present cost of lumber in that section.

When we examine the statistics of Washoe, showing the amount of lumber and wood consumed, some idea may be formed of the value of such a franchise.

Although the Company, as it is right they should, will receive the first benefit from this enterprise; it is nevertheless the only way in which the resources of the country can be properly and economicaly developed. The result of the enterprise will be to bring down the price of lumber, to open up a system of canal and river navigation throughout the entire valley, and to furnish an inexhaustible supply of water for irrigation and for mill power. By the aid of this cheap power, $20 rock will be made available, while $50 will not pay expenses now. Three times as many mines will be made available by this water, as could ever be wrought by the more expensive employment of steam. The best evidence of the estimation in which this region is held, is seen in the rapidity with which the mines and valley are filling up with new comers.

Mono.

April 18th, 1864.

The exports of the finished manufactures of England were in 1840 of the value of but $180,000,000 In 1863 they were $410,000,000.

WASHOE STOCK MARKET.

Review of the Week Ending April, 18, 1864.

Transactions in the Washoe Stock Market are mostly confined to Gold Hill and American Flat. We are indebted to the Gold Hill *News* for the chief portion of the following review:—

American City. The bidding on this stock has been very fluctuating, ranging from $1.50 to $5, with sales of 25 shares on Wednesday at $5¼, and 20 on Friday at $2.75 to 3.75.

Twenty shares Arizona sold at $11.50@12, being the steady figures of the preceding week. Arrington sold at $3.

On Atlas the bidding has ranged from $1@2.50, and on Argo, $4; Alpha, $600; Atlantic, $2; but no takers at those prices.

Forty shares Amador sold yesterday at $1.50@$1.87; thirty-five of Andes at $4.

Allen has been steady at from $25 to 28.

Burning Moscow has found buyers at from $86@95; for Beaver 27 was offered and refused.

Twenty shares Baltimore American sold at $46@50, the latter figures being refused on Thursday.

Twenty shares Branch Mint sold at $18.50 to 19 on Monday; $20 was bid subsequently and refused.

Twenty shares Bullion were sold on Saturday at $40 cash, and ten shares at $100, b. 30 d. Since that time $75 has been freely offered, but refused.

Ten shares Belle Vernon sold at $5.

For Cherokee 50 cents, Croesus $75; Crown Point Ravine $6, Combined Effort $8, Caledonia Tunnel $22, Central America $7, Consolidated $35, was bid; but no takers.

Thirty shares Clinton & Hubbs sold at $25@26; Crown Point Ravine found buyers at $6.50.

For Colorado $6, Crescent $5, Coppers $10, Cincinnati $2, was bid and refused.

One hundred and fifty shares Challenge sold at 50 to 75 cents.

Twenty shares Diligent sold at $4.50@5. Twenty Dou Carlos, from $5@8.

Effiugham advanced from $2 to 5, with considerable business, but dropped on Monday to $3; 380 shares have changed hands. Fifty shares of Empress changed hands at from $25 to 28.

Thirty-nine shares Fraukell sold at $8 to 11; ten shares Great Eastern at 50 cents. The *Union* reports a sale of 5 shares Great Eastern on Saturday at $5.

Gentry declined materially from its quotations of last week, having sold on Friday as low as 50 cents per foot, but advanced to $3¼ on Saturday.

Globe was in demand throughout the week at $13, but holders were not disposed to sell at that figure.

Golden Horn holds its own, 40 shares having sold at $5@6.

Sixteen shares Golden Eagle No. 1 sold at $7½ to $12.50.

Harrold & Argo, which sold last week at $13, has declined materially. Sales of 63 shares are quoted at $8.50 down to $5; closing at $6.

Five shares Imperial sold at $185; 100 Joe Jackson at $5@15.

Gould & Curry found a buyer on Monday of six shares at $4,600 per foot.

Four hundred and fifty shares Jewett & Shepard sold at $40 to $25, closing at $20. Jenny Lind has advanced a trifle; sales of one hundred and sixty shares being quoted at $3@4.

Sixty shares John A. Logan sold at 25@50 cents. Jim McClellan has sold at $1@1¼; Irving at $3.

Twenty-five shares Johanna sold at $4; 15 Keystone No. 2 at $5.50@8.50; 15 Kentucky at $5@5.50. King Solomon has met with large sales at declining rates, ranging from $4¼ to $2, and closing at $2½.

We quote Keystone No. 2 at $8; Kossuth at $10@14; Kentucky at $5; 35 shares Legal Tender at $15; 10 Lafayette at $13; 60 La Mina del Alto at $2@5, closing at the former figure.

We quote Lady Bryan No, 2 at $1½; 25 shares Miantonomah sold at $10@12; two of Mary Ann at $115; 50 Mother Lumpkins at $2.50; 40 Mayflower at $3.50; 10 Michigan at $35.

Milton has met with uniform sales at $25.

Napoleon advanced steadily till Friday with sales of 189 shares, closing on that day at $18, but dropped to $11 on Saturday, with sales of 55 shares at that figure.

New Oregon has met with considerable business, 165 shares having changed hands at fluctuating rates ranging from $8 to $18½, and closing at $14.

Forty shares of Northern Light changed hands at $2@2½; Nightingale has changed hands for $30@36.

Nevada was steady through the week at $18, with sales of 165 shares. It declined a trifle on Friday, 25 shares selling at $16.50.

Forty-five shares Oneoto have sold at greatly fluctuating rates—from $7½ to 17. It found a seller at $7½ on Saturday, and a buyer at $17 on Monday.

One hundred and eighty-five shares Pride of America sold from $8 to 14.50, closing at $8.

Sixteen shares Palo Alto sold at $3@4.

Pontiac advauced from $1.50 to 8, with sales of 47 shares at figures varying betwcen the extremes.

One hundred and twenty-five shares Roman Eagle sold at 50 cents.

Ninety-five shares of Richelieu sold at $6@9, closing at $6; 10 shares Rock Rose at $14.

One hundred and seventy shares Rock Island at at $26.50@45, closing at $37.50.

For Sweezy $50 was offered and refused.

Silver Vale was steady at $6@7, with sales of 40 feet.

One hundred and forty shares San Francisco sold at $2.50@4.50; Shelton, 5 at $6; Scott Consolidated, 5 at $1½.

San Francisco (Virginia District) sold at $5.

Sixty-five shares Tontine sold at $5@11; White & Saunders at $4; Winnegardner at $4¼; Wm. Penn, 30 shares at $15@22½; Yuba, 190 shares at $4½@5; Yolo, 9 at $14; Young Company, 30 at $1@3; Virginia Hill, 25 at $1½.

Uncle Sam found a purchaser on Monday of two shares at $1,025.

San Francisco Stock and Exchange Board.—Prices Bid and Asked.

WASHOE STOCKS.	FEET.	SHARES.	VAL.	Saturday. BID.	Saturday. ASKED.	Monday. BID.	Monday. ASKED.	Tuesday. BID.	Tuesday. ASKED.	Wednesday. BID.	Wednesday. ASKED.	Thursday. BID.	Thursday. ASKED.	Friday. BID.	Friday. ASKED.
Ophir	1,400	16,800	300	1,500	1,520	1,450	1,550	1,400	1,500	1,450	1,470	1,400	1,500	1,400	1,480
Gould & Curry	1,200	4,800	500	4,500	4,540	—	4,550	—	4,550	—	4,480	4,450	4,525	4,440	4,550
Savage	800	800	2,000	2,630	—	2,275	2,650	2,200	2,600	—	—	2,300	2,600	2,400	2,500
Chollar	1,400	5,600	800	360	400	360	400	370	400	385	410	375	420	380	415
Potosi	1,400	2,800	500	850	1,050	—	1,050	—	—	—	—	—	—	825	900
Hale & Norcross	400	800	500	—	—	—	—	—	—	600	—	—	—	600	—
Sierra Nevada	3,000	3,000	500	50	60	50	74	50	75	—	—	50	70	50	70
Nancy	2,000	800	60	92½	100	92	100	93	100	90	100	95	100	100	—
Burning Moscow	4,100	4,100	500	104	105	105½	106	102½	103¾	98	100	98	100	102	102½
North Potosi	2,000	2,000	250	63	64	70	72½	80	81	65	69	65	67	60	61
Charles Cany	1,800	1,800	30	—	10	—	—	—	—	—	—	—	—	—	—
Iowa	1,200	1,200	1,000	—	50	—	—	—	—	—	—	—	—	—	—
El Dorado	1,600	1,600	500	—	—	—	—	25	40	—	40	—	—	30	40
Norton	1,600	1,600	50	2	5	—	—	2	5	2	4	—	5	—	—
Burnside	2,800	2,800	500	—	—	—	—	12	12½	10	11½	8½	10½	8	12
Adriatic	2,700	2,700	100	—	11	—	11	—	11	8	10	—	10	—	10½
Pride of the West	1,400	1,400	100	—	75	—	—	—	80	65	75	—	72½	—	—
Imperial	184	4,000	500	162½	166	150	162¾	—	190	160	165	155	—	167½	170
Crown Point	600	1,200	100	—	—	—	1,000	—	—	—	—	—	1,000	700	950
Manhattan	—	—	—	—	—	—	8	—	—	—	—	—	—	—	8
Seneca	—	—	—	—	—	—	—	—	—	—	—	—	—	15	16
Mt. Davydson tunl.	1,000	1,000	200	2	3	—	4	2	4	—	—	—	4	—	3
Caledonia Tunnel	—	—	—	21	24	—	—	22	25	23	25	23	28	23	24
Bajazet & G. Era	4,000	4,000	300	47½	50	—	52½	—	50	—	52½	45	48	40	42½
Cedar Hill tunnel	—	1,000	100	—	—	—	—	—	—	—	—	—	—	—	—
Gold Hill Quartz Mill	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ESMERALDA.															
Wide West	1,400	1,400	2,000	22	25	22	30	23	24	24	26	23	25	22½	—
Antelope	1,200	1,200	500	—	190	140	190	150	180	—	180	—	175	—	176
Esmeralda	1,600	1,600	1,000	—	12	6	12	—	—	—	—	—	—	—	—
Real del Monte	4,400	4,400	400	84	85	76	77	68	72	70¾	72	71	72	72½	74
Utah	1,600	1,600	250	—	—	10	16	17	20	18	20	—	—	—	—
Silver Hill	3,000	3,000	500	—	—	—	—	—	11	—	—	—	—	6	7
Nevada	600	1,200	250	—	—	—	—	—	—	—	—	—	—	—	—
Falls of Clyde	6,000	6,000	100	—	—	—	—	—	—	—	—	—	—	—	—
Bamboo	600	600	500	—	35	—	—	—	40	—	—	—	—	—	—
Crockett	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12
Federal Hope	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Jenny Lind	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
COSO.															
Josephine	9,600	4,800	2,500	2	6	—	—	3¼	4	—	—	3½	4	8	3½
Willow Springs	2,700	2,700	100	—	—	—	—	—	—	—	—	—	—	—	—
Coso	2,600	3,600	600	—	—	—	—	—	—	—	—	—	—	—	—
COPPER.															
Napoleon	2,700	2,700	600	—	—	—	80	65	80	—	—	78	100	70	—
Josephine	—	—	—	—	—	—	—	1½	5	—	—	—	—	—	10
CALIFORNIA.															
Laurel Hill	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rhodes Diggings	—	—	—	6	10	—	20	—	—	1	—	—	—	—	—
Fellowes	2,500	2,500	100	—	—	—	—	—	—	—	—	—	—	—	—
Maxwell	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rock River	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Eureka	—	—	—	—	—	—	35	—	—	—	40	—	—	—	35
HUMBOLDT STOCKS.															
De Soto	1,980	1,980	100	32	45	32¾	44	31	45	35	50	20	—	30	50
Great Basin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Record of New Incorporations.

The following is a record of the names of the companies, location of the claims, and the names of the Trustees mentioned in the articles of incorporation, filed in the County Clerk's office, in this city, since our last report:—

Colonel Baker M. Co., Lyon county, N. T.; E. H. Gates, Geo. H Hopps, Alex. Macabel, F. W. Hopps, J. M. Lareo.

Gold Hill Tunnelling G. & S. M. Co., Storey county, N. T.; S. T. King, A. de Tavel, P. Torre, P. G. Venard, Chas. Sutro.

Thornburn G. & S. M. Co., Alpine county, Cal.; Thos. Thornburn, Wm. H. Allen, S. W. Nauson, John Hancock, John Victory.

Argentine M. Co., Santa Catalina Island; Robert McMillan, E. R. Carpentier, John M. Birdsall, Geo. H. Ensign, Cortland Wood.

Bromedary Quartz M. Co., Nevada county, Cal.; J. O. Hanscom, G. C. Ring, Samuel Paul, A. B. Cranston, Herman Camp.

Pony C. M. Co., Placer county, Cal.; J. R. Nickerson, J. E. Freeman, D. B Goode.

Cayour M. Co., Lander county, N. T.; G. H. Pigne Dupuytren, S. Haine, Joseph Haine.

Owens G. & S. M. Co., Mono county, Cal.; John B. Owens, J. B. Leavett, Warren Holt.

Munroe S. M. Co., Tulare county, Cal.; D. H. Mitchell, John J. McBride, W. B. May.

Ida May M. Co.; same as above.

California Manganese M. Co., Marin county, Cal.; J. Van Arman, J. F. Miller, T. A. Blake, Winslow Baker, E. J. Loomis.

Hudson Mining, Lumbering & Prospecting Co., California, New Mexico, Nevada and Arizona; Robert Crouch, E. L. B. Brooks, J. Fowler, A. F. Tilden, Wm. Muldrow.

Pacific M., L. & P. Co., locations as above; P. L. Edwards, John Fowler, E. L. B. Brooks, Wm. Muldrow, Wm. G. English.

New York M., L. & P. Co., locations as above; E. L. B. Brooks, J. Fowler, Wm. Muldrow, Isaac Murray, Wallace Everson,

Cocomungo M. Co., Eureka district, Arizona; Eugene Crowell, C. Spencer, J. H. Reichert, J. R. Jarboe, S. S. Knight.

Original Buckeye M. Co., El Dorado Canon, Arizona; J. E. Marchand, Hall McAllister, Peter Banta, A. Schiller, L. Parsons.

Queen of the Mountain S. M. Co., Nevada Territory; O. M. Perkins, Jerome Ackerson, Benj. Fowler.

Rosecrans S. M. Co.; same as above.

Ophir G. & S. M. Co., Boise county, I. T.; D. W. Taylor, F. A. J. Diss, J. Tyler Carr.

Tecumseh G., S. & C. M. Co., Calaveras county, Cal.; J. A. Reichert. T. Helmken, Chas. Buer, A. Himmelman, M. Fenstermacher.

Gold in New York.

Friday, April 15.....173.
Saturday April 16,.....175.
Monday April 18.....169.
Tuesday April 19.....166.
Wednesday, April 20.....167@169.
Thursday, April 22.....164½@165.

City Stock Reports.

Sales of Mining Shares

For the week previous to Saturday, April 23, 1864.

By the San Francisco Stock and Exchange Board, Pacific Board of Brokers, Stock Exchange and the City Stock Exchange Board of Brokers

NAMES OF COMPANIES.	¢	MIS. SOLD.	LOWEST.	HIGH EST.	CLOSING.	AM'T SOLD.
Aladdin,		10	3	3	3	30
Ophir,		84	1500	1500	1500	7500
Nevada, J. G.,		414	88	112	88	37532
Buckeye,		544	14	22	15	10389
Bodie Bluff,		175	2	2	2	392
Bullion,		42	72	76	70	1968
Baltic,		110	139	143	139	13560
Overman,		5	400	400	400	1244
Shoshones,		300	2	3	2	700
Blue Ledge,		83	18	20	19	1630
Kobler Brothers,		330	20	20	20	6320
Uncle Sam,		4	900	900	900	2900
Central American,		120	12	18	17	2921
Lady Bryan,		4750	44	57	44	198782
Baltimore American,		264	47	54	53	16312
Wide West,		110	22	26	25	2878
North American,		803	145	185	185	15000
Mary Ann,		55	90	105	94	2025
North Potosi,		1417	60	95	62	1.7325
Bajazet,		25	42	47	42	1450
Real del Moute,		1250	65	85	72	63047
Melones,		5	40	40	40	200
Chollar,		178	335	400	400	1700
Burning Moscow,		872	100	110	105	80145
Antelope,		10	175	175	175	1750
Lord Byron,		42	9	10	10	600
Sweet Vengeance,		10	18	18	18	180
Silver Hill,		70	5	7	5	360
Crockett,		10	10	10	10	100
Florence,		50	30	30	30	150
Echo,		8	23	23	23	184
Smith & Martin,		10	3	3	3	30
Utah,		20	20	22	20	420
Lancaster,		135	10	11	11	1450
Imperial,		15	162	170	170	1525
Rock Island,		70	40	42	42	5050
Caledonia Tunnel,		105	22	24	24	2748
Union, Russ,		20	1	2	2	27
Willow Springs,		90	2	2	2	180
Scucca,		156	12	16	15	1750
Harmon,		65	21	29	21	1685
Sacramento & Meredith,		252	53	53	58	12290
Green,		20	2	2	2	40
Fanny Rayne,		10	50	50	50	500
Pride of the West,		15	70	77	70	1087
Leviathan,		20	45	45	45	900
Central,		5	200	200	200	1000
Justice,		10	90	90	90	3305
Good Return,		100	2	2	2	200
De Soto,		20	35	36	36	710
North Star,		12	60	52	52	829
Payot,		6	2	2	2	10
Crown Point Ravine,		10	7	7	7	70
Burnside,		25	12	16	17	711
Coso,		207	3	6	4	1628
Santa Rosa,		90	6	8	6	1124
Daney,		20	100	100	100	2000
Napoleon, copper,		2	78	78	78	150
Crockett Consolidated,		60	7	9	9	1945
Red Jacket,		10	8	8	3	30
Josephine, Coso,		25	3	8	8	75
Knickerbocker,		30	35	41	40	1175
Mount Hope,		25	2	2	2	50
Independent,		5	75	75	75	375
Zenith,		25	1	1	1	26
Nightingale,		16	7	7	7	112
South Mollis,		20	5	5	5	100
Humboldt G. and S. Mining Co.,		20	10	10	10	200
Providence,		5	22	22	22	110
Total am't of sales for the week						659,186

Mining Gossip.

EDITED BY.....FRANK WARDWELL.
FOR THE MINING AND SCIENTIFIC PRESS.

How Some People Get Rich.

To illustrate how some people "fall into," as you may term it, immense fortunes, and then take unto themselves the false notion that the same was caused by their good business qualities and shrewdness of character, we will state an instance within our own knowledge which took place in this city recently. The circumstances are these: A hard-working, industrious mechanic, with very ordinary intellect, had, after three years of hard labor, managed to accumulate the sum of from $1,000 to $1,500. One day, in the course of conversation with an acquaintance, who was the possessor of more brains than he had money (for, to tell the truth, he was a broken-down personage, although possessed of great hope for the future), he remarked that he thought if he could procure the sum of $1,000 he could invest it in a good operation, in the way of a mine, which would, eventually, make them both very rich. The capitalist (for such he was in this case) could not, at first, see the point; and the fact of the matter was, he thought stocks were almost too *permanent* an investment for his money. However, after much consideration and argument on the part of the person who would have him invest, he at last assented, forgetting to obtain anything in the shape of a written document to show that he had loaned the amount, or even given it in trust as an investment. Well, the money was all duly used in the mining project, and nearly a year rolled on and no sign of the loaner either obtaining his principal or even interest on the money, for it was understood mutually between them that the money should draw an interest. One day he came boldly forth, and said that he wanted his money out of the affair; that he was sick of mines, and commenced to cry like a child. The operator told him it was no use to act in such a childish manner; he knew that the money was now in *terra firma*, and he must wait until the enterprise repaid it; it would not do to abandon their undertaking now, and, furthermore, he said, "I don't know that you have any money in the mine, or that you can prove either that I ever borrowed any from you; so it will be useless for you to commence any action to recover the amount." So off goes the loaner, almost broken-hearted, lamenting his fate, and, seeing no recourse, came to the wise conclusion to put the amount down to profit and loss account. About three months after the conversation took place, the loaner of the money received a note, stating that his friend had struck it very rich in the mine, and shares could be sold in the market for $400. The loaner started the next day to where the mine was located, saw his acquaintance, who greeted him with a smile, recalling to his mind the fact of how foolish he desired to act a few months ago, and at the same time presented him with an order upon a banking house in this city for the snug sum of $36,000, with interest on the borrowed money, being his one-half share of the investment. Now he lives in a splendid residence, drives his team, and you will see this same individual, the loaner of the money, strutting up and down our thoroughfares, deeming himself the "observed of all observers," often saying, in the course of conversation, what a thing it is for a man to be a shrewd, careful operator, like himself, and to know what to invest in, and how strange it was to him to witness so many poor people in our midst; when, if it had not been that he was compelled by force to remain in the enterprise, he would, in all probability, have been as poor, and in as miserable a condition, as before. There are hundreds of just such cases we could illustrate if we desired to.

PACIFIC GLASS WORKS.—This company filed a certificate on the 19th inst. for an increase of their capital stock from $50,000 to $150,000.

FOOD FOR THE MINERS.—Over 2,500 head of sheep passed near Aurora, bound for Reese River, during the first of last week. We doubt not but that they will receive a cordial welcome by the miners in that locality.

DID NOT AGREE.—The jury in the case of the Savage Company *vs.* North Potosi, did not agree, and were thereupon dismissed. We learn that they stood eight for the North Potosi and four for the Savage. As soon as the news reached the city, up went North Potosi to quite respectable figures.

ANOTHER ACCIDENT.—Mr. J. W. Parker, a large owner in the Antelope mine, Esmeralda, was instantly killed, while at work in the lower shaft of the mine, by the caving in of earth upon him. He was sixty-one years of age.

MILL DESTROYED.—On the afternoon of the 16th inst., the Gould Quartz Mill, Virginia, was totally destroyed by fire. Loss estimated at between $40,000 and $50,000, with only $5,000 insurance. The owners of the mill are Messrs. Carver & Stanchfield. The fire caught in the wood room, situated directly in front of the furnaces.

HOMESTEAD ASSOCIATION.—The articles of incorporation of the Metropolitan Homestead Association were filed on the 20th inst. The capital stock of the Company is $7,200. The Trustees are A. Crawford, W. Hollis, E Barry, W. Irvine, S. Selliek, J. McGuirk and J. Clark.

BETTER.—Mr. W. P. Denekla, President of the Pacific Board of Brokers, we are pleased to state, continues to improve, and says he hopes to be among his many friends again in the course of two weeks, at the furthest. We trust his hopes may be realized.

FAILURE.—During the week another one of our leading brokers had to suspend payment, owing to unlucky speculations in Real del Monte and Lady Bryan stocks. The party in question is a smart, hard-working, energetic business man, and we always feel sorry to chronicle the misfortune of a person possessing such good qualities.

QUITE A SALE.—A sale of two hundred feet in one of the sub-divisions of the renowned Moss lead, situated in the Colorado country, also two hundred feet in a neighboring claim, is reported as having been made to a company in Philadelphia, for the sum of $55,000. We give the rumor for what it is worth, as there is nothing authentic known concerning the transaction.

ELECTION.—At a meeting of the stockholders of the Bullion Mining Company, held at Virginia City, April 15th, the following gentlemen were duly elected: S. T. Gage, President; R. C. Chappell, J. W. Mickey and D. C. Benham, Trustees; J. M. Walker, Superintendent; Messrs. Paxton & Thornburgh, Treasurers; B. W. Tomlin, Transfer Secretary (606 Merchant street, S. F.,); G. W. Hopkins, Secretary.

BUCKEYE.—On the 19th inst. this stock showed a decided improvement in the Boards in the way of price, on account of the result of 229 lbs. of their ore worked, which gives a return at the rate of $54.78 per ton, and a fire assay of $113.54. The Superintendent states that they have plenty of this description of ore, and that the mine is in the very best condition.

LADY BRYAN.—The superintendent, in a letter received here, by the company, on the 22nd instant, says he has struck a body of quartz of a very good character. The main drifts have also improved, the quartz being of a much better quality and the rock much harder; therefore, they will not be able to make such rapid headway as heretofore.

ANOTHER POWDER HOUSE.—A fine building of stone, for a powder house, is being erected on the Protrero, just beyond the Rope-Walk. The building will be two stories high and 30 x 50 feet, capable of storing 25,000 kegs of powder.

FORGERY.—Two well known detectives of this city might have been seen by the close observer, hard at work on the afternoon of the 20th inst., "working up" a case which had been placed in their hands for detection. First you would see these shrewd worthies dart into one brokerage establishment, then into another, until our hump of curiosity became aroused, and from the fact that they confined their enquiries to brokerage concerns, we came to the conclusion that it must be in our line, so off we started for an item, which we obtained after much cross questioning and plenty of Yankee inquisitiveness on our part. The facts are these: In the morning session of the 1st Stock Board a certain broker purchased ten shares of Lady Bryan; after it had been delivered to him, he sent it to the Company's office to have it transferred, when the Secretary returned it, pronouncing it a forgery, and thus the detectives were trying to work the case up by tracing the different sales and purchases down from one to another.

Since the above was in type, we are given to understand that several more certificates of the same stock have been discovered as being forgeries. It is thought that there are still a large quantity of a similar nature afloat in Virginia City. They have not, as yet been able to discover the rascally perpetrators.

STOCK TRANSACTION.—G. F. Whiteman *vs.* G. Peck. The plaintiff in this case alleges that on the 1st of May, 1863, the defendant loaned him the sum of five hundred dollars, for which the plaintiff gave his promissory note, payable within six months, in United States gold coin or legal tender notes at their market value in San Francisco, with interest from date at the rate of two per cent. per month, giving one hundred shares of Owens River gold and silver mining stock as collateral security. Whiteman transferred to Peek thirty-seven shares of stock in payment of the note given for the money borrowed, reserving for himself the right to redeem the same within ninety days, at the rate of $20 per share. The plaintiff alleges that Mr. Peck, before the expiration of the ninety days, disposed of the stock for the sum of $78 per share, and was therefore unable to return the stock when demanded by plaintiff, who now asks the court to award him damages for $1,295.

FIRST MILL.—Messrs. Ogden & Tichenor, of this city, have completed their arrangements for the erection of a quartz mill at Goodwin City, the seat of government of Arizona Territory. The mill is of twenty-five horse power, and was shipped during last week, under the superintendence of Mr. Noyes, for the mouth of the Colorado river, whence it will be at once taken, per steamer, up the river to La Paz, and from thence to Goodwin City by mule teams. As soon as the mill is placed in running order, it will commence on the rock taken from the "Benedict" mine, which is said to be unusually rich, both in gold and silver. They expect to get the mill under thorough headway by the last of June.

GIVE THEM A CALL.—In another portion of our to-day's issue, will be found the card of Messrs. Davenport and Smith, who have entered business as Mining and General Accountants, Scriveners and Conveyancers. Mr. Davenport is too well known to the business community to require any assurance from us, as being one of the most thorough and practical accountants on the Coast. Mr. Smith is recently from the East, and a gentleman well versed in the different branches of the law. We take pleasure in recommending these gentlemen to those who require such service as theirs.

SICKNESS.—Many of our brokers, in town, during the past week, have looked decidedly blue and sadly troubled and affected with the unpleasant disease so well known to brokers — that of "selling short.", Many of their contracts having fallen due at the wrong figures to suit their calculations for placing a snug "pile" in their pockets—the reverse having been realized, instead. Cheer up, "nothing venture, nothing win."

Mechanical Department.

[Written for the Mining and Scientific Press.]

More About Generating Steam.

Messrs. Editors :—In "An Euquirer's " first eommunication we had the presentation as posing queries, of suppositions long established as practieal developments ; in his late effort victories and exultations over self erected effigies, out of sight of the true position. Not heing stragetieally inelined, nor quite strickeu with a poverty of polemie resources, I must be exeused from either imitating or following these manners.

Let us see whether it is "An Enquirer " or myself that keeps nearest to the " text." The notiee of " au improvement iu geuerating steam," which called forth my first eommuuieation on the subjeet, contained the following statement: " The object of the iuvention is to effect a saving in the use of fuel. The principle upon which it is based is to expose as much water surfaee to the fire as possihle." The artiele farther stated that the water is raised to a temperature near steam heat before entering the boiler, and that the inventor caleulates to produee a a hundred per cent. more steam, with an equal amount of fuel, than can he generated by any other mode. To all of which I answered, that the idea was, in the face of the present perfection in boilers, simply absurd. It was sufficient for me, in consideration of the avowed principle, to know the general plan of operation, to boldly decide upon its feasihility. It was plainly a projeet to present an extra surfaee of water to the aetion of *the fire*, in raising it to a given temperature, by two separate modes of heating, which iu view of boilers being used after all, would be equivalent to corrugating the surfaces of boilers of the same *general* form and eapaeity exeept the advantage in *time* of produeing steam. I made no attempt to toueh upou the particular forms of boilers, because all possible geometrieal shapes, have been tested, both in regard to surface relations and general form, and, also, beeause there was no declaration of the substitution of a form different from auy now in use. I again referred to the surface of water exposed to the fire, in my second communication, in speaking of the " form of surfaee, by eorrugation for instance," in hoilers of a given capacity. This " An Enquirer " perverts into meaning a difference in the general shape of hoilers, which is no where dedneible from any of my assertions. In the oval style of boilers there is a large surfaee of exposure presented to the fire, but not to its most direct influeuce, aud the gases too readily escape. In the tuhular flue hoiler the flames are subjeet to confined and prolonged contaet with the surface of exposure, whereby gases are lost through imperfeet eombustion. Beneath a flat-bottomed boiler freely exposed to a single sheet of flame, it is claimed that the combustion is the most perfeet of all, aud that by careful management of the fire there need be but little loss in the use of fuel. Time is a necessary ingredient iu buruing fuel, and the entire problem of economising furnaee heat, aside from the eare of the fire and prevention of radiation, would seem to lie in that general shape of the boiler that shall seeure free eomhustion and direct moderate eontact with the flames so long as that combustion is taking place. Couplieate the operatiou with a network of extensive absorbing and rapidly eonducting mediums and their results and interferenee with the neeessary euergy of the area of eomhustion — the gases and particles of earhon are cooled and carried off hy the dralt. No simple increase of the surfaee of water exposure in the above mentioned, or any other forms of boilers, ean cause greater eombustion of fuel or eventual absorptiou of heat with the same fire. Let " An Enquirer " even theoretically demonstrate that any arrangement of a greater surface of water exposure and half the fuel uow used can produee results equal to those that are and can he brought about without present improved hoilers. Surely, if such a thing can be done there should he no delay in properly honoring the capable genius.

In speaking of the hetter couduetion of a diminished quantity of steel over iron, in boilers of the same capacity, I made no allusion to its superiority in regard to a fixed quantity of fuel, but in the following sentences intimated that any one able to prove that rapid eonduction through solid matter ensured more perfect comhustion of fuel, could adapt the same principle to stoves, cooking utensils; etc. But " An Enquirer " dodges this substantial argument against his pet fact, with an amaziug adroituess, by misinterpreting the first sentence and very conveniently failing to diseover the meaning of the others.

Again " An Enquirer " rejoices over what appears to him to be a eontradietion betweeu my statemeuts regarding electro-magnetie power, when there is nothing of the kind shown. Fully aware of the difference in material upon which mental and physieal impressions must operate, I will elueidate the subject more at leugth. Iu my reference to the power of eleetricity, I spoke of the large sum of its isolated powers, when free to operate on material most easily affeeted by its lowest conditions of aetion, and when its influence is extended hy a depressiou of force equal to the capacity of that material—such being the result of feeble currents of electricity operating on animal tissues. This I contrasted with the electro-maguetie force engendered by an equal quantity of electricity, showiug that not only concentratiou, but, also, magnetism, wastes and restrains the power of the eleetricity. Heat, force, magnetism aud electricity can ouly powefully act hy one or more series of concentrations, whether they flow from, or into, ten or a thousand channels ; one axis or fulerum of power must support and regulate the strength of the entire work. The invention I eriticised, claimed to apply eleetrieity allied with maguetism, aud by extending the area of reeeptiou to increase the power of a given current—a direct eontravention of the laws of electro-magnetism. Unlike electrieity, eleetro-magnetism ean have no choice of materials, and must limitedly operate through the one main ehannel, whether its energy be weak or powerful. But that energy must possess high eoncentration to operate at all. The natural restraints of power would be illustrated if " An Enquirer " should attempt to blow a few staves of music through a headless flour barrel or to burst a boiler with a few energtie expenditures of breath ; in either case he would prohably fail, because the power exerted could not overeome the extent of surface or strength of materials. But if he should naturally give the same impulse of wind to a penny trumpet, the conduetiug eapacity of the latter would be iusufficient for the pressure exerted. An undue quantity in eleetricity appears to he converted into heat, and an electromagnetie eurreut urged heyond its limit gives rise to a counter current : the heat radiates and is lost, the opposite eleetro-magnetic currents nullify each other, aud theu are, perhaps, lost as heat.

" An Enquirer " is anxious that I should throw up " the sponge." Only let him persevere, and if he eau succeed in getting me to swallow any of his artfully arranged argumeuts, I shall, probably, afterwards throw up something liko a " whale." From the above mentioned elassical allusion and other sigus, I should judge that " An Enquirer " had become the confused champion of superficial extensions under a high pressure mistake. Allow me to inform him that the *great* improvement in generating steam is not a prize-ring affair, although somehow connected with the Gould & Curry *mill*, nor is the Boiler-makers *strike* a complication thereof. Men of an enquiring turn of mind are. unfortunately, often immolated upon similar errors aud disappointments.

E. A. M.

Explosion of Steam Boilers.—There exists in Manchester, England, an asseciation of engineers, who earefully inspect the boilers of all parties belonging to the asseciation, and make every possible effort to antieipate and remove any danger of explosion. The association, furthermore, earefully survey, hy experts, every disaster which may oecur to hoilers outside of their organization, as well as those oeeurring to boilers under their immediate charge. From a tahular statement, iu the London *Engineer*, of the boiler explosions which oeeurred in Eugland during the year 1863, it appears that of the thirty-six explosions only *one* oecurred among the boilers under the direetiou and eontrol of this association, and this was considered an exceptional case. On enquiry into the causes of the explosions which occurred to hoilers ottside of the immediate supervision of the association, it appeared that the priucipal eause of disaster was corrosion—chiefly external. It further appears that this eorrosion was often attrihutable to damp or " sweat," as it is technically termed, from between the walls in which the boilers were set, and their outer surface. Fully one-sixth of all the corrosions was traeeable direetly to external eorrosion! Only two were attributable to excessive pressure. and four from seareity of water. It would appear from the above that very little importance can be attached to the numerous aud ingenious scientifie theories that have, from time to time, beeu suggested by careless, theoretical observers, hy way of explanation of this class of aeeidents. There can be little question with regard to the capaeity for judging, or eloseness of observation on the part of the experts of the asseeiation above referred to. A eareful and candid eonsideration of this matter on the part of maehinists, is of much importanee on this eoast. Why cannot California organize a similar asseeiation? The use of steam is destined to heeome more important here than iu any other portion of the globe eontaining an equal populatiou. Will not some of our leading maehiuists make a move in this matter?

Artificial India Rubber.—The name of Campticsu is given to a new and valuable suhstitute for India rubber. This remarkable substance is formed by the oxidation of linseed oil. Plates of glass are dipped in tolinsced oil and allowed to dry. The plates are again dipped aud dried, until a sufficient film has aceumulated, and then it is removed. The inventor states that by erushing the oxidized oil obtained in sheets, and working it thoroughly in hot mixing rolls, he found that a substanee was produced which exists so strongly in India rubber. The addition of a small proportiou of shellae gives this property forming a material singularly like eaoutehouc when worked into dough, and which can be rolled on to fahrics in the same manner and with the same faeility. Pigments can easily be added to give color; and the addition of resins impart other and rathe varied proportions of adhesiou useful in affording the means of uniting fabries as hy ruhber. Not only has this siugular product heeu thus assimilated to rubber for uses ou fabries, or combined with fibre on floor cloths, bnt is capable of being worked with pigment and vuleauized exaetly like India rubber, forming a hard eompound like vulcanite or ehonite, excepting that uo sulphur is neeessary.

Power of Endurance.—An intelligent writer in the Washington *Chronicle*, says that the greatest power of enduranee of sueh hardships as belong to a soldier's life helong to men over thirty-five years of age; that men from eighteen to thirty are ten times on the sick list where those older are only once; that the records of the hospitals around Washington develop the fact that aside from surgical cases, the patients there under thirty five are as forty to one over that age; consequently a sound man of forty, and of temperate habits, will endure more fatigue and bad treatment than one equally sonud at the age of twenty.

The friends of seienee in Chicago are taking measures to establish a genuine Museum of Natural History in that eity. Sixty-one gentlemen have subscribed $500 each towards a fund to found the institution.

The Humboldt Mines.

We condense the following items from the Humholdt Register of April 9th :

The " Sheba " workmeu have struek another rich lode in their tunnel. " De Soto " prospects hetter every day. " Franklin " and " American Basin " are bammering away at a rate which will soon bring them into notiee. " Star Tunneling Co." will start the tunnel this week, and if rightly managed will be a good investment. " Union Band " will resume work as soon as the weather will permit. Several old residents have returned from San Francisco, where they spent the Winter. They all seem pleased to get back, and anxious to get to work prospecting different claims. A stoek board was organized the 5th ; meetiugs open to the public. Workmen on the " El Dorado " claim are getting along finely ; new tunnel in 18 feet which will cut the ledge 130 feet below the surface, within 80 feet from present face of tunuel. Some fine looking speeimens of ore have been taken from the bottom of the shaft, 63 fect below the surface, where the ledge is five feet in width. Fall's mill is rnnning on " Moonlight " rock this week. Has not amalgamated any from the present lot. A pound of pulp taken from the vats, and assayed hy F. W. Blake, yielded at the average of $3,680 to the tun of rock. A trial of 2,500 lbs. of ore from the " Mars " ledge, made at Fall's mill this week, produced a handsome brick of 171 ozs., worth $140. Seventy-one pounds of rock from the Canada ledge, Trinity district, yielded a fraction over 17 onnces of bullion. Wells, Fargo & Co. shipped, on Monday, April 4th, two. hricks, 576 ounces of fine hullion, from three tuns of " Gem " ore; value, $650 40.

Patent Department.

New Separator.—Mr. Zenas Wheeler, whose amalgamating pan and separator has already made his name extensively and favorably known to the mining public of California, is getting up a new separator, operating upon a principle entirely dissimilar from his previous invention. We shall give an illustration and full description of this pan as soon as the necessary engravings can be prepared for the same. Application for letters patent for the same have been made through the Mining and Scientific Press Patent Agency.

Another.—Julius Cammann, who filed a caveat for an Amalgamator and Separator, a model of which was exhibited at the last State Fair, at Sacramento, has now applied for patent papers for the same, through the Mining and Scientific Press Patent Agency.

Ann Still Another.—Mr. Andrew Hunter has exhibited to us the model of a new Amalgamator and Separator, which consists of an improvement upon the shaking table. The shaking table is merely employed as the base of the invention; the machinery attached and the entire manipulation of the sands in this machine is altogether different from the old-fashioned table. The machine is quite novel and ingenious, and will doubtless prove effective. A working model may be seen at the Eureka Metallurgical Works, Commercial street, below Front. Arrangements have been made to put this invention to a practical test immediately.

The Newly Invented Safe Hook, of which we made mention last week, is highly spoken of in the Virginia papers. It is described as follows in the Gold Hill *News* of April 13th:

The hook is the invention of Mr. Frazer, a mechanic employed at the Fulton Foundry. It is composed of several pieces, which are fitted together in a manner different from those of any other hook which we have seen in use. The main piece of which the hook is composed is of a square bar of inch iron about ten inches long, which at the lower end is turned up in the form of a hook, or section of a circle. A piece of iron of the same size, but only four or five inches long, is attached to the side of this main hook by an iron clasp which extends around both these pieces, and is so fitted as to allow the latter piece to play up and down readily. The lower part of this latter piece is turned to correspond with the curve of the other part of the hook, and to which it is exactly fitted. It will of its own weight fall down and close the hook. To fasten the hook a piece of iron a couple of inches in length is added to the top of the sliding piece, which has a short turn or projection of about a quarter of an inch which turns in toward the shank of the hook. This piece of iron is attached to the other slide by a spring, which keeps it to its place and makes it appear almost as if it were a part of the same piece. When the slide is down and the hook closed the projection on this upper piece of iron snaps into a groove cut in the shank of the main piece of the hook, and no jar will unfasten it until it is taken hold of, pulled back, and the whole slide lifted up by hand. Attached to the hook is a chain and swivel, which is, in all, about two feet long, and is designed to connect the hook to the rope and allow the latter to twist or untwist without turning the car or bucket which is attached.

The opinion is expressed that this hook is safe, strong, durable and less liable to get out of order than any other, and that it must eventually come into general use. The numerous terrible accidents which so frequently occur from the inefficient or careless manner in which tubs are secured to the hook, seem to render any improvement in this direction a matter of great importance.

Extraordinary Speed.—The new ironclad ram Avenger, recently constructed upon an entirely new model from any vessel of the kind heretofore built, is said to have reached the extraordinary speed of 35 miles per hour. Her armament consists of a 100-pound Parrott and five 12-pounders. Her main reliance, however, is upon her prow as a ram, to which her great speed will give immense weight.

Improved Lightning Rods.—We last week alluded to some important experiments made under the direction of the Paris Academy of Sciences, going to prove the great superiority of sharp pointed over round or blunt pointed rods. Our attention has since been called to an important improvement in the main conducting portion of the rod. This improvement consists in making the rod thin and flat, instead of square or octagonal, as heretofore. M. Brittan, of Chicago, Ill., has suggested this improvement, and applied for letters patent for the same. This new conductor is simply the ordinary square iron used, rolled into a very thin plate, the entire length being made as continuous as possible, and wherever joints occur they are to be closely riveted. The tip is split, so as to form three separate sharp points, after the ordinary form. The continuousness of such a conductor, without any loose joints, must be a valuable feature, as compared with the joints usually employed, which often present most convenient breaks for the escape of the electrical current into the structure which the rod is designed to protect. The flat surface also allows of the rod being rolled up in a convenient form for transportation.

A California Invention Abroad.—The London *Mining Journal* speaks in high terms of Hansbrow's Double-Acting California Pump, and states that a very large number of them have been manufactured and sold in England.

The Mining and Scientific Press Patent Agency.

OFFICE, 57, GOVERNMENT HOUSE, SAN FRANCISCO.

Information About Obtaining Patents.

The Patent Law Amendment Act, of March 4th 1861, and March 3d 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent? A positive answer to this question is only to be had by presenting a formal application for patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the Mining and Scientific Press. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Preliminary Examinations.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search made at the U. S. Patent Office, Washington, through the medium of our associate in that city, to ascertain whether among all the patents and models there stored, any invention can be found which is similar in character to that of the applicant. On the completion of this special search we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollars. This search, though it involves the expense just named, will usually prove satisfactory. If the same device has been before patented, the time and expense of constructing models, preparing documents, etc., will in most cases be saved; if the invention has been in part patented, the applicant will be enabled to modify his claims and expectations accordingly. Many other obvious advantages attending the Preliminary Examination; although the strictest search does not always enable the applicant to know positively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publication; or some other person has been previously rejected on an analagous device; or some other invention for a similar purpose, but partially resembles the applicant's in its construction; or the Government makes an unjust or uncommon decision. Against none of these contingencies does the Preliminary Examination provide; it will, however, generally inform the applicant whether an improvement similar to his and used for the same purpose has ever been patented or not in this country.

Persons desiring the Preliminary examination are requested to remit the fee ($10), and furnish us with a sketch and description of the invention.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian, Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of governments that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues.—If the application is rejected we cause a thorough investigation to be made into the reasons presented in the Commissioner for refusing the patent. In making this examination, we have excess to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client. For this service we make no charge. If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The laws requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: Dewey & Co., Mining and Scientific Press, rooms 56 and 57, Government House, corner of Sansome and Washington Streets, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail—The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and attidavit, with a letter of instruction, etc. Our fee for preparing the case is then due, and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued, the applicant will be notified to remit the last installment of the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months and even more. We make a special point to forward our cases as rapidly as possible.

Return of Models.

Under the new law, if the applicants case has been rejected he is entitled to withdraw his model from the Patent Office.

This law applies to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expense.

Application for Patents, Designs, Trade-Marks, Labels, etc.

Under the new law patents may be taken out for any new form of any article, also for tools, patterns, castings, machine-frames, stove-plates, borders, fringes, all new designs for printing, weaving or stamping upon silks, calicoes, carpets, oil-cloth, prints, paper-hangings, and other articles. Trade-marks, labels, envelopes, boxes and bottles for goods, may also be patented; likewise all works of art, including prints, paintings, busts, statues, bas-relief, or compositions in mito, or basso relievo, new dies, impressions, ornaments to be placed upon any article of manufacture, architectural work, etc.

Our facilities for the prompt preparation and securing of patents are of the most extensive character and our charges are very moderate.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the tariff of fees established by law:

On every application for a design, for 3 years and six months...	$10
On every application for a design, for seven years	15
On every application for a design, for fourteen years	30
On every caveat	10
On every application for a patent	15
On issuing each original patent	20
On filing a disclaimer	10
On every application for a re-issue	30
On every additional patent granted on a re-issue	30
On every application for an extension	50
On the grant of every extension	50
On appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, D. C.	25

Infringements.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunction from the Court, to an arrest of or prohibition from the employment of his machinery, shop, works, factory and men in production of the article.

In addition to injunction the infringer is liable to be mulched in treble the amount of damages awarded by the jury. The maker, the workman, the seller, and the purchaser, if a user, are all liable either collectively or individually.

Having access to all the patents, models, public records, drawings and other documents pertaining to the Patent Office, we are prepared to make examinations and give opinions upon all infringement questions, advise as to the scope and ground covered by patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Appeals.

In rejected and other cases, the new law provides for an appeal from the Examiner-in-chief to the Commissioner in person, on the payment of a fee of twenty dollars. A further appeal may be taken from the decision of the Commissioner to the U. S. Court, of the District of Columbia. These appeals are heard by any of the Judges before whom the applicant elects to bring the case. No Jury. All the papers, models, etc., are sent by the Commissioner to the Judge, who then reviews the case, and either sustains or reverses the Commissioner's decision.

The party taking the appeal pays an additional fee of twenty-five dollars. The Judge appoints a day of hearing. The applicant can appear in person or by counsel to state his case and file a written argument. Five days are allowed the opponent to put in an answer, and a similar period to the appelant for a closing reply.

Many important cases are brought before the Judges on appeal and the decisions of the Commissioner are not unfrequently reversed.

We have had successful experience in conducting these appeals, and our services are rendered on moderate terms.

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W. B. EWER,.....SENIOR EDITOR.

C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

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American and Foreign Patents.—Letters Patent for Inventors can be secured in the United States and foreign countries through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past year.

San Francisco:

Saturday Morning, April 23, 1864.

THE AMERICAN FLAG, which has made its appearance in this city the past week, is the neatest printed daily in the city. It is published every morning Sundays excepted, by D. O. McCarthy. It is the same size with the Evening *Bulletin*, but printed on much better paper, and contains more reading matter than any other paper in the State. The editorial department exhibits a marked degree of ability and vigor, and will not suffer by comparison with any of its cotemporaries.

LOUD TALK.—The De Soto (Humboldt) Mining Company offer to work a ton of their ore, against a ton of any ore in Nevada Territory, for a wager of ten thousand dollars. They want it *distinctly* understood that they make no exceptions in the case—so all companies can have a chance if they desire to test their ores. Well done for Humboldt. We admire the spirit, if it can only be carried out successfully.

RETIRED.—A. T. Dewey retires from the *Mountain Messenger*. He * * * * * made an interesting paper. If he is in the silver mining business, we hope his lode will prove rich. The *Messenger* has been removed to Downieville. [*Daily American Flag.*

Thanks, new and brilliant neighbor, for your good opinion. Can't say as to our lode, but we are bound to sink deep and drift wide for it. Modesty prevents our giving your item in full.

REAL DEL MONTE.—There appears to be no change in the mine from the last accounts received here by the company. Matters continue to progress favorably, and another shipment of $12,000 was made on the 20th, being the result of one week's run, with their mills not running very steadily at that.

ADVICE.—To rise from adversity to prosperity the ladder must be ascended gradually and with extreme carefulness; but the majority in their eagerness to reach the summit try to step two rounds at a time. when, lo! they tumble down headlong into the mire twice as deep as before.

WASHOE TREASURE SHIPMENT.—The quantity of bullion shipped by Wells, Fargo & Co. from Virginia, for the week ending April 9th, was unusually small; not quite reaching 3½ tons, and worth but $160,106.

NO MINING SALES need be published under the regulations of the new law, except for assessments ordered after the date of the approval of the Act, April 4th, 1864.

VALUABLE CORRESPONDENCE has been received from various contributors, a portion of which will appear next week.

MINING SHARE MARKET.

The share market for the past week has been unusually quiet, and exhibits a most marked falling off in the aggregate amount of transactions. The business of the board has been almost exclusively confined to a few speculative stocks, the most of which have been dealt in at fluctuating rates.

At the suggestion of numerous readers we have changed the plan of our sales report, and present it to-day materially condensed, and in a tabular form. This change gives us additional space for reading matter, and enables our readers to take a more rapid and comprehensive view of the business of the week, than they could possibly do by looking over the more diffusive report as heretofore given. The aggregate amount of sales for the week foots up at $659,186.

Opbir has still further declined. The latest sales were at $1,500; at the close $1,400 is bid, and $1,480 asked.

Gould & Curry is held firmly at $4,550; $4,400 is offered without finding sellers.

Chollar has advanced from $350 to 400, at which latter figure several sales have been made.

Burning Moscow has met with a material improvement and considerable business; 872 shares have changed hands at $100@110½, closing at $108.

Potosi has remained quiet; $825 has been offered with holders firm at $900.

North Potosi has still further advanced, with a large but somewhat fluctuating business. It closed last week at $61@65, reached $95 on Monday, receded to $70@75 at the middle of the week, but again advanced to $102 cash, and 107½, buyer 30 days, at last evening's Board.

Savage has remained quiet at the closing figures of last week. Holders firm at $2,500, with bidders at 2,400.

North American has formed quite a feature during the week. Opening at $154—a slight improvement—it gradually advanced, with a large business, until it reached $185, yesterday morning; closing at the evening's board at 177½.

Lady Bryan is still in large request. We note sales of 4765 shares, at from $44@57½—a slight improvement over last week. Still further favorable developments at the mine are reported. A quantity of forged stock has been detected.

Baltimore American has met with an important advance. Opening the week at $48, it has steadily advanced to 60, buyer 30, at last evening's board.

Buckeye has been considerably inquired after at from $16@17; about 550 shares have changed hands. Very favorable accounts have been received from this mine. See notice elsewhere.

Bajazette has been quiet and may be quoted at $42@47. Melones has been heard from at $40; Bullion has been uniform at $76.

Nevada, J. G., has encountered a considerable decline; closing last week at $110, it has gradually dropped to $88@92.

Mary Ann has met with a slight business at $90@105. Baltic has still further declined, and may be quoted firm at $140.

Overman has been held firm at $400; Blue Ledge has met with a light business at $18@20; Kohler Brothers has been considerably inquired after at $21@25½; Central America is steady at $16; California Tunnel at $22@24.

Uncle Sam has been sold at $900, but has few sellers.

Burnside has met with considerable business at $12½. Three hundred shares of Shoshone has changed hands at $2.25@2.65. Seneca may be quoted at $15. Harmon has met with sales at $25@28, but closed at $21.

Sacramento and Meredith is firm at $53. Davy has been heard from at $100; Florence at $30; Lancaster at $11; Union, R. D., at $1.37.

Santa Rosa has met with a large business at $5@8; Coso has sold at $4@4½.

Real del Monte is in less request and at reduced rates. It has declined during the week from $86@90 to 65@70. Another shipment of bullion of $12,000 was made on Wednesday.

Wide West has slightly improved, and may be quoted at $24@25.

Antelope has dropped to $175, with but a single transaction noted.

Bodie Bluff has sold at $1½; Willow Springs at $2.

Reese River Pioneer Stock and Exchange Board.

The following are the proceedings of the Reese River Stock and Exchange Board, for the week ending April 14th, as reported in the *Reville:*

REESE RIVER DISTRICT.—Burrington, $15 asked; Emma Funston, $8 asked; Kickapoo, $8 asked; Kate Wade Tunnel, $1 asked; Maggie, $20 bid, $500 asked; Mills, Post & White, $10 asked; Southern Light, $15 bid, $22,50 asked; Smith & Martin, $3,50 bid, $12,50 asked; Wall. $40 asked; Eclipse, $10 bid; Southern Light, $12,50 bid, $20 asked; Smith & Martin, $2,50 bid.

AMADOR DISTRICT.—Rough & Ready, $20 bid, $30 asked; Wild Wood Tunnel, $4 asked.

SMOKY VALLEY DISTRICT.—Everett, $100 asked, $25 bid; Mountain Co. $8 asked.

AUGUSTA DISTRICT.—Sister Series, $10 asked; Augusta, $7 asked.

SAN ANTONIO DISTRICT.—Valencino, $2 bid.

MISCELLANEOUS.—Ethan Allen, $20 asked; Wm. B. Astor, $5 asked; Yates & Yandle, $4 asked; Silver Star Co., $2 asked; Jefferson Ledge, $2,50 asked; Lapine Ledge and Tunnel Co., $5 asked.

Legal Tender Notes.

San Francisco, Friday April 22.....60 per cent.

THE BEST TIME TO CUT TIMBER.—This subject has often been discussed in the agricultural *journals*, and various opinions expressed. Mr. Ambrose Kimball, of Reading, Mass., writes to the Boston *Recorder* as follows:

"A short time since I saw a statement on this subject in a newspaper. I wish to give my own experience and observation for over fifty years, constantly working and using all kinds of timber, more especially oak, ash and walnut. I have learned by dear experience, for I have lost much by the effects of worms in my timber, and have found when timber may be cut and have no worms, or powder dust, as it is called. Cut timber from the middle of September to the middle of November, and you can not get a worm into it. October and November are perhaps the best months, and sure to avoid the worms."

RICH MINES.—The Downieville *Messenger* says that the diggings at Rock creek are paying at the rate of $10 per day to the hand, which is a fair average. The Forest Company have lately struck a streak of heavy gold, 4, 6 and 8 oz. pieces being quite common.

NEW SMELTING WORKS.—A company has been organized for the purpose of erecting copper smelting works at Genesee Valley. They intend commencing work immediately.

The *Mountain Messenger* says: We deem it worthy of note, and count it a good augury, that the first money we received after coming to Downieville, was paid us by a minister of the gospel.

PROFESSOR AGASSIZ says that a grasshoppers, organs of hearing are in his legs. Of course, when in doubt as to threatening danger, he is enabled to jump to a conclusion and a safe position at the same time.

SALIVATED.—A number of firemen, who were engaged about the late fire at the Gould mill in Virginia, were badly salivated by inhaling the fumes of quicksilver given off from the amalgam in the pans.

MOUNT DIABLO.—Prospecting is going on quite extensively in the bowels of this mountain.

A Man in Albany gave a $500 piano to the Sanitary Fair—took one ticket himself in the lottery, and got the piano!

There are eighteen persons confined in Castle Thunder, charged with attempting to assassinate Jeff. Davis.

It is full of the most valuable reading matter. Those at all interested in mining affairs should subscribe for it at once.—*Alameda Gazette.*

It is devoted to news, art, science and progress, and should receive a liberal support.—*Solano Press.*

[Written for the Mining and Scientific Press.]

The Howell Crusher.

Messrs. Editors.—In your issue of the 9th inst. is given an Extract from the Colorado *Mining Journal* of the 12th ult., entitled "Desulphurizing," in connection with which mention is made of the "Howell Crusher," and subjoined thereto a few editorial remarks upon the *availability* of that machine.

In the belief that these remarks were dictated solely for the advancement of the interests of the mining community, less hesitation is felt in addressing you touching our past experience with that machine and its future prospects as a pulverizer.

When that machine was first introduced the revolving arms were cast solid in one piece with the hub, so that when worn off at the ends both had to be thrown away, thus entailing a heavy loss, not commensurate with the amount of work done. For this reason those machines could not be considered a success. To remedy this, however, plates were so attached to the hub, in lieu of arms, so that when their ends were worn off they could be easily removed and replaced by new ones, which diminished the loss by wear to such an extent as rendered the "Crusher" to the mining community available at last.

With this leaf from the history of the Howell Crusher before you, we think upon a careful perusal of the paragraph in question that you will see you have fallen into a natural misapprehension of its tenor, arising from a probable typographical error, wherein it is said that the Crusher "has, after numerous experiments as to the best materials for shoes, and the most profitable rate of speed, been rendered available at *least*," instead of available at *last*. That this was the intention, is clear from the concluding sentence of the paragraph, wherein it is said that "the progress with the Howell Crusher *alone* has been in the highest degree satisfactory;" that is to say when used independently of the desulphurizing process, and to which the other remarks of the paragraph have reference.

If such is true of the machines sent out to Colorado last year, how much more so is it when compared with the improved machines we are now building at the Vulcan Iron Works, in this city, in which are embodied all the improvements necessary to remedy these and other defects developed by experience in the use of this machine, and to which we now beg to call your attention, believing that they not only overcome all the objections so clearly pointed out by you, but will render them a prime necessity to all well managed mines.

The wear of the beaters is caused by the friction of the material as it is projected outward against the toothed rim and by the action of the dust at the end. Now as the pressure at any point is dependent on the curvature, distance from the center and direction of tangent, it is clear that it could easily be controled by the application of such a curve as would lessen and equalize the pressure from near the center to the end of the arm. But it has been found by experience that the wear at the end caused by the action of the fine dust is greatly in excess of that of the other, so much so that after the end of the beater has been worn down to one and a half inches, the effect of friction on its face could hardly be observed. In consequence of this, the working face is now made in two pieces, of which the tip or wearing end forms but one fourth of the whole. The amount of wear itself is now lessened by a more free and liberal discharge than formerly. The old discharge consisted in a pipe, of about six inches in diameter, forming an elliptical opening in the side plate and extending from the teeth toward the center; and as the space between the teeth and the tips of the beaters measured only about one and a half inches, by far the greater portion of the outlet extended within the range of the beaters. Now as air is discharged only as a medium to carry out the dust, the same ought to be discharged from where the dust is formed, that is to say from the annular space above mentioned. It is clear, therefore, that with the old discharge a great deal of air is expelled without dust, and the object in view could only be obtained by an increase of pressure or speed, causing the air and dust to vibrate backwards to find a passage within the range of the beaters; thus wear was increased and power wasted, the latter increasing with the square of the velocity.

Our present machine obviates this by the use of a semicircular discharge, having an opening two inches wide, and covering the annular space before mentioned. The air and dust is received within a spiral passage, which is so connected with the discharge tube as to allow the unpulverized pieces to drop back through a small aperture within the path of the beaters. The air issuing from this opening having, by virtue of its location, less pressure, has little power to resist the return of the coarser grains to the machine. By means of an adjusting valve, the draft in the spiral passage can be so regulated as to adapt it to the fineness wanted and the nature of the substance to be pulverized.

This Crusher, thus constructed, we now maintain is less subject to wear, for the same amount crushed, than any machine or machinery used for that purpose which has been put into successful operation. Let us compare it with that of stampers: The shoe of a stamper of 600 pounds will average say 30 lbs., and wear out in crushing say 40 tons of hard quartz. Experience shows that the end of a cast iron beater, three-fourths of an inch thick, will wear down one and one-half inches for every 35 tons crushed. It will therefore be very reasonable to assume that a beater one inch thick, made of better material, and allowing for wear two inches, will crush at least 40 tons. Having three beaters, and each tip weighing about two and a half pounds, our wear for the same amount crushed will be to that of stampers as 7½ to 80 or about one-eleventh part as much, while the wear on the rim is not one-tenth as great as that of the dies of the stampers, a point in favor of our machine which cannot be overestimated when we consider the cost of transportation in this country. The next point of primary importance relates to the strength or safety of the beaters. Our beaters are now so constructed that the strain produced by 2,500 revolutions exerts on the weakest point only one-tenth part of the strain necessary to cause fracture.

San Francisco, April 19th, 1864. ***

The Reese River Mines.

NUMBER II.

THE REESE RIVER DISTRICT.

I have said that this district extends from San Francisco Cañon on the north to the Veatch Cañon on the south, Pony Cañon being about midway. Just at the entrance to this cañon the first discovery of silver was made, by a Pony rider named Talcott, and the ledge very appropriately named the "Pony," and directly after the "Latham" was discovered, just on the opposite side of the cañon. The town of Clifton lies immediately below them. Both these ledges are undoubtedly good, but from being badly managed have fallen into disrepute, especially as there are certain parties owning large interests in them who never pay a dollar towards developing the mines. Discoveries were made about one mile higher up the cañon, of ledges surpassing these in richness; the town of Austin was laid out, and the rush commenced. Back of Austin, on the north side of the cañon, are a couple of hills called respectively, the "Austin" and "Lander;" it is here that most of the rich ledges with which the public is familiar, are situated; besides a great many good ones quite unknown to fame.

On the Austin hill are the Morgan & Muncey, Savage, Seymour, Southern Light, Blue Ledge, North Star, Oregon, Florida, Manhattan, Cincinnati, and Black Rock. On the Lander hill to the left are the Post Hole, Plutus, Providential, Mills & Post Louisiana, Douglass, Hooker, Lander, Wells & Warner, Smith & Martin, and Samanthe. Any of these ledges have ore which will yield from four hundred to six thousand dollars per ton; the latter being, as a matter of course, from selected rock. Several of these have yielded small lots of ore which have assayed as high as $22,000 per ton, and this of silver alone, there being no gold whatever in the rock.

Austin has been contemptuously termed the 'Razor Back" district, and the assertion has been made "That the ledges have no casings." He who says this is certainly not a scientific miner, and never could have examined any of the mines which have been opened, very closely. I no not deny that many of the mines are narrow at the surface, and that they get narrower or pinch off a short distance below; but in every instance where sufficient work has been done, and a shaft or incline pushed down to the water line, the ledges have been found to increase in width and richness, giving every promise of permanency.

I shall have occasion to mention many ledges by name in the course of these articles, and will here state that my object is not to puff any particular mine, but to name them as illustrating the characteristics of the districts. There is every evidence here of some grand convulsions of the earth having taken place at some remote period; this is everywhere apparent from the San Antonio District on the south (which is as far as I have been) to many miles north of Austin. In the slate formation the effect was to break off the outcrops, and tumble and cast them down the hills, the angle and dip of the strata underneath remaining unchanged. This is seen in the Liberty ledge at San Antonio, a great mass of tumbled rock having been located for a ledge, while the true ledge was found several hundred yards higher up. So too with the General Banks, in the Amador district; this latter being a break off from some ledge higher up the hill, probably from the Amador.

In the granite formation the effect was different; the granite having lateral seams, the disturbance caused the overlying stratum to slide upon the under without altering the appearance of the *surface*. Of course the quartz veins were cut off and the separated portion carried with the slide, leaving a seam of finely broken quartz and clay between the upper and lower strata. This is very plainly seen in the ledges around Austin, which accounts for their being called "Razor-backs." The North Star ledge commenced at the outcrop with a width of about 20 inches; at about thirty feet it thinned down to about six inches; but at sixty feet the vein was found solid; from that it widened until at about two hundred feet down on the incline (which would make about sixty feet perpendicular depth) it has a width of forty five inches of ore unequaled in richness. More than one half of the ledge is antimonial or ruby silver; much of the other half being very rich black sulphuret and chloride. There is a fine clay casing at the foot, and hanging walls. The *third* class ore from this mine works in the mill over five hundred dollars per ton. The Oregon and Florida, first above, exhibit the same effect of the slide, and both have the same class of ore, with good solid ledges—from twenty-four to forty inches in width, and are increasing in richness as they go below the water level. On the other hill the same effect is to be seen in the Lander and Plutus. The latter commenced with the ledge nearly three feet wide. At twenty feet down on the incline, there was nothing to follow but the admixture of broken quartz and clay; this gradually thickened until at a distance of eighty feet down, the ledge was found solid and undisturbed, and having a width of about forty inches, with casing of clay three inches thick. When the shaft is carried down below the water level there is no doubt this will have the same class of ore as the others—and the Lander the same. In my opinion there is not a ledge in the vicinity but will prove rich and permanent when followed down below the water level. There are many claims located, which are not ledges and cannot be called mines—small transverse seams of quartz not more than three or four inches in width; the Mexican miners call them "Hilos"—of such, those who desire to invest money in mining, should beware. People have not been cautious enough in their speculations. Last summer many who came to Austin got excited at each discovery and were too eager to buy feet, at any price from twenty to fifty dollars, not even taking the trouble to enquire who were their copartners in the claim. There are a great many good ledges both north and south of Austin, but as they all present the same characteristics, it is not necessary to name them. Many very excellent mines have been almost ruined by bad management and incompetent superintendents. I may mention the Yankee Blade as an instance. If one end of that ledge is worth one hundred and fifty dollars per foot, there is no reason why the other end should not be worth more than *fifteen*. Men have been sent to Reese River to superintend mines, who have no knowledge whatever of the business. It does not follow that because a man is an accomplished steamboat captain or a successful drayman, that he should be a good mining engineer A.

[Written for the Mining and Scientific Press.]

The Kohler Brothers, and Other Mines.

Messrs. Editors.—Many of your readers are desirous of knowing the exact location of the Kohler Brothers mine, the stock of which now forms one of the features of the mining share market, and is bought and sold daily in the stock boards, and which has risen from seven dollars and a half to twenty-four dollars a share in the last two weeks and is still going up. For their edification I cite them to the following facts derived from personal observation:

Although unfortunately I am not an owner, I have

been at two of their mines several times—the mine Rica and the Esperosaña; they also own another, reputed very rich, which is called the Salegena mine. These mines are located in the District of San Antonio, in Lower California, Republic of Mexico, about eighteen miles from Ventona Bay, forty-eight from La Paz, and one hundred and fifty north of Cape St. Lucas. The Mexican steamer stops at these ports three times each trip, twice at Cape St. Lucas and once at La Paz; and Wells, Fargo & Co's express passes from one point to the other, through the town of San Antonio. The Company are running a fine tunnel into the Mina Rica, from which mine they have obtained rich metal, although they have not yet struck the main vein. This mine is on the San Joaquin veta, (vein) on which is also located the Santa Cruz, Trinidad, San Jose or Peninsular Company, the San Antonio, Picocho, Gobernadora and San Joaquin mines, all of which are taking out more or les *petanque* silver ore, or "metal de Fuego." This vein is exceedingly rich in places, but is somewhat narrower than the other veins of the district, seldom running wider than twelve feet in the widest part.

The former owner of the Mina Rica realized about $70 000 in three months from the mine on two separate occasions, and the second time became so excited with his good fortune that he went to Mazatlan on a spree, and while in a state of delirium cut his throat. Having no heirs, the mine fell back to the Government and became denounceable. The Esperosaña mine is on the San Nicholas vetas. The San Nicholas vetas, or veins, are three in number, running parallel with each other, and parallel and about a mile from the San Joaquin veta. The San Nicholas veins are noted for their richness and extreme width—in places being fifty-six feet thick from casing to the cap or wall rock. On these veins are the oldest and best mines of the district. They are worked by the different companies for a space eight miles in length. On the south of the Esperosaña mine is the Guasave, belonging to the Franco-American Company, who have a fine mill and furnaces for reducing ores. They have a vein of fine metal eleven feet thick in the shaft. The next south is the Pesorana, belongiug to the Mexicans, who are working their ore in the old style of ovens, and sometimes they sell a few cargoes. Several companies still adjoin on the south; but I did not visit them and can only speak from hearsay that they have an abundance of metal. The first company on the north is the San Nicholas, belonging to the house of Melcher & Brothers, in Mazatlan. It is superintended by Conrad Flores, who works it in the old Mexican style of ascending and descending the shafts in zig-zag shape on notched poles, with the ore on the peons' shoulders or backs.

Flores shipped to Freiberg in 1862 twelve hundred tons of ore at a clear profit of one hundred and forty dollars a ton; and in 1863 he shipped to the same place one thousand five hundred tons at a clear profit of about one hundred and eighty dollars a ton. This year he is buying ore from other companies and paying from thirty to forty dollars a ton, which will probably increase this year's shipment to treble the amount of last year. The next is the Codecia mine, cornering in for a short distance on the three veins, and then claiming on a supposed feeder. They are taking out very rich ore from one vein in this mine which assays in the thousands; it belongs to San Francisco men. The next is the St. Louis, belonging to some of the Moreno Brothers, who have a fine body of metal, but they work it very slow. The next is the Peña, belonging to San Francisco men; they have a very fine body of metal in the shaft, and will soon have their tunnel into the vein. This is considered a very rich mine, from the richness of the *azogue* metal, or top and oxadised ores. The next is the Soledad, belonging also to Melcher & Brothers, and is worked the same as the San Nicholas. The next is the La Marroreña, owned by San Francisco men; this company have out two hundred and fifty tons of the richest ore on the peninsula. Shares in this mine have been ranging from sixty-five to one hundred and ten dollars each; there are one thousand shares in the company. The next mine is the Maria, owned by Christopher Mchmidt and others; it is the same size as the Esperosoña—six hundred feet long—and full of fine ore; it will be a rival to the best. The next three companies are Mexican, working in their own style. The next is the Mendocina mine, belonging to the Trinnfo company; they are getting out splendid ore and hauling to their mill, which is expected to start in about two weeks. They expect to come up to the best ore in the camp, and bid fair to do so.

All of these mines have, by the Mexican laws, six hundred feet in width, and most of them are two thousand six hundred feet in length, on the veins. The Kohler Brothers company own two mines of two thousand six hundred feet each, and one of six hundred feet. The company is divided into five thousand shares. If their Esperosoña mine, from which they can now extract twenty-two tons of rich ore daily with seven hands, was in Washoe, it would command two thousand five hundred dollars a share, instead of twenty-five dollars—although freight and labor is five hundred per cent. cheaper in lower California. There are many other mines in the vicinity of those mentioned, and some perhaps equally rich.

H. L. P.

Commencement Day.—The first Commencement Day of the College of California, at Oakland, occurs on the first day of June, and is of peculiar interest to all the friends of edneation throughout the State. The anniversary address will be pronounced by Hon. Newton Booth, of Sacramento, and the poem by F. B. Harte, of this city. This commencement, says the *Pacific*, will have an additional interest from an invitation which will be extended to the Alumni of other colleges, residents in this State, to come together at Oakland, on the day preceding, for purposes of literary fellowship. An oration will be pronounced on that day by John B. Felton, Esq., of San Francisco, and a poem by C. T. H. Palmer, of Folsom. Every collegiate graduate in the State, whose name could be ascertained, has been invited to attend, and no doubt this occasion will be one of great interest to the *literati* of the State.

Assessments upon Stock of Corporations.—The eighth section of the Act concerning assessments upon the stock of corporations is as follows, referring to advertisements of sales of stock for non-payment of assessments:

Section 8. Said last-named notice shall state every certificate of stock separately, with the number of shares which it represents, and the amount due thereon, except where certificates may not have been issued to the parties entitled thereto, in which case the number of shares and the amount due thereon, together with the fact that the certificates for such shares have not been issued, shall be stated.

In looking over the list of advertisements referred to, as published in the press of this city, we find not a few which do not meet the requirements of the section quoted above. Would it not be worth the while of mining secretaries to see that their advertisements correspond with the requirements of this Act?—*Morning Call.*

The editors of the *Call* should have at least read the afore-mentioned Act in full before attempting to advise mining secretaries how their advertisements should appear. Although the new law is magnificently mystical in some of its provisions, the following section is certainly plain enough in contradiction of the opinion expressed above by the *Call:*

Section 15. All acts and parts of acts inconsistent with the provisions of this act are hereby repealed; provided that such repeal shall not affect proceedings commenced for the collection of assessments heretofore levied, but all such assessments may be collected in accordance with the provisions of the laws then in force.

Indurating Iron and Protecting it from Oxidation.—Mr. J. Webster proposes to effect this in the following manner. The indurating compound consists of equal proportions of carbonate of potash and American ash pulverized and mixed together, to which hydrochloric acid is added until carbonic acid gas ceases to be given off, when the mixture is put into a close vessel or retort, and heated to drive off the water and reduce the mass to a homogeneous liquid state, after which it is run off and cast into blocks, which become solid on cooling. This mixture (which may be called No. 1,) is roughly pulverised and added to prussiate of potash (also roughly pulverised) in the proportion of 17 per cent of the former to 83 per cent of the latter, and the whole melted in a close vessel and cast into blocks, which, however, must be again liquified for use, and which may be called No. 2. The metal to be treated is heated to a bright red heat, and dipped into preparation No. 2, and then left to cool, when the hardening process is complete. For protection from oxidation, a varnish is prepared, consisting of 50 per cent of paraffin oil, 15 per cent of naphtha, 3 per cent of tar, about 3 per cent of mixture No. 2 in a pulverised state, 20 per cent of rosin, and about 10 per cent of tar oil. This preparation answers for rough articles, but for finer articles it will be found advisable to add a small proportion of gutta percha with sulphide of carbon in addition to the naphtha as its solvent.

ENLARGEMENT

—AND—

Important Improvement

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Sales by the Stock Boards of San Francisco.
Sales by the Stock Board of Virginia City.
Sales by the Stock Board of Esmeralda.
Sales by all Mining Stock Boards.
Reports of Bids and Sales in San Francisco.
Reports of Bids and Sales in the Territory.
A Weekly Review of the Stock Markets.
A Weekly Review of General Mining Interests.
General Summary of California Mining News.
General Summary of Mining everywhere.

Valuable Information for all Miners.
Indispensable Knowledge for practical workmen,
Practical Suggestions for intelligent artizans.

Valuable Facts and Statistics

Essential to members of all trades and professions; the best approved methods of mining; the latest discoveries and inventions in mining operations; practical, scientific views upon geological and mineralological questions; the proper methods of reducing ores and saving the precious metals. In fact every sentence calculated to lessen the number of hard blows uselessly rendered by miners and working men, and add wealth by intelligent saving of material or labor, will find welcome space in our columns. The paper will afford many

Practical Hints

With regard to the manner of working and securing mines, derived from the actual experience of parties in our own and other countries. Also hints concerning the location and possession of mining grounds; the laws peculiar to different districts and countries; and notices of all important decisions of the law in mining cases. As a

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The bound volumes of the Press will find no rival in value to the intelligent and industrious citizens of the Pacific Coast, who cannot but feel a source of pride in the history of the inventions, discoveries and prosperous developments of the remarkable era through which we are now passing.

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As presented in our columns will be found correct, distinct and most convenient for preservation and future reference.

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As a paper for mailing regularly to your friends in the East, or to correspondents elsewhere, none can be selected more appropriate, or better calculated to dispense reliable information with regard to transpiring events on this coast and the progress of California.

Specimen copies will be sent free to those desiring to examine the paper before subscribing. Postmasters, Express Agents and Newsdealers, acting as our agents, will receive liberal commissions.

Friends pleased with our efforts in the publication of the Press can render us essential aid by furnishing correspondence and all important information which may come under their observation, and by calling the attention of their neighbors to the commendable features of the paper; the appreciation of which favors will be duly manifested by the constant improvement of our journal.

Office in Government House, Nos. 56 and 57, corner of Washington and Sansome streets, San Francisco.

DEWEY & CO., Publishers.

C. W. M. Smith.....W. B. Ewer.....A. T. Dewey.

It is Impossible for editors to know all the merits and demerits of their correspondence, consequently the reader must not receive the opinions of our contributors as our own. Intelligent discussion is invited upon all sides, and the evidence of any error upon our part will be received in friendship, and treated with respect.

Mining Laws Passed at the Late Session of the Legislature.

Mining Partnerships.

AN ACT Concerning Partnerships for Mining Purposes.

Section 1. All written contracts of copartnership for mining purposes upon the lands of the United States within this State, formed by two or more persons, shall be subject to the conditions and liabilities prescribed by this act.

Sec. 2. Any member of a copartnership, or his successor in interest in any mining claim, who shall neglect or refuse to pay any assessment, or shall neglect to perform any labor or other liability incurred by the copartnership agreement, may, after the expiration of sixty days after such assessments, labor or other liability has become due, be notified in writing by any remaining partner or partners, or by his or their agents, that such assessment, labor or liability is due, which written notice shall specify the name of such mine and the district wherein it is located, and shall particularly mention the liability which has been incurred; and if such delinquent reside within the State, he shall be personally served with such notice; and if the person so notified shall refuse or neglect, for thirty days after service of such written notice, to comply with the requirements of the copartnership agreement, the remaining partner or partners may sue the interest of such delinquent partner in and to such mining claim.

Sec. 3. All sales under the provisions of this Act shall be at public auction and by giving five days notice thereof, by posting written notices in three public places within the mining district where such mine is located. The notice shall also specify the extent of the interest to be sold and the name of the delinquent partner or partners, and the time and place of such sale, which place shall be within the district where the mine is located. The purchaser at such sale shall acquire all the rights and title of the delinquent partner.

Sec. 4. If any delinquent partner in any mine is absent from the State, or resides in any other State or Territory, the notice to such delinquent shall be by publication once a week for four months in some newspaper published in the county where the mine is located; or, if there be no newspaper in the county, then such notice shall be published in some newspaper in an adjoining county. After the expiration of the time of such publication, the interest of such delinquent shall be sold, in the manner prescribed in section third of this Act.

Sec. 5. This Act shall take effect from and after its passage.

Approved April 4, 1864.

Removal of Offices from Aurora.

AN ACT to authorize the removal of the office and principal place of business of Mining and other Corporations, from the town of Aurora in the Territory of Nevada to the city of San Francisco, or other places in the State of California.

Section 1. It is hereby declared lawful for any Corporation heretofore organized under the laws of this State, whose principal place of business is in the town of Aurora, Territory of Nevada, and such Corporation is hereby authorized and empowered to remove its office and principal place of business to the city of San Francisco, or to any other city or town in the State of California, as such Corporation may select by a resolution of the Board of Trustees thereof adopted in accordance with its By-laws.

Sec. 2. Every such Corporation desiring to make such removal shall file in the office of the Clerk of the City and County of San Francisco, or of the City and County of Sacramento, or of such County in this State wherein is situated the city or town to which such Corporation desires to remove, a certified copy of such resolution, under their Corporate Seal, together with a certified copy of the original Certificate of Incorporation now on file in the office of the Secretary of State, and shall also deliver a certified copy of such Resolution to the County Clerk of Esmeralda county, Nevada Territory, and shall cause the same to be published for four successive weeks in some newspaper in the said town of Aurora, and from the time of the filing of the said instruments in the Clerk's office of the proper county in this State, the office and principal place of business of such Corporation shall be deemed removed to and established at such city or town in this State as may be declared in such Resolution.

Sec. 3. The Resolution heretofore passed by the Board of Trustees of any Corporation, whose office and principal place of business has heretofore been in the town of Aurora, removing such office and place of business to any city or town in the State of California, is hereby legalized and declared valid and effectual, and from the time of the passage of such Resolution, all acts and proceedings of the Trustees of such Corporation, had or done in such city or town in this State, are hereby declared and made valid and effectual, in law and equity, as fully to all intents and purposes as though such city or town had been originally designated in the Certificate of Incorporation of such Corporation as the principal place of business thereof, *provided* that such Corporation shall, within sixty days from the passage of this Act, file in the office of the County Clerk of the county wherein such city or town is situated, a certified copy of such Resolution, attested by their Corporate Seal, together with a certified copy of the Certificate of Incorporation of said Corporation now on file in the office of the Secretary of State.

Sec. 4. This Act shall take effect from and after its passage.

Became a law (by limitation) the 27th of February, 1864.

Transfer Agencies.

AN ACT to authorize Corporations organized in this State for the purpose of Mining in or without this State, to establish and maintain Transfer Agencies in other States.

Section 1. That it may be lawful for any corporation organized in this State for the purpose of mining, or carrying on mining operations in or without this State, to establish and maintain agencies in other States of the United States for the transfer and issuance of their stock, and a transfer or issuance of same at any such transfer agency, in accordance with the provisions of this statute, shall be valid and binding, and as fully and effectually so, for all purposes, as if made upon the books of such corporation at its principal office within this State.

Sec. 2. All stock of any such corporation issued at any such transfer agency, shall be signed by the President and Secretary of the corporation, and countersigned at the time of its issuance by the agent or agents of such corporation having the charge of such transfer agency, and no stock shall be issued at such transfer agency, unless the certificate or certificates of stock in lieu of which the same is issued, shall, at the time of such issuance, be surrendered for cancellation.

Sec. 3. The stockholders of any such corporation may pass by-laws for the regulation and conduct of any such transfer agency; provided the same be not inconsistent with the provisions of this Act; and such transfer agency shall at all times be subject to the control of the Trustees of said corporation.

Sec. 4. All acts, or parts of acts, inconsistent herewith are hereby repealed.

Sec. 5. This Act shall take effect from and after its passage.

Approved April 4, 1864.

Changing Place of Business.

AN ACT to authorize Mining Companies or Corporations to change their principal place of business.

Section 1. Any Mining Company or Corporation lawfully organized and incorporated for mining purposes within the State of California may change its office or principal place of business by first obtaining the consent in writing of the Stockholders representing two-thirds of all the Capital Stock of the Company, provided that notice of such intended change, after such consent shall have been obtained, shall be inserted for thirty days in some newspaper published at or nearest the principal place of business of said mining Company or Corporation, designating the county, or city and county to which it is intended to remove, before such removal shall be deemed lawful.

Sec. 2. Any Mining Company or Corporation availing itself of the privileges of this Act, upon filing in the office of the County Clerk, or city and county to which a removal is intended to be made, a certified copy of its Articles of Incorporation, together with a Certificate of the Trustees of the Company or Corporation, under the Seal thereof, that the requirements of Section One of this Act have been fulfilled, shall, from the time of such filing, be vested with all the powers in its new place of business which it might or could have exercised if originally incorporated in the county to which its office or principal place of business shall be removed.

Sec. 3. This Act shall not be so construed as to authorize any mining Company or Corporation to remove its office or principal place of business out of the State.

Sec. 4. All Acts and parts of Acts inconsistent with the provisions of this Act are hereby repealed.

Sec. 5. This Act shall take effect and be in force from and after its passage.

Approved, February 15th, 1864.

Two circular saw-mills have been set up by the Yankees at Vicksburg, which are turning out large amounts of fine timber.

Memoranda
FOR MINING SECRETARIES
ADVERTISING NOTICES ON SATURDAYS.

DATING OF ADVERTISEMENTS.

Assessments levied by order of the Board of Trustees of Mining Companies will be duly advertised, in strict accordance with the new law, in the Mining and Scientific Press by observing the following rules, which we publish for the purpose of assisting Secretaries in expediting their business, and avoiding the possibility of errors in regard to dates:

When the order for an assessment is made on MONDAY, TUESDAY, WEDNESDAY, THURSDAY or SATURDAY of *any week*—

THE NOTICE OF ASSESSMENT may appear on the FIRST SATURDAY subsequent to the order.

THE DAY FOR THE NOTICE OF SALE to appear may be fixed on the FIFTH SATURDAY subsequent to the order.

THE DAY OF SALE may be fixed on the SEVENTH SATURDAY, or any day (except Sunday) from that date to the EIGHTH FRIDAY, subsequent to the order.

Owing to the arbitrary provisions of the new law (the original bill of which deprived the mining public of the benefit of their choice of advertising in weekly journals), no assessment can be made upon any Friday, and the publication of the Notice of Sale be made weekly in the Saturday issue of any daily or weekly newspaper. *But* all *Notices of* Assessment *can duly appear on Saturday*; also, Notices of Sale except in cases where the order for assessment is dated on Friday.

Revised Copies of advertisements will be furnished gratuitously to Secretaries who desire advertising near the mines.

Advertisements should be handed into the office as early in the week as possible.

Our columns are considerably wider than those of the daily papers, and consequently more words are contained in a square of our matter.

DEWEY & CO., Publishers,
Mining and Scientific Press, 56 and 57 Government House, corner Washington and Sansome streets, San Francisco.

FORM OF NOTICES—NEW LAW.

[NOTICE OF ASSESSMENT.]

[Thunderboldt Gold and Silver Mining Company, Virginia District, Storey county, Nevada Territory.]

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the [4th day of April, 1864], an assessment of [twenty-five cents] per share was levied upon the capital stock of said Company, payable on the [5th] day of [April, 1864,] to the Secretary, or to John Brehard, Superintendent, at the mine]. Any stock upon which assessment shall remain unpaid on [Saturday, May 7th, 1864,] will be advertised on that day as delinquent, and, unless payment shall be made before, will be sold on [Saturday, May 21st, 1864, at 12 o'clock, M.,] to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees,

[JOHN HANCOCK, Secretary.
Office, Room 77, No. 224 Montgomery street, San Francisco.]

[NOTICE OF SALE.]

[Thunderboldt Gold and Silver Mining Company, Virginia District, Storey County, Nevada Territory.]

Notice.—There is delinquent upon the following described stock, on account of assessments levied on the [fourth day of April, 1864], the several amounts set opposite the names of the respective shareholders, as follows:—

NAMES.	NO. OF CERTIFICATES.	NO. OF SHARES.	AMOUNT.
Jas. Dixon.....	24	18	$26 28

And in accordance with law, and an order of the Board of Trustees, made on the [fourth day of April, 1864], so many shares of each parcel of said stock as may be necessary will be sold at [the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco,] on [Saturday, May 21st, 1864, at 12 o'clock M. of said day], to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

[JOHN HANCOCK, Secretary.
Office, 224 Montgomery street, San Francisco.]

WASHOE MINING ITEMS.

The Rhode Island Mill is putting up a new battery of 15 heavy stamps. When the improvements now in progress on this mill are fully completed, it will be one of the best and largest mills in Gold Cañon.

A Big Tunnel.—The Gold Hill and Virginia Tunnel is on the grandest scale of any similar work in the Territory. It starts in a short distanee below the Caledonia Tunnel, some distance helow Gold Hill, and is now in some hundreds of feet. The tunnel is suffieiently large to admit of horses heing used in pulling out the cars. The work is under the very effieient supervision of Col. David S. Turner.

The Kenosha Company, on Cedar Hill, north of Virginia, have struek a spur of rock, rich in gold, in their shaft, at the depth of 130 feet. They have been looking for it several years.

The Justis Company have eonclnded to erect steam hoisting works at onee. Whim hoisting has got to he too slow to suit their go-aheadativeness.

New Mill.—Mr. Land, of the Cedar Hill Mill, is about to ereet a fine new mill a few hundred yards helow the Pioneer Foundry, on the road to Silver City. It will be in operation hy the middle of July.

The Overman Company have a large force of mechanics at work putting up hoisting machinery at the mine. Their works are intended to be equal in capacity and finish to anythiug of the kind in that vicinity,

The Pride of America Tunnel is now in 800 feet, where, according to the Gold Hill *News*, they have a fine and apparently inexhaustible ledge of good paying rock. The ore is quite different from that usually found in Gold Hill district. The rock is being crushed at the Spanish Mill, Empire City, and is said to pay from eight to one hundred dollars per ton. The Pride of the West, it will he recollected, is now a dividend paying mine. It is located in the Devil's Gate district.

La Mina de la Alto.—According to the *Enterprise* some roek of extraordinary riehness has lately been taken from this lead, which at first was hut a few inches in width, but which is now ahout four feet wide, with indications that it will become still wider at a greater depth. Some ore taken from the lead at the depth of abont 10 feet, which was assayed by Leopold Kuh, showed in silver $735 90, and in gold $649 35 per ton, making its total valne per ton $1,385 25. Fifty pounds taken out across the lead, and supposed to he a fair average of the ore it contains, was worked by the Ophir mill process, and payed at the rate of $380 13 per ton. A ton of the ore is now heing taken out for a further mill test. This mine is situated nearly, or quite a mile west of the Comstoek and near the summit of Mount Ophir. Should it be found to widen wheu sunk upon and still remain as rich as at present, it will certainly he very encouraging to the Oole Company and to other companies at work on leads lying betweeu the Comstock and the La Mina De La Alto.

Discovery of Plumbago.—The Territorial *Enterprise* speaks of a vein or bed of plumbago that has been struek in the Kentucky tunnel, near Amerieau Flat. The tunnel has now cut into it to the distance of 50 feet and, as it has not yet passed through it, its full extent is not yet known. Mr. George R. Scott aud others have taken up a claim 1,400 feet in length on the lead, under the name of the Scott and Bergen Plumhago Miniug Company. There would appear to he enough of this mineral in this one bed or vein to supply the demand throughout the American world. This mineral is known to mineralogists under the uames of graphite and carburet of iron, but is best known hy the eommon names of plumhago and black lead. It is used in the manufaeture of pencils, for crucibles, in lubricating compounds, and as a polisher for iron work. There is also another deposit of this mineral near the Ophir Grade, a few miles east of Washoe City, (where at one time, fire-proof brieks were manufactured of it,) and it has heen found in other places in the Territory.

The most famous plnmhago mine in Europe is in England, in a mountain called Seatallor Fell; bnt this, once so eelebrated for the purity of the mineral found in it, is now ahout worked out. The mine has been known and worked since the time of Queen Elizaheth. Formerly it was only opened onee in seven years, and then for but six weeks. The value of the mineral ohtained in this short space of time was sometimes as great as thirty to forty thonsand pounds sterling. Sinee a plan has been discovered of purifying this common and coarser varieties, the value of the mineral has deereased until at present it is very eheap. Plumbago is found in a number of localities in the Atlantic States. The mines affording that hest for pencils are near Sturbridge, Massachusetts, though mines have also heen diseovered at Brandon, Vermont, Fishkill and Ticonderoga, New York, Wake, North Carolina, at St. John's, New Brunswiek, and in various other plaees.

Business Cards.

COMMISSIONER OF DEEDS
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Stock and Exchange Brokers,
No. 614 Montgomery st., Stall No. 5, Stock Exchange, San Francisco.
☞All kinds of Stocks Bought and Sold on Commission. 14

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Commissioner of Deeds for Nevada Territory.
Office, Montgomery Block, 630 Montgomery Street,
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REMOVAL.
THE OFFICE OF DEETKEN & CO'S METALLURGICAL WORKS HAVE BEEN REMOVED FROM 605 to 315 MONTGOMERY ST., SAN FRANCISCO.
16 A. MARCUS, Secretary.

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Members of the Stock & Exchange (1st) Board and of the Pacific Board of Brokers.
Stock Exchange Room, No. 546 Washington street,
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And Mining Secretary.
Office, No. 708 Montgomery Street, San Francisco. Reference—Messrs, Parrott & Co., Bankers. 8v8.tf

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Palmer's Patent
ARTIFICIAL LEG,
Manufactured in Philadelphia, Pa.
JARVIS JEWETT, AGENT.
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Office, S. W. corner Pine and Silver Sts., Aurora.
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MILITARY GOODS OF ALL DESCRIPTIONS. NAVY TRIMMINGS AND EMBROIDERIES. REGALIA FOR ALL ORDERS.
aug17-tf Masonic Temple, No. 6, Post Street.

Owen's River Canal Company.
FOR SALE, FOR ACCOUNT OF THE COMPANY, 7,000 SHARES of the above stock, at $1 per share. It is confidently presented to the public as the best investment, for the price, now offered this market.
Office of the Company No. 323 Montgomery street. 1tf

REPORT YOUR EXPERIMENTS.—How much that is learned by our intelligent and successful miners and mill men, is never communicated. Experiments are constantly going on, often with important results, which would impoverish no one, by being made public, while they might save thousands to the State if they could only be made generally known. We are quite confident that there are many who possess valuable information, acquired from experience, who have no objection to making the same public, and who do indeed, communicate it to their immediate neighbors; but no farther. Here is valuable information. Why not report your experiments through the MINING AND SCIENTIFIC PRESS, the accredited organ of the miners of this State? Tell us how you get certain results, that others also may profit. You have no fears of competition. The material you are producing—gold, silver and copper, are always in demand; there is no danger that the market will be overstocked; they will always sell. It matters not if you communicate in a hurried way, so you only send us facts. We will put the same into readable shape. Report your experiments.

MINING AND SCIENTIFIC PRESS.

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No. 16—APRIL 16, 1864.—Contains Twenty Pages.—Wagon Road to Southern California; Nova Scotia Gold Fields; Schools of San Francisco; Facts about Gold; Valuable Suggestions; Mechanical Department; Fair of the Mechanics' Institute; Stock Reports; Sales and Bids; Mining Share Market; Washoe Stock Market; A Nickel Mine; Fine Ore; Mining Gossip; Items; Great Improvement in Engraving; Interesting Experiment; Flax; Monster Gun; Ancient Tin Trade of Britain; Washington Mining District; Reese River Mines; Reese River Letters; Sacramento; Patent Department; Incorporations; Improved Steam Valve.

THE MINING AND SCIENTIFIC PRESS contains 16 pages in each No. and 416 in each volume; two volumes a year. Terms, in advance, 1 year $5; 6 mos. $3; 5 copies, 1 year, $20. For sale by all newsdealers. Liberal commissions allowed all who act as agents.

DEWEY & CO., Publishers.

Cor. Washington and Sansome streets, San Francisco.

Mr. A. T. Dewey, a journalist of experience, has become associated with Messrs. Ewer and Smith in the proprietorship and conduct of this paper. It inaugurated the new year by doubling its size and other improvements, and is now a first class journal for miners and mechanics, as well as for the general reader.—*Sacramento Daily Bee*

This journal comes to us this week with a new head and enlarged to the full size of the *Scientific American* published in New York—six teen pages. Those who take an interest in mining, underground art should not fail to read the prospectus of the PRESS, which may be found in our advertising columns, and those who may desire to see copies, intending to subscribe, will have specimens sent free on application by letter to the office of publication.—*Mountain Messenger, La Porte.*

MINING AND SCIENTIFIC PRESS.—This is one of our most valuable exchanges. It comes to us filled with the most valuable articles, original and selected, upon the subject of mining, and we subscribe to it to an awful extent. Every person engaged in mining to any extent, should be a subscriber to the PRESS.—*Gold Hill News.*

MINING AND SCIENTIFIC PRESS.—Having missed a few numbers of this excellent paper, we feared it had ceased to exchange; but as it has again resumed its regularity, we are a little easier on the subject. The MINING PRESS is an almost indispensable companion to the miner and mill man, and when in our peregrinations we find it in the cabin of the one or the office of the other, we look for, and invariably find, a superior intelligence and more satisfactory working than where it is unknown, and its precepts ignored. We would dislike to be deprived of it, either as editors, miners, millers, or mechanics.—*Reese River Reveille.*

RICHARD WEGENER,

Accountant, Mining Secretary,

AND GENERAL AGENT.

No. 204 Montgomery St., Southeast cor. Montgomery & Pine Sts.,

11-m SAN FRANCISCO.

THE ATLAS IRON WORKS,

No. 24 & 26 Fremont Street.

—MANUFACTURE—

STEAM ENGINES, MINING MACHINERY, QUARTZ MILLS, MINING PUMPS, AMALGAMATORS, AND ALL OTHER KINDS OF MACHINERY FOR MINING OR MILLING PURPOSES.

Castings of all kinds,

Furnished. Our new and complete arrangements will enable us to do this kind of work in a superior manner and on the shortest notice.

Steam Engines of Scott's Patent,

Can be furnished of any size, and of high or low pressure. These Engines combine so many points of decided improvement in their simplicity of construction, and in the economy of fuel for running them, as to make them superior to all others. One can be seen in operation at the works, where all information respecting them can be obtained.

16v8 THOMAS SCOTT & CO.,

Farrand's New

AMALGAMATOR & SEPARATOR!

THIS UNRIVALLED MACHINE IS NOW IN OPERATION AT THE

Eureka Metallurgical Works,

Commercial Street, between Front and Davis,

WHERE ALL KINDS OF ORES ARE REDUCED AND SAMPLED.

Particular attention given to Sampling Copper Ores.

This Amalgamator is capable of doing double the amount of work of the ordinary pans, at a saving of one half of the power, and at a much less cost in the original purchase.

Another very important advantage connected with this machine is the fact that it may be cleaned in fifteen minutes, without removing the plates or any other portion of the machine.

Manufactured at the Miners' Foundry, San Francisco. All communications should be addressed to R. L. OGDEN, Agent.

Cor. Montgomery and California streets, San Francisco.

Advantages of Farrand's Amalgamator.

In offering this Amalgamator to the public, the inventor does not claim any new or scientific method of extracting the precious metals from the ores; he merely claims a new and simple combination of mechanical principles, whereby a great saving of power (full one-half in amount) is effected. The capacity of the machine varies with its size, the smallest, or prospecting size, will reduce 300lbs. in three hours, and can be easily worked by the power of one man. The largest size will work 1,500lbs. every three hours, or six tons in 24 hours, with an application of a trifle more than one-horse power. This saving of power, as all mill-men are aware, is a very important consideration, particularly in localities where fuel is scarce. The power so saved in running the Amalgamators may be advantageously employed to an increase of stamps, and thus proportionally increasing the work of the mill. This machine consists of a semi-cylindrical, trough-shaped vessel, the interior of which is furnished with moveable concave dies, to be replaced when worn out, as in ordinary pans. The mullers are convex, and attached to a substantial rock shaft, by which they are moved back and forward by crank or eccentric motion. The mullers are held to their places by springs of moderate strength, the pressure of which may be easily regulated. The oscillating motion of the mullers serves to keep the pulp in a constant state of agitation, thoroughly mixing it and passing it under the mullers without resort to any of the various expedients employed in Pans where a circular motion is maintained. In working this Amalgamator no quicksilver is placed in the pulp until the trituration is completed. That done, the mullers are raised, so as to completely break contact with the dies, the quicksilver sprinkled into the mass and the machine set in motion again, the mullers simply acting as stirrers, which they do most effectual. The peculiar construction of this machine admits of its being worked with a much smaller charge of quicksilver, to any given amount of pulp than Pans. The spiral springs greatly assist in the work of reduction, by allowing the free admission of the pulp between the mullers and dies, so that the pulp is made to actually work upon itself—as the dust of the diamond is made to reduce the gem itself. The advantage derived of thus avoiding all trituration in the presence of quicksilver, must be apparent to every one at all acquainted with gold or silver amalgamating. Trials made with this machine in the presence of experts, during the last four months, have been pronounced highly satisfactory. It is peculiarly well adapted to employment by small mining operators in distant localities, as it can readily be taken to pieces and packed upon mules. It is intended to construct a large size machine, without dies or mullers, but simply with arms, to act as stirrers; said machine to be used in connection with several of the Amalgamators as a "Separator," as it is found that the peculiar motion given to these arms, in connection with the concave shape of the body of the machine, renders it most effectual for such a purpose. WM. D. FARRAND.

17-1m San Francisco, March 28th, 1864.

Rubicon G. and S. M. Companies, Nos. 1, 2, 3 and 4,

Keyes District, Nevada Territory.

At a meeting of the Board of Trustees of the above named Companies, on motion the Secretary was duly instructed, until otherwise ordered, to publish all notices of Annual Meetings, Assessments, and Sales, in the MINING AND SCIENTIFIC PRESS, and the stockholders are hereby notified that the said advertisements will hereafter appear in that paper. J. B. JOHNSON, President.

J. P. VAN HAGEN, Secretary.

San Francisco, April 18th, 1864. 17-4t

THOS. DAVENPORT. W. B. SMITH.

DAVENPORT & SMITH,

Mining and General Accountants,

SCRIVENERS, CONVEYANCERS, ETC.

Office, No. 14 Government Block, N. W. corner of Sansome and Washington streets, San Francisco.

REFER BY PERMISSION TO

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Sather & Co., Bankers.	Ross, Dempster & Co., Merchants.
John Parrott, Esq., Banker.	Dibblee, Hyde & Co., Merchants.
James J. Robbins, Esq., Broker.	Dickson, DeWolf & Co., Merchants.

To Prospectors and Owners of Mines!

The Pacific Metallurgical Works

Of this City, have been in operation over four years—have operated on nearly all kinds of rock—having never yet found the kind they could not reduce. We now solicit from Mill owners, samples of Ore Sulphurets which they find rebellious or hard to work, and we will either purchase the Ores or shew them how to work them, by their paying the freight to this City.

Advances made

On all kinds of Mineral Rock or Sulphurets!

COPPER ORES, BOUGHT OR ADVANCED UPON FOR SHIPMENT.

We still manufacture the FIRE-PROOF MINERAL PAINT of which there was so much sold last year.

J. C. BRADSHAW, JR. Sec'y.

17-1m Office, 511 Sacramento St., San Francisco.

W. P. DENCKLA. A. L. CHAMBERLIN.

DENCKLA & CHAMBERLIN,

Stock and Exchange Brokers,

S. W. corner of Clay and Montgomery streets,

SAN FRANCISCO.

☞ Deeds, etc., for record in Humboldt County, Nevada Territory, received and forwarded. 1-tf

MUTUAL

Life Insurance Company,

—OF NEW YORK—

Capital, : : : : : : : : : $9,750,000.

H. S. HOMANS, Agent for California.

H. S. HOMANS,

NOTARY PUBLIC,

And Commissioner of Deeds for Nevada Territory,

MINING SECRETARY, CONVEYANCER, ETC.,

Northeast corner of Montgomery and Merchant Streets.

PIONEER FOUNDRY and MACHINE SHOP,

Lower Gold Hill,

Have Superior Facilities for Making

MINING & MILLING MACHINERY,

A COMPLETE SET OF MACHINE TOOLS WITH

PLANER,

ENABLES ME TO DO ALL KINDS OF

MACHINE WORK AT SHORT NOTICE.

RETORTS AND INGOT MOULDS,

STAMP SHOES AND DIES,

WHEELER, VARNEY AND HEPBURN

PAN SHOES CONSTANTLY ON HAND.

Plans, Specifications, and Drawings of all kinds of Mill and Mining Machinery made at short notice, by

13 OLIVER HYDE, JR.

E. D. Farrington,

ASSAYER.

No. 430 Montgomery street, San Francisco. N. B. Assays guaranteed. 8v8-1m

Riehn, Hemme & Co.,

ASSAYERS.

☞ Assays made of Ores, Minerals and Metals. ☜

CHAS. F. RIEHN, late U. S. Branch Mint, gives lessons in Assaying, also in Mineralogy and Chemistry, as far as required to become a practical Assayer.

REFERRED with permission to Messrs. F. Parrot & Co., R. B. Swain, Esq., Messrs. Alsop & Co., Messrs. Donohoe, Ralston & Co. 1

G. E. MOORE,

Assayer and Analytical Chemist,

Having established a Chemical Laboratory, furnished with every requisite for delicate Analytical work, is prepared to execute the Assay and Analysis of Ores, Mineral Waters, Guanos, etc., with accuracy and dispatch. No. 334 Montgomery Street.

REFERENCES—Prof. J. D. Whitney, State Geologist, San Francisco; Alsop & Co., San Francisco; Sather & Church, San Francisco; John Parrott, San Francisco; D. O. Mills, Sacramento. 1tf

Assays & Metallurgy!

Promptness and Accuracy Secured

BY THE USE OF THE MOST IMPROVED METHODS OF ANALYSIS!

Advantageous Terms for Prospector's Clubs and Mining Companies.

J. H. CHURCHILL, M. A.,

[FROM EUROPE.]

24 Government Block, corner of Sansome and Washington Streets, San Francisco.

☞ "HINTS FOR PROSPECTORS" free by post. 1tf

NORTH BEACH

Quartz Mill and Reduction Works

ARE PREPARED TO WORK GOLD AND SILVER ORES, IN large or small quantities.

Working assays made of small lots, and all kinds of ores crushed at short notice.

Our new and complete Machinery, will enable us to give results fully up to the merits of rock.

WHEELER & THAYER, Proprietors.

C. C. JONES, Amalgamator.

San Francisco, Oct. 13, 1863. j2lf

HOWLAND, WOODARD & WILSON,

Copper Crushing and Grinding.

Attend to all kinds of Grinding & Crushing,

—SUCH AS—

COPPER ORES, MARBLE DUST, FIRE-BRICK DUST, DRUGS,

And Feed of all Kinds,

All of which will be Ground at the Shortest Notice.

—ALSO—

California Mineral Paint and Mineral Polishing Powder.

Works—No. 537 Market Street.

San Francisco, January 1st, 1864. 1-tf

JOHN TAYLOR,

—IMPORTER AND DEALER IN—

Druggists' and Chemists' Glassware,

And a Full Assortment of Assayers' Articles.

—INCLUDING—

Bullion and Assay Ballances, Furnaces, Muffles, Crucibles, Cupels, Acids, Etc., Etc.

Also—A Full Assortment of Reagents.

JOHN TAYLOR,

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DEETKEN & CO'S.,

METALLURGICAL WORKS,

FOR THE REDUCTION OF

SILVER AND GOLD ORES, TAILINGS, SULPHURETS, ARENIURETS, ETC., ETC. CUPELLATIONS AND REFINING OF SILVER AND GOLD,

Practical Assays for Silver and Gold, in small and large quantities, by Smelting, Chlorination and Pan Manipulation.

WORKS—On the San Bruno Road.

OFFICE—No. 315 Montgomery St., San Francisco. 16v8-tf

Pacific

METALLURGICAL WORKS.

North Beach, San Francisco.

THE COMPANY HAVING BEEN TO A LARGE EXPENSE IN enlarging their Works, are now prepared to contract to work any quantity of Gold and Silver Rock, nearer the true assay than any other Company in this Country, or Europe.

G. T. FOUQUE, Superintendent.

S. C. BRADSHAW, JR., Secretary.

Office, 511 Sacramento street, San Francisco. 3-tf

SILVER MOUNTAIN.—Mr. Slavan arrived in Stockton yesterday from Silver Mountain. He reports four feet of snow on the summit, and a perfectly clear road as far eastward as fourteen miles from the Big trees. Times are looking up at Silver Mountain. Two more quartz mills are in course of erection for custom work. The rock in the Lady Franklin and Lady Washington mines has been tested by tons by the working process, and pays in the first $240, in the second $100 per ton. The Lady Washington rock is in high favor with Virginia City miners. The average width of these veins at a depth of forty feet is 10 feet, and as they descend the rock grows richer. Mr. Slavan is building a sawmill on the Mokelumne, some eight miles west of Silver Mountain, in the sugar pine region. It will supply the new towns in the mines with the best quality of lumber. The timber on the eastern side of the mountains is all pitch pine, though it is in endless quantity. The Big Tree road will require the labor of 150 men for six or seven weeks to finish it as far as Silver Mountain. As far as now completed, Mr. Slavan pronounces this one of the very best wagon roads in the State.—[*Stockton Independent.*

THE ALLEGED PETROLEUM DISCOVERY IN MICHIGAN. The petroleum oil discovery at Albiou, is pronounced a humbug by the *Jackson Eagle.* It says: "A gentleman of reliability and standing informs us that a friend of his who has had much experience among the oil districts of Pennsylvania, and is, moreover, a man of thorough scientific attainments, has just completed a personal investigation of the Albion oil wells, and unhesitatingly pronounces them to be a shallow humbug, gotten up probably for speculating purposes. He states that the oil which is taken from the wells or springs is not a refined article!

A RICH DISCOVERY.—The Nevada Gazette learns that a few days since a valuable quicksilver mine was discovered at or near French Corral, in Nevada County. It is said that a man while digging in a garden accidentally made the discovery. The vein is said to be very rich, yielding more than 95 per cent of the pure metal. The Gazette understands that the excitement incident to this discovery was immense, and that the whole town was "taken up in a few minutes after the discovery was made known.

A three-mile race on snow shoes, took place at Montreal on the 13th of February. Mr. Malthy, who won the prize, made the three miles in twenty four minutes.

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. THE MINING AND SCIENTIFIC PRESS PATENT AGENCY has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

IMPORTANT!

The Best is Always the Cheapest!

THE PHŒNIX

INSURANCE COMPANY,

OF HARTFORD, CONN.,

And the $75,000 Deposit Act.

THE BILL REQUIRING ALL FOREIGN INSURANCE COMPANIES to make a special Deposit of $75,000 in Stocks of the United States, of this State, or stocks or bonds of the city, or city and county of San Francisco, with their banker or bankers in this city, on the FIRST DAY OF MAY, 1864, having become a law, it may be of interest to the insuring public to know that the PHŒNIX INSURANCE COMPANY, OF HARTFORD, IS READY TO COMPLY WITH ITS REQUIREMENTS AT ONCE. The Company has over $50,000 in city and county of San Francisco bonds, already on deposit with Messrs. Banks & Co. R. H. MAGILL, General Agent.

CITY OFFICE—In the "James King of Wm." building, southwest corner of Montgomery and Commercial streets, San Francisco.
I. FRANK, City Solicitor. (14v8-tf) I. B. DELL, City Agent.

PHŒNIX WORKS.

Nos. 6 & 8 Battery street, near Bush, San Francisco.

JOHNATHAN KITTREDGE, MANUFACTURER

—OF—

FIRE-PROOF DOORS, SHUTTERS, GRATINGS AND BANK VAULTS.—ALSO, BLACKSMITH'S WORK. 14-m

BLASTING POWDER!

Prime Blasting Powder, on Consignment

And for sale in lots to suit purchasers, by

J. S. CURTIS,
6v8-tf No. 405 Front street, San Francisco.

Miscellaneous Advertisements.

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Fulton Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First Street, between Market and Mission stree
3-qy SAN FRANCISCO.

J. H. GRUSH, J. A. PEER, W. BUSHMAN

GRUSH & CO.,

Pattern and Model Makers.

Drawings Made for Engines, Mills, Water Wheels, Mining Machinery, Etc.

—ALSO—

WOOD WORK FOR ALL KINDS OF MACHINERY.

☞ SCROLL SAWING DONE TO ORDER.
Fremont St., between Market and Mission, San Francisco. 3-3m

GEORGE T. PRACY,

MACHINIST AND BLACKSMITH.

Steam Engine, Flour and Saw Mill,

And Quartz Machinery, Printing Presses,

—AND—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED
Nos. 109 and 111 Fremont street, near corner of Mission,
OPPOSITE MECHANICS' MILL,
3-qy SAN FRANCISCO.

JOHN F. GALLAGHER..... .....JOSEPH H. WEED.

GALLAGHER & WEED,

BRASS AND BELL FOUNDRY

And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING, DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, MADE to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks, also brass Padlocks and Shop Locks of various patterns, on hand and made to order.
☞ Particular attention given to casting Rudder Braces and Ship Work in general.
☞ All Jobs promptly attended to.—Prices moderate. ☜
No. 125 First Street, opposite Minna, next door to Pacific Foundry.
[Removed from Oregon street, between Front and Davis.]
j2tf

LEWIS COFFEY. LEWIS COFFEY & RISDON, J. S. RISDON.

Steam Boiler & Sheet Iron Works.

THE ONLY EXCLUSIVELY BOILER MAKING ESTABLISHment on the Pacific Coast, owned and conducted by Practical Boiler Makers. All orders for New Work, the repairing of Old Work, executed as ordered, and warranted as to quality.
Old Stand, corner Bush and Market Streets. Opposite Oriental Hotel, San Francisco, Cal.

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,

BOILER MAKERS AND SHEET IRON WORKERS,

N. B. All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.
Mission, between Beal and Fremont Sts., San Francisco.
7y29-tf

LEANDER RANSOM,

Civil Engineer and Surveyor,

HAVING BEEN CONNECTED WITH THE PUBLIC WORKS OF the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. Also

State Locating Agent,

AND AS SUCH HAVING THE SALE OF

600,000 Acres of State School Lands.

At the low price of $1,25 per Acre.

TERMS—Twenty per cent in cash and the balance on a credit of several years.
oc7-tf Office, 328 Montgomery streets.

W. W. HANSCOM,

Steam and Mechanical Engineer. Designs furnished, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc., etc. Agent for McKenzie's Patent Cupola and Blower.

At the Golden State Iron Works,

First Street, San Francisco.
tf.

Boston Mastic Roofing.

WE ARE PREPARED TO FILL ALL ORDERS FOR ROOFING throughout the State, Mexico or Nevada Territory. The attention of miners and mill owners are especially called to this notice, it being the cheapest and most economical roofing in use.
Office 135 Montgomery Street, near Bush, San Francisco.
10v8-2m N. P. PERIN & CO.

WANTED,

Gold Quartz suitable for Cutting Jewelry.

By FRONTIER & DEVIERCY.

437 Pine Street, San Francisco.
au31tf.

FREDERICK MANSELL.

Mechanical & Architectural Draughtsman,

No. 422 California street, corner of Leidsdorff.

Drawings of MODELS made for parties applying for patents at Washington or London. mar23-tf.

MINERS' FOUNDRY

—AND—

MACHINE WORKS,

First street, between Howard and Folsom streets,

SAN FRANCISCO.

EVERY DESCRIPTION OF IRON AND BRASS MACHINERY, in the Best and Most Economical, manufactured in the State of California, will be furnished with dispatch at the Miners' Foundry and Machine Works, as:

Steam Engines and Boilers, Flour, Saw and Quartz mill machinery, Mining Pumps, Amalgamators, Retorts, Etc., Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections, designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.
*** Parties desiring to test their ores practically, in small quantities will be afforded ample facilities, free of cost.

All parties desiring accurate and highly finished drawings and Superior Machinery, at most reasonable rates are cordially invited to call before contracting elsewhere.
tf. HOWLAND, ANGEL & KINO.

Vulcan Iron Works Company.

P. Torquet.....Manager.

Steam Engine Builders and Boiler Makers, Iron Founders and General Engineers,

PUMPING, HOISTING, MINING AND QUARTZ-CRUSHING MAchinery. Shoes and Dies of the hardest iron. Russia Iron Punched Screens, Steamboat Machinery, Saw, Flour and Sugar Mills. High and Low Pressure Boilers of all styles. JONVAL and other Turbine Water Wheels with latest improvements.
tf No. 187 & 139 First Street San Francisco.

A. S. HALLIDIE & CO.,

WIRE ROPE MANUFACTURERS.

Established 1857.

Office, No. 412 Clay street—Works, North Beach,

SAN FRANCISCO.

After seven years' use throughout the State of California and the Pacific Coast generally, we can confidently recommend Wire Rope for

HOISTING FROM DEEP MINES,
GUY ROPES FOR DERRICKS, &c.,
STANDING RIGGING FOR SHIPS,
FERRY ROPES FOR FERRIES,
SASH CORD FOR WINDOW SASHES.
ETC., ETC., ETC., ETC., ETC., ETC

It being Cheaper, Stronger, Lighter and More Durable than any other kind of Rope, and not stretching or shrinking by atmospheric changes.

MINING COMPANIES, by using it for Hoisting Purposes, save 66 per cent. on their outlay for other ropes.

Wire Fencing Strand,

For fencing large parcels of land—permanently, economically and expeditiously. Manufactured in any length desired.

Pamphlets containing weight, strength and price, forwarded free application to the Manufacturers.

WIRE SUSPENSION BRIDGES AND AQUEDUCTS

We are prepared to erect, of any span and capacity, and take pleasure in referring those interested to the many structures of this kind built by us in California, Oregon and British Columbia, of span from 200 to 400 feet. 3-3m

IMPROVED WATER-WHEEL,

—PATENTED BY—

John Tyler, West Lebanon, N. H.

GIVING THE MAXIMUM POWER WITH THE MINIMUN COST—HAVING THE FOLLOWING AS SOME OF ITS ADVANTAGES OVER OTHERS—GIVING THE BEST PER CENTAGE OF WATER USED, DURABILITY.

It runs Equally as well IN Back Water as OUT.

IT IS ADAPTED TO HIGH HEADS OR LOW—IT IS NOT LIABLE to get out of repair—It can be put to running by any Machinist in a very short time—It is the steadiest running and easiest regulated wheel in use—There are now some 500 of them in use in the United States and Canadas, running under all heads, from 4 to 80 feet, and giving universal satisfaction. Address

SMITH & HANSCOM,
15v8-3m Golden State Iron Works, San Francisco.

WHEELER'S

Amalgamating and Separating Pans

IT IS ACKNOWLEDGED BY ALL WHO HAVE EXAMINED THE principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.

The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metal arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the triturating, this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.

Where these Pans have been introduced and operated by the side of others on sands from the same yat, the Wheeler Pans have uniformly gained a large percentage of metals, over its competitors, as well as a still larger percentage in the amount of work performed.
*** These Pans may be seen in daily operation at the Miners, Foundry, on First street, San Francisco, where all interested are invited to call and examine for themselves.
no16-tf ZENAS WHEELER.

To Quartz Miners.

ALL PERSONS INTERESTED IN MINING MACHINERY ARE invited to call at Donahue's Foundry and examine my improved Amalgamator. It is unquestionably superior to anything now known for amalgamating Silver and Gold. It works 1000 pounds at a time, and will amalgamate over three tons a day. By the motion of the revolving muller, the pulp is drawn through its centre and passes under it, between the grinding surfaces, to the circumference; from whence it passes again over the muller to the centre, through the holes and between the grinding surface to the circumference as before. Thus a constant circulation of the pulp is kept up, bringing the particles of ore again and again under the muller, and reducing the whole mass to an impalpable powder.

No quicksilver lies between the surfaces to be ground, but at the circumference and centre of the pan where the metal must pass through it as the pulp circulates.

A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S. Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.
sep21

BUSINESS DIRECTORY OF SAN FRANCISCO.—Messrs. Stillwell & Co. are said to be meeting with excellent success with their important undertaking, and the public will soon be furnished with a conveniently arranged book, containing the advertising cards of our leading firms, with a historical sketch of each upon the opposite pages.

Worth Considering.—Advertising has proved the medium of success to many of the most prominent business men of the world. Merchants, Inventors, Builders, Patentees, Manufacturers, Foundrymen, Machinists, and, in fact, all who wish to call the particular attention of the Mining, Professional, Mechanical and Industrial members of the community to their business, should not fail to advertise in the MINING AND SCIENTIFIC PRESS. The circulation of the paper is extensive, and has a wide range, reaching the most intelligent readers in every mining settlement of importance on the coast. A large number of copies are also sent East. Our terms are reasonable. "Live and help live" we believe to be a sensible motto.

How to make your Remittances.—In most of the mining towns, brokers will furnish checks on San Francisco at par, (or at a very slight advance) to those who wish to pay us for subscriptions, advertising, mining blanks, etc. When it is more convenient, money may be remitted by mail at our risk if the parties sending will register their letters. Money sent by mail is seldom lost if properly enclosed. An excellent method is that of opening the layers of a card, placing the coins between the layers and sealing the edges together.

To Druggists and all Prescribing for Neuralgic and Nervous Cases.—Your attention is called particularly to the efficacy of WATTS' NERVOUS ANTIDOTE for the above. Feelings of humanity, independent of pecuniary considerations, would prompt you to recommend it in all cases of Neuralgic Pains, Face Ache, from defective teeth, and the General Wasting Away and Debility of the Nervous System, if you could have the assurance that this was what it is purported to be—THE GREAT RELIABLE TRANQUILIZER AND RESTORER OF THE SYSTEM. It has been repeatedly prescribed in cases of excessive drinking, on the verge of Delirium Tremens, and even while laboring under its distressing influence, with astonishing results. It contains no preparation of Opium or Valerian, and is never accompanied with the unpleasant sensation always experienced after taking successive doses of them. It is also the best Soothing Syrup in use. Patients have taken Watts' Nervous Antidote many months in succession, and experienced no unpleasant effect whatever—while the same continued use of many other popular remedies has completely shattered the system.

For sale, Wholesale and Retail, by SAMUEL ADAMS, U. S. Drug Store, corner of Pine and Kearny Streets, San Francisco. 6v8-3m

Brown's Bronchial Troches.

"I have never changed my mind respecting them from the first, excepting to think yet better of that which I began to think well of." REV. HENRY WARD BEECHER.

"The Troches are a staff of life to me." PROF. EDWARD NORTH, Pres. Hamilton College, Clinton, N. Y.

"For Throat Troubles they are specific." N. P. WILLIS.

"Too Well known to need commendation." HON. CHAS. A. PHELPS, Pres. Mass. Senate.

"Contain no Opium nor anything injurious." DR. A. A. HAYES, Chemist, Boston.

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Agents for California, REDINGTON & Co., San Francisco. 14-1m

PRATER'S
PATENT CONCENTRATOR.

THE PROPRIETORS OF THIS NEW CONCENTRATOR, HAVING completed arrangements for its manufacture at the Fulton Foundry, in this city, now offers it to the public, with the fullest confidence that for the purpose for which it is designed

It Has No Equal in Use.

The principle of this machine, which is designed for a Concentrator exclusively, is entirely new. It is designed for separating finely divided quicksilver, amalgam and gold from the sands, and for concentrating and saving the sulphurets, and is to be placed behind all or any other machine in use. It is now in operation at

WHALER & THAYER'S REDUCTION WORKS,
NORTH BEACH, SAN FRANCISCO,

To whom the Proprietors are permitted to refer, and where all interested in mining are respectfully invited to call and examine the best Concentrator in use.

This machine is now running on waste sands, from which it is taking out an average of 3½ pounds of quicksilver for each ton of sand. Orders or letters of enquiry may be addressed to

HUNGERFORD & PRATER, Proprietors.
San Francisco, April 1st, 1864. 14v8-tf

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First street, between Mission and Howard streets,

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GODDARD & COMPANY,

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STEAM ENGINES & BOILERS,

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AMALGAMATING PANS AND BARRELS, MINING PUMPS AND HOISTING GEAR, WATER WHEELS,

And Machinery of Every Description.

Also furnish all kinds of Iron and Brass Casting. Only Manufacturers of the celebrated Bryan Battery. 14-tf

Mining Laws and Forms

JUST PUBLISHED, BY H. H. BANCROFT & CO., BEING A compilation of the Statutes of this State relating to Mining Corporations, Assessments, etc., with a digest of decisions of the Supreme Court and Forms of the Incorporation of Companies. Compiled by H. B. Congdon. 12mo., flexible cloth. $1,50. For sale at all the Bookstores. sep14-tf

A New and Valuable Book.

PROCESS OF SILVER AND GOLD EXTRACTION, BY GUIDO Kustel, Mining Engineer and Metallurgist, former manager of the Ophir Works, &c.; 350 pages octavo illustrated.

This admirable work has met with the highest commendations from the Press and Scientific men, as a clear and able exposition of the science as practised in California and Nevada Territory. It is written for the people in good plain English and finely illustrated.

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MAGNIFYING GLASSES FOR EXAMINING QUARTZ.
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CERTIFICATES OF STOCK,
Equal to Lithograph, for $25.

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MEXICAN MINING STOCKS,
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OFFICE OF THE PENA AND LA MARRONENA SILVER MINing Companies, San Antonio District, Lower California.

All persons are invited to call and examine Ores from the above mines.
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(SUCCESSOR TO O. GORI)
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On hand and Manufactured to order.
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AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION OF THE Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

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Manufactured and exhibited at the Vulcan Iron Works, Nos. 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

[Illustrated in the Mining and Scientific Press, April 9th, 1864.]
nov8 3m* HEPBURN & PETERSON.

Pacific Mail Steamship Company.

THE FOLLOWING STEAMSHIPS WILL BE DESPATCHED FROM SAN FRANCISCO IN THE MONTH OF APRIL, 1864.

April, 13—COLDEN CITY.....R. H. Pearson, Commander.
April, 23—ST. LOUIS.....Wm. H. Hudson, Commander.

From Folsom street Wharf, at nine o'clock A. M., punctually,

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Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company.

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REYNOLD'S
Patent Cut-Off and Governor,
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127 of these Invaluable Machines
ARE NOW IN USE

In California and Nevada Territory, giving a perfectly regular motion and

Saving 20 to 75 per cent of the Fuel.

Steen's Improved Governor

IS THE CHEAPEST, SIMPLEST AND QUICKEST TO ACT AND least liable to get out of order of any Governor in use. It can be seen in operation at the Golden State Iron Works, at the Stone Brusher, foot of Montgomery Street and at the Sugar Refinery, 8th Street, San Francisco.

Steam Engines, Boilers, Pipes,

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Anti-Incrustation Powder,

A sure remedy for Scale in Steam Boilers, without injury to the Iron. In use for the past EIGHT years.

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10 000 HAND SEWED GOLD AND SILVER ORE BAGS, 100 lbs each. 15,000 Chicken Gunny Pocket Bags, suitable for Copper Ore, 125 lbs each. For sale in lots, by
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CAPITAL STOCK.....$1,000,000

10,000 Shares.....$100 per Share.

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Full Paid and Unassessable Stock,

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☞ Terms moderate, and all results guaranteed. 11v8-m

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OFFICE JOBBING, of all kinds, promptly attended to.
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TRUNK AND VALISE MANUFACTURER, 397 SANSOME ST., under Tehama House. Trunks and Valises, Wholesale and Retail, Fine Sole Leather Trunks, Valises, and a fine assortment of LADIES' TRUNKS constantly on hand. Trunks covered and repaired.
au10

New this Week.

Union Tunneling Company, Santa Clara District, Humboldt County, Nevada Territory.

Notice is hereby given that at meetings of the Board of Trustees of the above Company, held on the sixth day of February and on the Eleventh day of April, A. D. 1864, assessments Nos. 2 & 3 of Fifty (50) cents each, were duly levied upon each and every share of the Capital Stock, payable immediately to the Secretary at his Office, in U. S. Gold & Silver coin.

The above assessments may be paid to H. H. WOOD, agent for the Company in California, at 627 Clay St., San Francisco, until the Twelfth day of May, A. D. 1864. J. J. KELLOGG. Sec'y.

Santa Clara, Humboldt County, N. T., April 12th, 1864. 16-3t

Lord Byron Gold and Silver Mining Company, Devil's Gate District, N. T.

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 16th day of April, 1864, an assessment of one dollar per share was levied upon the Capital Stock of said Company, payable on the 23d day of April, 1864, in U. S. Gold coin, to the Secretary or to R. McMURRAY, Esq., Supt. at Silver City, Nevada Territory.

Any Stock upon which said assessment shall remain unpaid on Saturday, the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 4th day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

H. B. CONGDON, Sec'y.

Office, 620 Washington St., Room No. 3. 17-4t

Silver Star Gold and Silver Mining Company, Virginia District, Storey county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 21st day of April, 1864, an Assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable on the 22d day of April, 1864, in United States gold and silver coin, to the Secretary at the office, or to Daniel Nowlan, Virginia City.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday the 8th day of June, 1864, to pay the delinquent Assessment, together with the costs of Advertising and exponses of the sale. By order of the Board of Trustees.

WM. P. MOODY, Secretary.

Office, No. 706 Montgomery street, San Francisco,

Rubicon Gold & Silver Mining Company No. 1.
Rubicon Gold & Silver Mining Company No. 2.
Rubicon Gold & Silver Mining Company No. 3.
Rubicon Gold & Silver Mining Company No. 4.—Keys District, Mono county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Companies, held on the 18th day of April, 1864, an Assessment of ten cents per share was levied upon the capital stock of said Companies, payable immediately, in U. S. gold coin, to the Secretary, at the office of the Companies, No. 302 Montgomery street, San Francisco. Any stock upon which said Assessment shall remain unpaid on Saturday, the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on FRIDAY, the 10th day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees,

J. P. VAN HAGAN, Secretary.

Office, Rooms 7 and 8, third floor, No. 302 Montgomery street, San Francisco. 17-4t

Tellurium Gold and Silver Mining Company, Pine Grove, Amador county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 21st day of April, 1864, an Assessment of one dollar per share was levied upon the Capital Stock of said Company, payable on the 23d day of May, 1864, in United States gold and silver coin, to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 10th day of June, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale. By order of the Board of Trustees.

WM. H. MARTIN, Secretary.

Office, 627 Clay street, San Francisco.

Queen of Antilles Consolidated Gold and Silver Mining and Tunnel Company, Lander county N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of March, 1864, an Assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable on the 9th day of April, 1864, in United States gold coin, to the Secretary at his office 528 Clay street, San Francisco, or to the Superintendent, H. Henderson, Austin, N. T. By order of the Board of Trustees.

G. B. LARRABEE, Secretary.

Office, 528 Clay street, San Francisco.

Pearron Gold and Silver Mining Company, Lander County, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of March, 1864, an Assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable on the 9th of April, 1864, in United States gold coin to the Secretary at his office, 528 Clay street, San Francisco, or to the Superintendent, G. W. Leet, at Austin, Lander county, N. T. By order of the Board of Trustees.

G. B. LARRABEE, Secretary.

Office, 528 Clay street, San Francisco.

NOTICE.

Is hereby given that from and after July 1st, 1864, the principal Office of the Savage Copper Mining Company Situated in Zince House District Nevada County, California—will be in Lincoln, Placer County, California. A. BATEMAN, Sec'y,

17-1m Lincoln, April 13, 1864.

Sonoma Ledge Silver Mining Company, Reese River District, Nevada Territory.

Notice is hereby given, that on MONDAY, May 23d, 1864, at noon, there will be sold, at Auction, at the salesroom of Cobb & Sinton, No. 406 Montgomery street, San Francisco, a sufficient number of shares in the capital stock of the Sonoma Ledge Mining Company, standing in the names of the following persons, to pay the Assessment (No. 2) of fifty cents per share, levied September 3, 1863; the Assessment (No. 3) of one dollar per share, levied January 5, 1864; and the Assessment (No. 4) of one dollar per share, levied March 12, 1864, together with the expenses of advertising and sale, unless the same shall have been previously paid—viz:

Names.	Certifs.	Shares.	Amt.
Barnes, R.	1	25	$25
Baldwin, J. G., Jr.	74	8	8
Basler, George A.	147	5	5
Bennet, W. P.	151	4	4
Bennet, W. P.	152	3	3
Bennet, W. P.	153	3	3
Bennett, A. A.	126	8	8
Bennett, A. A.	132	10	10
Bennett, A. A.	133	10	10
Barnham, R. M.	9	8	8
Burnham, R. M.	104	20	20
Clark, John W.	112	7	14
Dwarakowsky, Count.	67	10	10
Dwarakowsky, Count.	68	10	10
Dwarakowsky, Count.	69	10	10
Dumas, Charles.	75	25	25
Dumas, Charles.	99	25	25
Dreyfuss, Henry	16	13	13
Friedman, S.	83	0	9
Garber, John	143	15	15
Helmken, I.	73	3	6
Howell, John	134	50	50
James, John D.	22	8	8
James, John D.	49	20	20
Kinsey, Mrs. Belle	130	8	8
Mann, David	117	3	3
Miller, J. W.	81	5	10
Neyman, H. J.	31	10	10
Neyman, H. J.	32	10	10
Neyman, H. J.	33	5	5
Neyman, H. J.	71	10	10
Neyman, H. J.	72	6	0
Pringle, George C.	34	10	25
Sichel, Julius	65	5	5
Sichel, Faulio	66	5	5
Smith, David	88	10	10
Smith, R. T.	94	10	10
Smith, R. T.	95	10	10
Smith, R. T.	90	10	10
Smith, R. T.	102	5	5
Smith, N. T.	154	5	5
Smith, N. T.	155	5	5
Smith, N. T.	156	5	5
Smith, N. T.	157	10	10
Toler, William P.	148	5	5
Wolf, Louis	43	36	36
Wolf, Louis	91	10	10
Wolf, Louis	122	11	11

By order of the Board of Trustees.

DAVID WILDER, Secretary.

17-5t No. 240 Montgomery street, San Francisco.

Silver Star Gold and Silver Mining Company.—Office No. 706 Montgomery street, San Francisco.

Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Silver Star Gold and Silver Mining Company, there will be sold, at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on WEDNESDAY, May 25th, 1864, at 11 o'clock A. M. of that day, to the highest bidder, for cash, in U. S. gold coin, so many shares of the capital stock of said Company, standing in the names of the following shareholders, as will be necessary to pay the Assessments duly levied thereon, and now being due and unpaid, together with the expenses of advertising and sale—to wit:

Names.	No. of Certifs.	No. of Shares.	No. of Assts.	Amt.
Henry Gerke. —118 to 124, 126 to 135, 137 to 145, 245	610	3 & 4		$519 00
Sol A. Sharp	221	50	3 & 4	45 00
A. J. Banker	317	20	4	10 00
E. Chaquette	315	25	4	12 50

By order of the Board of Trustees.

17-4t WM. B. MOODY, Secretary.

Bajazette Gold and Silver Mining Company, Lander County, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of March, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on the 9th day of April, 1864, in United States gold coin, to the Secretary at his office, 528 Clay street, San Francisco, or to the Superintendent, G. W. Leed, at Austin, Lander county, N. T. By order of the Board of Trustees.

G. B. LARRABEE, Secretary.

Office, 528 Clay street San Francisco.

Great Western Gold & Silver Mining Company, Keyes District.—Notice is hereby given, that by a resolution adopted by the Board of Trustees of the Great Western Gold & Silver Mining Company, at a meeting held on the 17th day of November 1863, an assessment of sixty-five cents was levied upon every share of the Capital Stock of said Company to be paid immediately in U. S. Gold Coin, to the Secretary, at the Office of the Company, No. 27 Government House, corner Washington and Sansome Sts.

Also, an assessment of twenty-five cents per share, on each and every share, levied on March the 17th, 1864, to be paid immediately, in U. S. Gold Coin, to the Secretary at his Office.

C. A. CRANE, Sec'y.

San Francisco, March 19th, 1864. 13-5t

Savage Mining Company, Zinc House District, Nevada County, Cal.—San Francisco, March 26th, 1864.—A Stockholders meeting of the Savage Mining Company will be held at the Office of the Company, 645 Clay street, on Monday May 2nd, 1864, at 9 o'clock A. M. By order of the Board of Trustees.

14-4t M. G. ELMORE, Sec'y, *pro tem.*

Office of the Henry and Bernard Consolidated Gold, Silver and Copper Mining Company.

WANTED.—Proposals for runing a tunnel, from 130 to 150 feet, into a claim owned by the Henry & Bernard Consolidated Gold, Silver & Copper Mining Company, situated in Weaver district, Arizona Territory, about 10 miles from Olive City. For description of the ground and specifications, Apply to I. M. BLOOD, General Superintendent, at the Office of the Company, No. 334 Montgomery street, San Francisco, from 10 to 11 o'clock, A. M.

16v8-tf GEO. W. GILDERSLEEVE, Sec'y.

Keokuk Gold, Silver and Copper Mining Company, Office No. 322 Front Street, San Francisco, April 16, 1864.

Notice is hereby given, that in accordance with the laws of the State of California, and the by-laws of said company, and an order duly made by the Board of Trustees of the Keokuk Gold, Silver and Copper Mining Company, there will be sold at Public Auction, by Jerome Rice & Co., 327 Montgomery Street, San Francisco, on WEDNESDAY, May 25th, 1864, at 11 o'clock A. M., to the highest bidder for cash in United States gold coin, so many shares of the stock of said company, standing in the names of the following persons, or shareholders, as will be necessary for the payment of assessments duly levied thereon and still remaining due and unpaid, together with expenses of advertisement and all other expenses of sale, to wit:

Names.	No. Certif.	No. Shares.	Amt.
J. N. Peterson	383	20	$2 00
Paul Bunker	385	20	2 00
B. S. Hines	109	5	50
G. M. Smith	286, 287	50	5 00
F. P. Greeu	281, 282, 283	75	7 50
Wuthrich, John	111	10	1 00
Geo. Russell	134	30	3 00
W. A. White	138	10	1 00
S. D. Casey	391	100	10 00
H. Classen	178, 179	50	5 00
A. E. DuBois	182	5	50
A. Himmelman	186	30	3 00
H. H. Schafer	398	70	7 00
J. DeGroff	401	15	1 50
E. G. Matthews	208, 209	50	5 00
J. Leavett	217, 218	100	10 00
M. Butler (No. 2)	378	10	1 00
A. Dolot	457	20	2 00
E. B. Mastick	422	100	10 00
Malcolm Fisher	456	13	1 30
S. M. Tibbits		550	55 00
Mrs. A. B. Harriman	304	100	10 00
Ruth A. Taylor	311	10	1 00
Louisa Wise	193	10	1 00
E. C. Wetmore	190, 197	150	15 00
A. W. Stratton	59, 60	75	7 50
E. T. Carrique	65, 68	40	4 00
A. J. Bailey	69, 71, 72	150	15 00
A. M. Morgan	421	200	20 00
L. M. Morgan	420	200	20 00
F. L. Leech	306	50	5 00
J. H. Littlefield	407, 408, 4 9	100	10 00
J. A. Smith	351	5	50
J. Alexander	458	70	7 00
H. Rothschild	358	5	50
D. J. Alexander	part 168	19	1 90
R. Brackett	359, 360, 363	50	5 00
G. S. Harmon	364, 365	100	10 00
Geo. F. Sharp	425	200	20 00
B. M. Hartshorn	not issued	200	20 00
P. J. Baldwin	423	250	20 00
George Doan	part of 263 to 267	170	17 00
John Fricker	375	55	5 50
C. H. Rice	part of 98, 99, 100, 102, 104 & 5	07	0 70
G. W. Clark	381	50	5 00
C. Bruns	453	25	2 50
D. W. Patterson	254	50	5 00
Miss C. Allson	257	50	5 00
J. H. Widber	445	25	2 50
Jas. Foster	440	20	2 00
E. D. Hayes	295, 296	10	1 00

By order of the Board of Trustees.

A. B. WINEGAR, Secretary.

17-4t No. 322 Front street, San Francisco.

Office of the Cedar Gold and Silver Mining Company, Esmeralda District.—Notice is hereby given, that there is delinquent upon the following described stock, on account of assessments levied on the 28th of March, 1863, July 16th and July 17th, 1863, respectively, of fifty cents per share each, as follows:

Assessment No. 1, 50 cents per share, levied March 28th, 1863.

Names.	No. Certificates.	Shares.	Amt.
H. S. Sanders,	Stock not issued.	88	$44 00
J. R. McGinnis,	Stock not issued.	9	4 50
Amos Houlton,	27	10	5 00

Assessment No. 2, 50 cents per share, levied July 16th, 1863.

L. B. Greenman,	6, 7, 8 and 9	50	25 00
Warren Norton,	31	12	6 00
T. E Dorr,	43 and 44	20	10 00
James W. Tilton.	Not issued.	2½	1 25
J. R. McGinnis,	Not issued.	9	4 50
H. S. Sanders,	Not issued.	88	44 00

Assessment No. 3, 50 cents per share, levied July 17th, 1863.

L. B. Greenman,	6, 7, 8 and 9	50	25 00
Warren Norton,	31	12	6 00
T. E. Dorr,	43 and 44	20	10 00
James W. Tilton,	Not issued.	2½	1 25
J. R. McGinnis,	Not issued.	9	4 50
H. S. Sanders,	Not issued.	88	44 00

And in accordance with law, and an order of the Board of Trustees, made on the 11th inst., so many shares of each parcel of said stock as may be necessary, will be sold at the auction rooms of Jerome Rice & Co., 327 Montgomery street, on MONDAY, the 16th day of May next, at 12 o'clock M., to pay the said delinquent assessments thereon, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

T. L. BIBBINS, Secretary.

Office, 302 Montgomery street, San Francisco, Cal.

April 15th, 1864. 16-4t

Golden Rule Mining Co., of Tuolumne County, Cal. —Notice is hereby given, that there is delinquent upon the following described stock, on account of assessment levied on the 3d day of March last, and assessments levied previously thereto, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certs.	Shares.	Amt.
W. F. Herrick,	159	50	$25 00
W. F. Herrick,	160	50	25 00
W. F. Herrick,	161	50	25 00
W. F. Herrick,	188	25	12 50
W. F. Herrick.	189	25	12 50
W. F. Herrick,	229	22 2-9	11 13
L. D. Ingoldsby (2 assts),	144	50	50 00
L. D. Ingoldsby (2 assts),	145	50	50 00
L. D. Ingoldsby (2 assts),	264	11 1-9	11 12
Jas. Boland (2 assts),	86	25	25 00
Jas. Boland (2 assts),	235	2 7-9	2 75

And, in accordance with law, and an order of the Board of Trustees, made on the 12th inst., so many shares of each parcel of said stock as may be necessary, will be sold by Jerome Rice & Co., public auctioneers, at their salesroom, No. 327 Montgomery street, San Francisco, on WEDNESDAY, the 18th day of May next, at 11 o'clock A. M., to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

JOHN B. RUSSELL, Secretary.

16-4t Office, 430 Jackson street, San Francisco.

We have received No 1 of the enlarged MINING AND SCIENTIFIC PRESS published by Dewey & Co., San Francisco. It is greatly improved, and gives promise of an excellent, able and reliable journal.—*Marysville Daily Appeal.*

Sierra Consolidated Gold and Silver Mining Company, Sierra county, Cal.—Office 302 Montgomery street, San Francisco.—NOTICE.—There are delinquent, upon the following described stock, on account of assessment levied on the 29th day of February, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	Shares.	Am't.
Garrett Hopper,	448, 923, 924	35	$17 50
K C Eldridge,	535, 533, 534, 536, 537	700	350
Harry Eldridge,	595	700	350
J W Jones,	477	5	2 50
Julius Fuierbach,	479	10	5
P M Govern,	485, 486, 487, 721, 722, 733, 803, 889, 931, 957	930	465 00
Merrit Welton,	492	25	12 50
E Rondel,	493	5	2 50
J Marie Journe	488, 980	50	25
Daniel Frink,	494	20	10
E F Burdick,	497, 499, 610, 611, 984	37	18 50
Wm M Newhall,	510, 518	20	10 00
H Adolphus,	520	10	5
J Beeur Martin,	596	15	7 50
W J Tilley	603	25	12 50
Mrs J R Tobias	610	10	5
T L Bibbins,	458, 462, 464	80	40
S T Walsh,	221, 222, 223, 970	50	25
Jno Ryan	229	20	10
F T Eisen,	205	350	175
Wm Bohm	339, 340, 341	20	10
Bishop Sheldon,	726, 727, 728, 729	314	157
D A McDonald	83, 84, 85	96	48
John P Sheldon,	235	10	5
Jno Harding,	251, 694	40	20
F R Raby,	188, 189, 190, 191, 1054, 1055	300	150
J F Eddy,	part of 200	16	8 00
Henry Michaels,	206	5	2 50
Chas E Murray,	209	5	2 50
Mrs Annetta M Dean,	272	25	12 50
Benjamin Dean,	273, 868	75	37 50
Mary Eisler,	261, 344	20	10
A A Susenbeth,	262, 343	40	20
Marie Garategny,	342	20	10
Placide Sevolle,	345	5	2 50
Q A Chase,	809	100	50
Timothy Canty,	675	1	50
P C Fogarty,	816	10	5
Jas McElroy,	702, 893	30	15
James Neary,	385, 421 424, 402	41	20 50
Thos W Leggett,	883, 951, 953, 973	50	25
Mrs Mary Murry,	900, 938	38	19
Mrs Johannah Murphy	903	40	20
Geo W Osborne	905	10	5
James McCabe	912, 911	40	20
Mark W Higgins,	913, 914, 915, 916	260	130
Thos J Owens,	977	10	5
John Martin,	982	10	5
Wm Corcoran,	979, 1050	40	20
J L Jones,	989	5	2 50
Laura A Taylor,	992	140	70
H A Chase	1010	5	2 50
Donald McDonald,	998	10	5
Eliza A Delgado,	1003	5	2 50
James L Burus,	1043	5	2 50
A P Williams,	1041	10	5
Thomas Kelly,	1051	10	5
John Halpin,	1048, 1049	20	10
Mrs Doreas Taylor,	887, 1036 1064	228	114
John Cunningham	527	10	5 00
Michael O'Neil	230	20	10 00
Arthur K Hawkins	1, 2, 3, 4, 5, 6, 7,	700	350 00
James Hawkins	10, 12, 15, 763	179	89 50
Timothy Shields	158, 160, 161, 762, 761, 760, 165, 164, 162	213	106 50
Thos O'Neil	604	5	2 50
Edward Pearson,	balance due on 719, 817	140	55 00
Q S Hagberg	183, 185, 186, 1059, 1060	100	50 00
Ed Jellings	1040	15	7 50
J C Stokes	18	25	12 50
John Todd	856	50	25 00
Mary A Stokes	30	30	15 00
F R Lewis	66, 114, 115, 116, 978	135	67 50
W C Stokes	42, 43, 44, 45, 46, 48, 49, 51, 55, 58, 59, 983, 990	193	96 50
James G Shaw	90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 101, 106, 107, 108, 109, 110, 111, 112, 113, 609	225	112 50
George Fisen	264	175	87 50
Frederick P. Green	709, 710, 769	80	40 00
E A Pearson	718	5	2 50
Wm Pearson	613	5	2 50
Madame Lechard	759	5	2 50
James Linen	755, 756, 757, 758, 890	230	115 00
L McNally	764	30	15
E R Stewart	766	10	5
E T Peck	767, 778	30	15
J P Thomas	777	20	10
Victor Hoffman	779	20	10
Johanna Crowley	782	20	10
Frederick Goodell	819	20	10
Malachy Naghton	808, 809, 810	500	250
O Halloran	989	2	1
Moyuehan & Aitkin	793	25	12 50
Isaac Lowenstein	806	10	5
Frank McGlynn	851, 862	80	15
John Donelly	863	10	5
C Canniffe	857	5	2 50
E. B. M. Manus	866	5	2 50
C P Williams	867	50	25
John Dow	876	6	3
James M Shackey	891	20	10
Mrs Eliza Lake	894	5	2 50
Eleander Heath	901, 907, 908, 953, 909, 910, 963, 965	242	121
James Brerelon	929	10	5
Geo H Hopps	962	50	25
Philip Conway	967	15	7 50
Samuel Drugan	968	15	7 50
H H Bryne	969	10	5
John A Wright	972	10	5
Edward Durkin	974	1000	500
A M Gilman	1066	10	5
S W Cory	1105, 1114, 1120, 1121, 450	125	62 50

And in accordance with law, and an order of the Board of Trustees, made on the 6th day of April, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the salesroom of John Middleton & Son, No. 400 Montgomery street, on the 16th day of May, 1864, at the hour of 12 o'clock M. of said duty, to pay said delinquent asses sment thereon, together with costs of advertising and expenses of the sale.

T. L. BIBBINS, Secretary *pro tem.*

Office, 302 Montgomery street, San Francisco, Cal.
San Francisco, April 16th, 1864. 16-4t

The MINING AND SCIENTIFIC PRESS comes to us enlarged to double its old dimensions, and otherwise improved. The PRESS is the only journal on this coast devoted exclusively to mining and scientific matters, and should be read by miners everywhere. It is published weekly, at $5 per year.—*Oroville Union.*

Billett Gold and Silver Mining Company—Office, 509 Clay street, San Francisco, California, April 16th, 1864.—Whereas the Board of Trustees of the Billett Gold and Silver Mining Company, at a meeting duly called and held on the 5th day of March, A. D. 1864, directed, by vote, that an assessment of twelve and one-half (12½) cents per share be, and the same was thereby levied and assessed, on each and every share of the capital stock of the said Billett Gold and Silver Mining Company, payable immediately, in gold and silver coin of the United States, and that the Secretary of the said Billett Gold and Silver Mining Company sell the delinquent stock, first advertising the same for thirty (30) days, according to law, after causing notice of said assessment to be published according to law and the by-laws of the said Company; and whereas notice of said assessment has been published according to law and the order aforesaid, and the following named shareholders have made default in the payment of said assessment in the number of shares held by them, and set against their names respectively, as follows—to wit:

	Shares.	Amount.
A. Bryant	149	$18 63
Levi Lee	30	3 75
James Lefferts	5	62
M H Miller	20	2 50
A T Nesbit	10	1 25
James Billett	217	27 13
C A Moore	278	34 75
Josiah Batterfield	262	32 75
G H Hoag	20	2 50
W H White	42	5 25
J J Parker	5	63
W B Emerson	85	10 62
C Sherman	260	32 50
Levi Edwards	25	3 13
T G Cockrill	4	50
Mary A Fitch	5	63
James W Beavers	50	6 25
F J Beaumont	354	44 25
W H White	50	6 25
E J C Crow	10	1 25
Lizzie Nichols	12	1 50
Thomas J Isbell	50	6 25
Isaac N Crosby	50	6 25
C M Beebe	25	3 13
James Hamilton	82	10 25
John H Fowler	12	1 50
Whitehead Fowler	10	1 25
B F Nickersoo	188	23 50

Now therefore, under and in pursuance of law and the order aforesaid, notice is hereby given, that so many of the shares standing in the names of the persons above mentioned respectively, as will be necessary for the payment of the assessment aforesaid, together with the expenses of advertising and other expenses of the sale, will be sold, according to law and the by-laws of the said Billet Gold and Silver Mining Company, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, in the city and county of San Francisco, California, on WEDNESDAY, the 25th day of May, A. D. 1864, at 11 o'clock A. M. of that day, unless said assessment, with accruing charges, are previously paid. By order of the Board of Trustees. (16-4t) D. B. FRANCIS, Secretary.

Mechanics Gold, Silver and Copper Mining Company's Office No. 322 Front street, San Francisco, April 16, 1864. Notice is hereby given, that in accordance with the laws of the State of California, and the by-laws of said Company, and an order duly made by the Board of Trustees of the Mechanics Gold, Silver and Copper Mining Company, there will be sold at Public Auction, by Jerome Rice & Co., 327 Montgomery street, San Francisco, on WEDNESDAY, May 18th, 1864, at 11 o'clock A. M., to the highest bidder, for cash, in United States gold coin, so many shares of the stock of said Company, standing in the names of the following persons, or shareholders, as will be necessary for the payment of assessment No. 4, duly levied thereon, and still remaining due and unpuid, together with expenses of advertisement and all other expenses of sale, to wit:

Names.	No. Cert.	No. Shares.	Amount.
Fanny Mott	167	10	$0 50
F A Kimball	156	50	2 50
A Schwartz	—	10	50
H D Welsmore	277	10	50
Geo Tait	196	10	50
A A Sanford	428	10	50
F Gebhardt	235	5	25
Geo T Russell	—	40	2 00
S W Kimball	251	10	50
R G Francis	263	2	10
J W Bell	part of 253	5	25
J Smith	" 242	1	5
J S Beaker	" 29	5	25
Loring Roberison	" 313	8	40
J P Sheldon	" 115	5	25
H Wassels	213	5	25
W McCreary	232	15	75
E Swift	257	5	25
P M Kimball	252	10	50
John Ravels	206	10	50
C Schreiber	292 to 295, 322	95	4 75
Fred Carson	343	5	25
C Scheper	310	5	25
Mrs M Lillard	361	25	1 25
Mrs R G Cutter	336	5	25
G Obenauer	337	5	25
A F Omey	345	10	50
E Stratton	109 to 111, 113, 114	130	6 50
Chas Rhino	392	100	5 00
J H Turney	126	200	10 00
W B Marshall	395	40	2 00
A W Stratton	350, 351	200	10 00
Mrs M A Crosley	420	20	1 00
Geo Carry	138	25	1 25
J F Smith	228, 229	100	5 00
A H Stewart	192, 302	75	3 75
Louis Geanor	278, 279	100	5 00
C E Wetmore	part of —	10	50
S D Cary	4, 312	35	5 25
Mary Murphy	147	20	1 00
Silas Fuller	106, 107	50	2 50

By order of the Board of Trustees.

A. B. WINEGAR, Secretary,
16-4t No. 322 Front street, San Francisco.

Enterprise Tunnel & Mining Company, Reese River Mining District, Lander county, N. T.—NOTICE.—There is delinquent upon the following described stock in the above named Company, on account of assessment levied on the 23d day of October, 1863, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	Certificates.	Shares.	Amt.
Chas. Smith,	Nos. 81, 82, 83, 84	100	$25 00
A. Heindenhelmer,	Nos. 86, 87	50	12 50
Otto Kapuz,	Nos. 55, 56, 57, 58, 59	50	12 50
S. Rezzel,	Nos. 92, 93, 94, 95	100	25 00
W. Blum,	Nos. 96, 97	50	12 50
Daniel Fouly,	Nos. 98, 99	50	12 50
G. Schmidtbury,	No. 39	10	2 50
A. Lamb,	No. 35	15	3 75
C. W. Skinner,	Nos. 103, 109	100	25 00

And in accordance with law, and an order made by the Board of Trustees on the 12th instant, so many shares of each parcel of said stock as may be necessary will be sold, at the office of the Company, in the city of San Francisco, at 12 o'clock M., on SATURDAY, the 14th day of May, 1864, to pay said delinquent assessments thereon, together with costs of advertising and expenses of sale.

J. F. STIRLING, Secretary,
No. 502 Montgomery street, Room No. 1, 3d floor.
San Francisco, April 16, 1864. 16 td

Mount Zion Gold, Silver and Copper Mining Company, Clayton District, Contra Costa county, Cal.

Whereas, the Board of Trustees of the Mt. Zion Gold, Silver and Copper Mining Company did, on the 5th day of March, 1864, levy an assessment (No. 11) of twenty-five cents upon each and every share of the capital stock of said Company, legal notice of which assessment has been given to the Stockholders thereof; and whereas, the said Board of Trustees did, on the 5th day of April inst., declare delinquent all of said assessment then remaining unpaid, and order the same advertised for sale, In accordance with the laws of the State and the by-laws of the Company, therefore, notice is hereby given, that there will be sold, at the office of the Secretary, No. 240 Montgomery street, on MONDAY, the 16th day of May, 1864, at 12 o'clock M., a sufficient number of the shares of the capital stock of said Company, standing in the names of the following Shareholders respectively, to pay the said assessment, together with the costs of advertising and sale of the same, unless said assessments and costs of advertising shall have been sooner paid, to wit:

Name.	No. Cert.	No. Shares.	Amt. Due.
Paul Shirley	160	100	$25 00
Paul Shirley	161	25	6 25
Paul Shirley	162	25	6 25
Paul Shirley	163	25	6 25
Paul Shirley	164	25	6 25
T B Storer	186	50	12 50
T B Storer	187	50	12 50
T B Storer	188	25	6 25
T B Storer	189	25	6 25
T B Storer	190	20	5 00
T B Storer	191	20	5 00
S Barrow	72	20	6 20
S Barrow	73	20	6 20
S Barrow	75	20	6 20
S Barrow	76	20	6 20
S Barrow	138	5	1 55
R Hall	122	10	2 50
R Hall	123	5	1 25
R Hall	130	15	3 75
R Hall	257	20	5 00
R Hall	257	100	25 00
R Hall	260	50	12 50
R Hall	274	25	6 25
R Hall	281	10	2 50
R Hall	282	10	2 50
R Hall	283	15	3 75
R Hall	315	2	50
F P Green	44	25	6 25
F P Green	45	25	6 25
F P Green	77	25	6 25
F P Green	112	25	6 25
P M Bowen	15	10	2 50
P M Bowen	16	10	2 50
P M Bowen	17	10	2 50
P M Bowen	18	10	2 50
P M Bowen	19	10	2 50
James Cyrus	37	25	6 25
James Cyrus, tenth assessment	37	25	5 00
H H Byrne	127	25	6 25
H H Byrne	128	25	6 25
J J Haley	272	186	46 50
F J Blandlog	142	200	50 00
R H Blandlog	200	200	50 00
J F Williams	104	25	5 05
E H Baxter	189	10	2 50

A. G. WOOD, Sec'y.

Laurel Hill Mining Company, of Tuolumne County, California.

Notice is hereby given, that there is delinquent upon the following described stock, on account of assesment levied on the 13th day of February last, and assessments levied previously thereto, the several amounts set opposite the names of the respective Shareholdors, as follows:

Names.	No. cert.	No. Shares.	Amt. due.
M Thayer	34	25	$12 50
M Thayer	59	25	12 50
M Thayer	64	25	12 50
M Thayer	65	20	10 00
M Thayer	72	5	2 50
Geo Wheeler	76	25	12 50
Geo Wheeler	77	25	12 50
C S Higgins	133	25	12 50
C S Higgins	134	25	12 50
C S Higgins	189	25	12 50
C S Higgins	190	25	12 50
W Bosworth	76	25	12 50
W Bosworth	77	25	12 50
J J Larue	169	10	5 00
J J Larue	222	20	10 00
J J Larue	223	20	10 00
E A Rowe, three assessments	154	5	7 50
F F Webster	171	25	12 50
F F Webster	183	5	2 50
A G Turner	138	50	25 00
A G Turner	241	50	25 00
J H Webster	172	50	25 00
J H Webster	204	25	12 50
T H Goodman	67	25	12 50
F Dubedat	73	5	2 50
F Wolf	89	10	5 00
M Weil	127	5	2 50
P B Cornwall	142	5	2 50
J Hamblin, three assessments	153	20	30 00
J A Rawson	214	20	10 00
F W Gross	245	5	2 50
F W Gross	246	5	2 50
F W Gross	247	5	2 50
F W Gross	248	5	2 50
F W Gross	249	5	2 50
F W Gross	250	5	2 50
F W Gross	251	2	1 00

And in accordance with law, and an order of the Board of Trustees, made on the 13th inst., so many shares of each parcel of said stock as may be necessary will be sold by Jerome Rice & Co., public auctioneers, at the salesroom, No. 327 Montgomery street, San Francisco, on WEDNESDAY the 18th day of May next, at 11 o'clock A. M., to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

JOHN B. RUSSELL, Secretary.
16 Office 430 Jackson street, San Francisco.

Pride of Nevada Mining Company, Reese River Mining District, Nevada Territory.—Notice is hereby given, that, in accordance with the laws of the State of California and the by-laws of the Pride of Nevada Mining Company, there will be sold, at Public Auction, to the highest bidder, at the auction rooms of John Middleton & Son, No. 400 Montgomery street, San Francisco, on WEDNESDAY, May 18th, 1864, at 12 o'clock M., so many shares of the capital stock of said Company, standing in the names of the following persons, as will be necessary for the payment of the delinquent assessment due thereon, together with the expense of advertisement and the other expenses of the sale—to wit:

Names.	Shares.	Amt. due.
Charles S. Eaton,	64	$32
S. C. Blake (J. Lippman),	64	32
S. Goldstein,	64	32
George W. Chapin,	64	32
Joseph Lippman,	64	32
J. Robinson,	64	balance, 12
J. D. Enas,	64	balance, 12
Isaac Lippman,	64	balance, 12
A. W. Rice,	64	balance, 12
Joseph Figel,	64	balance, 12
William Stringer,	64	balance, 12
T. Prichard,	64	balance, 12
P. S. Hunter,	64	balance, 12

By order of the Board of Trustees. H. B. CONGDON, Sec'y.
16-4t 620 Washington street, Room 3.

Two Good Canvassing Agents can find profitable employment by calling at this office. None but active and competent men need apply.

Ida Gold and Silver Mining Company, Russ District, Tulare county, California.—Notice is hereby given, that on SATURDAY, May 14th, 1864, at noon, there will be sold, at Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, a sufficient number of shares in the capital stock of the Ida Gold and Silver Mining Company, standing in the names of the following persons, to pay the Assessment (No. 6) of one dollar per share, levied December 2, 1863, and the Assessment (No. 7) of two dollars per share, levied March 2, 1864, together with the expenses of advertising and sale, unless the same shall have been previously paid—viz:

Names.	Certificates.	Shares.	Am't.
Allen, R. K.	411	10	$20
Allanas, Blanche E.	334	2	4
Braly, M. A.	299	12	24
Bellows, Horace	545	4	12
Browning, Jacob	201	5	10
Cooke, Thomas	402	5	10
Dannenberg, Joseph	241	5	10
Davis, Henry L.	339	5	10
Davis William	410	20	40
Gray, Wm. J.	330	6	10
Gray, Wm. J.	431	14	28
Gray, Wm. J.	435	1	2
Green, Stephen	493	10	30
Green, H.	198	20	40
Green, H.	281	20	40
Greenwood, M.	203	3	6
Hafner, John	64	100	200
Haley, John J.	373	20	40
Hadler, Claus	508	5	10
Hermann, Charles	267	11	22
Hermann, Charles	287	5	10
Hermann, Charles	296	5	10
Hermann, Charles	466	14	28
Hermann, Charles	468	10	20
Hennenway, H. C.	429	6	12
Heath, James	319	2	4
Heath, James	409	12	24
Heath, James	539	6	12
Hitchings, Miss L. F.	430	2	4
Hodge, B. O.	6	5	10
Hodge, B. O.	7	5	10
Hodge, B. O.	8	5	10
Hodge, B. O.	187	5	10
Hodge, B. O.	242	2	6
Hopkins, M.	575	9	27
Ida Mill & Mining Co.	564	8	24
Johnson, P. R.	677	3	6
Kellogg, James	223	10	20
Kellogg, James	235	8	16
Kellogg, James	278	18	36
Kellogg, James	437	50	100
Lewis, R. P.	374	2	6
Longley, J. P.	384	4	8
Lovejoy, R. B.	203	3	6
Lyles, T. W.	298	25	50
Matthews, Oscar L.	548	5	15
Matthews, Oscar L.	550	5	15
Melnerney, Thomas	447	6	10
Miller, Leopold	171	5	10
Miller, Leopold	329	5	10
Miller, Leopold	367	6	10
Miller, Leopold	404	5	10
Miller, Leopold	405	2	4
Miller, Leopold	436	2	4
Miller, Leopold	476	8	16
Moulthrop, J. L.	472	10	20
Pratt, W. P.	155	8	16
Pratt, W. P.	428	10	20
Pratt, W. P.	429	8	16
Rand, D. H.	538	6	12
Roll, John	172	6	15
Roll, John	337	5	15
Roll, John	470	10	20
Schleicher, Jacob	387	5	10
Schleicher, Jacob	388	6	10
Sperry, James A.	525	25	50
Sperry, James A.	526	10	20
Sperry, James A.	527	12	24
Silverthorn, W. H.	78	4	8
Silverthorn, W. H.	140	3	6
Swigert, Adam	363	2	4
Schmolz, William	206	10	20
Scudder, Francis V.	485	5	10
Scudder, Francis V.	517	5	10
Taylor, John	578	2	6
Trenkle, Emil	286	10	20
Trenkle, Emil	295	10	20
Wallack, D.	77	5	10
Walters, G. F.	546	5	10
Wheeler, Zenas	127	4	8
Whitney, J. P.	442	20	40
Wittram, Charles	210	20	40
Whitson, B. F.	487	25	50
Wood, Joseph	207	7	14
Wood, Joseph	376	2	4
Wuthrich, John	374	40	80
Wynkoop, George C.	53	8	16
Yeates, John L.	49	2	6

By order of the Board of Trustees.

DAVID WILDER, Secretary,
16-td No. 240 Montgomery street, San Francisco.

Gold Point Gold and Silver Mining Company, Big Creek Mining District, Lander county, Nevada Territory, Office Nos. 1 and 2 Government House, corner Washington and Sansome streets, San Francisco.—Notice is hereby given, that, in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the Gold Point Gold and Silver Mining Company, there will be sold at Public Auction, at the office of the Company, at 11 o'clock A. M., on SATURDAY, the 30th day of April, 1864, so many delinquent shares of the capital stock of the Gold Point Gold and Silver Mining Company, standing in the names of the following persons, as will be necessary for the payment of Assessment No. 1, for twenty cents per share, levied August 21st, 1863, and Assessment No. 2, for thirty cents per share, levied December 1st, 1863, together with costs of advertising and expenses of sale, unless said assessments and charges are previously paid to the Secretary, at the office of the Company:

Names.	Shares.	Asst. No. 1—20c.	Asst. No. 2—30c
Brodhead, W. H.	200	$40 00	$50 00
Grotjan, G. W.	1	20	30
Marshall, Chas.	200	40 00	50 00
Parsons, S. H.	200		60 00
Turner, Geo. R.	9	1 80	2 70
Uhrig, C. A.	2	40	50
White, F. A.	200		60 00

S. C. GALLAHER, Secretary,
Office Nos. 1 and 2 Government House.
San Francisco, March 25th, 1864. 13-5t

NOTICE.

Notice is hereby given, that, in accordance with the laws of the State of California, and the by-laws of the Revere Gold and Silver Mining Company, there will be sold at Public Auction, at the sales room of Jerome Rice & Co., 327 Montgomery street, in the city and county of San Francisco, California, on WEDNESDAY, the 27th day of April, 1864, at 11 o'clock A. M. of said day, so many shares of the capital stock of the Company standing in the names of the following persons as will pay the assessments now due, together with cost of advertising and sale.

John W. Clark	41 shares.	$10 25
Henry Bourne	205 "	51 25
Henry Stede	5 "	1 25
Wm. B. Hull	5 "	1 25
C. F. Lincoln	100 "	25 00
Martin Durfee	100 "	25 00
	456 shares.	$114 00

15 4t
By order of the Board of Trustees. H. C. KIBBE, Sec'y.

Monarch Gold and Silver Mining Company, Big Creek Mining District, Lander county, N. T., Office No. 1 and 2 Government House, corner Washington and Sansome streets, San Francisco.—Notice is hereby given, that, in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the Monarch Gold and Silver Mining Company, there will be sold at Public Auction, at the office of the Company, at 11 o'clock A. M., on SATURDAY, the 30th day of April, 1864, so many delinquent shares of the capital stock of the Monarch Gold and Silver Mining Company, standing in the names of the following persons, as will be necessary for the payment of Assessment No. 1, levied August 21st, 1863, of twenty cents per share, and Assessment No. 2, levied January 21st, 1864, of fifty cents per share, together with costs of advertising and expenses of sale, unless said assessments and charges are previously paid to the Secretary, at the office of the Company:

Names.	No. of Shares.	Asst. No. 1—20c.	Asst. No. 2—50c
Brown, Geo. W.	65		$32 50
Brown, D.	85		42 50
Davis, C.	85		42 50
Fisher, S. G.	60		30 00
Grotjan, G. W.	4		2 00
Haddock, R. W.	85		42 50
Irvine, John.	50		25 00
Knason, C. S.	4		2 00
Nahl, H. W. A.	4		2 00
Parsons, S. H.	50		25 00
Phelps, T. G.	4		2 00
Palmier, E. C.	4		2 00
Thompson, J. L.	85	$17 00	42 50
Turner, John R.	8		4 00
Uhrig, C. A.	8		4 00

S. C GALLAHER, Secretary,
Office Nos. 1 and 2 Government House.
San Francisco, March 25, 1864. 13vs-5t

Plutus Gold & Silver Mining Company, Reese River Mining District, Lander county, N. T., office 1 and 2 Government House, northwest corner of Sansome and Washington streets, San Francisco.—Notice is hereby given, that, in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the Plutus Gold and Silver Mining Company, there will be sold at Public Auction, at the office of the Company, at eleven o'clock A. M., of SATURDAY, April 30, 1864, so many delinquent shares of the capital stock of the Plutus Gold and Silver Mining Company, standing in the name of the following persons, as will be necessary for the payment of Assessment No. 1, for thirty cents (30c) per share, levied August 21st, 1863; also Assessment No. 2, for seventy-five cents (75c) per share, levied November 23d, 1863; and Assessment No. 3, for fifty cents (50c) per share, levied January 26th, 1864, together with costs of advertising and expenses of sale, unless said assessments and charges are previously paid to the Secretary, at the office of the Company:

Names.	No. of Shares.	Asst. No. 1–30c	Asst. No. 2–75c.	Asst No. 3–50c.	Total am't
Atherton, A. P.	50	$15 00	$37 50	$25 00	$77 50
Allison, John	20			10 00	10 00
Bateman, I. C.	85		63 75	42 50	106 25
Boley, A. G.	10			5 00	5 00
Cleveland, Frank	150		112 50	75 00	187 50
Craig, R. R.	20			10 00	10 00
Harding, R. R.	50	15 00	37 50	25 00	77 50
Irvine, John	85	25 50	63 75	42 50	131 75
McComb, Wm.	85			42 50	42 50
Thompson, D. H.	150		71 25	67 50	138 75
Turner, Geo. R.	7	2 10	5 25	3 50	10 85
Willis, John M.	20			10 00	10 00
Woods, Phœbe A.	25			12 50	12 50

S. C. GALLAHER, Secretary.
No. 1 and 2 Government House, San Francisco.
San Francisco, March 25th, 1864. 13-5t

McComb Gold & Silver Mining Company, Reese River District, Lander County, Nevada Territory, Office No. 1 & 2 Government House, corner of Washington & Sansome Sts., San Francisco.—Notice is hereby given that in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the McComb G. & S. M. Co., there will be sold at public auction at the Office of the Company, at 11 o'clock A. M. on Saturday, the 30th day of April 1864, so many delinquent shares of the Capital Stock of the McComb G. & S. M. Co., standing in the names of the following persons as will be necessary for the payment of assessment No. 1 of 50 cents per share, levied Nov. 28, 1863, together with costs of advertisement and expenses of sale, unless said assessment and charges are previously paid to the Secretary at the Office of the Company.

NAMES.	SHARES.	ASS'T.	AMOUNT.
Askins, T. J.	65	$32.50	$32.50
Eaton, Ira A.	45	22.50	22.50
McComb, Robt.	90	45.00	45.00
Moloney, Jos. E.	62	31.00	31.00
Marshall, Chas.	49½	24.75	24.75
Rowe, John	4½	2.25	2.25

No. 1 & 2 Gov't House. HENRY S. BROOKS, Sec'y.
San Francisco, March 25th, 1864. 13-5t

Bodie Consolidation Gold and Silver Mining Company, No. 2.—Office, southwest corner of Clay and Montgomery streets, San Francisco.—Notice is hereby given, that in accordance with an order made on the 4th instant, by the Board of Trustees of the Bodie Consolidation Gold and Silver Mining Company, No. 2, there will be sold at public auction, by Jerome Rice & Co., at their salesroom, No. 327 Montgomery street, San Francisco, on WEDNESDAY, the 27th day of April, A. D. 1864, at 11 o'clock A. M., a sufficient number of shares of the capital stock of said Company, standing in the names of the following persons, as may be necessary to pay the assessment levied January 14th, 1864, together with the expense of advertising and sale, unless said assessment and charges are previously paid:

	SHRS.	ASS'T DUE.
William Ayres, Sr.....Cert. 482, 483, 484, 485, 486. .....Shrs. 10, 10, 10, 10, 10.	50	$25 00
Miles Chapin.....Cert, 129, 130, 312, 313. .....Shrs. 15, 10, 10, 10.	45	22 50
G. S. Chapin.....Cert. 305, 306. .....Shrs. 25, 25.	50	25 00
A. L. Chamberlin.....Cert. 358.	25	12 50
L. H. Dearborn.....Cert. 509.	24	12 00
Thomas Gardner.....Cert. 288.	20	10 00
James Lang.....Cert. 513.	15	7 50
Jas. F. McFarland.....Cert. 116, 118, 121, 122, 124, 126. .....Shrs. 50, 10, 10, 10, 10, 10.	100	50 00
M. S. Martin.....Cert. 380.	250	125 00
L. W. Newell.....Cert. 435. 436, 451, 452. .....Shrs. 25, 15, 15, 10.	65	32 50
Jonathan Peel.....Cert. 512, 513, 514. .....Shrs. 50, 50, 25.	125	62 50
Edward Rondel.....Cert. 412, 413. .....Shrs. 7, 5.	12	6 00
W. D. Robinson .....Cert. 508.	25	12 50
C. H. Stoutenborough.....Cert. 364.	20	10 00
Jesse D. Spray.....Cert. 515.	25	12 50
Edward Donahue.....Cert. 512, 514. .....Shrs. 25, 25.	50	25

By order of the Board of Trustees.
A. L. CHAMBERLIN, Secretary.
San Francisco, March 12, 1864. 12vs-6t

Mr. Jarvis Jewett is our duly authorized advertizing agent and collector in this city.

Enterprise Gold and Silver Mining Company Location, El Dorado Canon, Arizona Territory.—Notice is hereby given, that, in accordance with the laws of the State of California, and in pursuance of an order made by the Board of Trustees of the Enterprise Gold and Silver Mining Company, at a meeting held March 23d, A. D. 1864, a sufficient number of shares of the capital stock of said Company, standing in the name of the following persons, will be sold at Public Auction, to the highest bidder for cash, in U. S. gold coin, at the office of the Company, No. 622 Washington street, San Francisco, on THURSDAY, the 28th day of April, A. D 1864, at 2 o'clock P. M., as will pay Assessment No. 1 and 2, of amount and date as stated below, due and delinquent thereon, together with all costs accruing from advertising, sale, etc., if not previously paid—to wit:

Assessment No. 1, of fifty (50) cents per share, levied Sept. 7, 1864.

Names.	No. Shares.	Amt
J. H. Williams.	250	$125 00
A. M. Bennett	45	22 50
M. D. Fairchild	50	25 00
S. L. DeLano	10	5 00
C. A. James	33	16 50
Robert Kelr	75	37 50
Alexander Kelr	75	37 50
William Woschnehraft	75	37 50
C. W. Young	2	1 00

Assessment No. 2, of fifty (50) cents per share, levied Feb. 8, 1864.

A. M. Bennett	47	23 50
Thomas Brown	5	2 50
J. P. Clark	20	10 00
Joseph Coulter	10	5 00
S. L. DeLano	10	5 00
Columbia Dyer	5	2 50
M. D. Fairchild	35	17 50
C. Fink	5	2 50
Jacob Heintz	5	2 50
August Hess	5	2 50
C. A. James	40	20 00
O. E. Johnson	25	12 50
Abraham Jones	10	5 00
Robert Kelr	75	37 50
Alexander Kelr	75	37 50
John Miller	100	50 00
J. F. Ridler	5	2 50
T. H. Williams	255	127 50
William Woschnehraft	75	37 50
C. W. Young	5	2 50
F. A. Bruch	10	5 00

By order of the Board of Trustees.
L. B. WOOSTER, Secretary,
13-4t Office 622 Washington street, Room 13, S. F.

Saxon Copper Mining Company, Calaveras Co., Cal.—Notice is hereby given that in accordance with the laws of the State of California and an order duly made by the Board of Trustees of this Company, there will be sold at Public Auction at the office of the Company, at Copperopolis, on the 10th day of May, A. D. 1864, at three o'clock, p. m. of that day, to the highest bidder, for cash, in United States gold coin, so many shares of the capital stock of said Company standing in the names of the following shareholders as will be necessary for the payment of the assessments duly levied thereon by the Board of Trustees, together with the expense of advertisement and sale, unless said assessment and charges are paid before said sale.

Names.	No. Certificates.	Shares.	Amt.
Thomas H. Binnix,	3	50	23 50
Thomas H. Binnix,	63	50	23 50
Thomas H. Binnix,	64	100	47 00
Thomas H. Binnix,	75	50	23 50
Thomas H. Binnix,	76	10	4 70
Thomas H. Binnix,	77	10	4 70
Thomas H. Binnix,	78	10	4 70
Thomas H. Binnix,	79	10	4 70
J. H. Titcomb,	24	100	47 00
J. H. Titcomb,	27	25	11 75
J. H. Titcomb,	28	25	11 75
A. D. Titcomb,	84	25	11 75
J. S. Coleman,	45	25	7 50
J. S. Coleman,	46	25	7 50
J. S. Coleman,	47	25	7 50
J. S. Coleman,	48	25	7 50
J. S. Coleman,	50	10	3 00
J. S. Coleman,	51	10	3 00
J. S. Coleman,	52	10	3 00
J. S. Coleman,	73	5	1 50
J. S. Coleman,	74	5	1 50
M. R. Garrard,	87	50	44 50
M. R. Garrard,	88	50	44 50
M. R. Garrard,	89	50	44 50

By order of the Board of Trustees.
16-4t L. HONIOSBERGER, Sec'y.

Potomac Gold and Silver Mining Company, Reese River Mining District, Lander county, N. T.—Office 509 Clay street San Francisco.—Notice is hereby given, that, in accordance with the laws of the State of California and an order duly made by the Board of Trustees of the Potomac Gold and Silver Mining Company, there will be sold at Public Auction, at the salesroom of Jno. Middleton & Son, at 12 o'clock, noon, of MONDAY, the 2d day of May, A. D. 1864, so many shares of the capital stock of said Company, standing in the names of the following persons on its books, as may be necessary for the payment of Assessment No. 1, duly levied thereon August 24, 1863, and Assessment No. 2, duly levied thereon January 25, 1864—each assessment twenty-five (25) cents—together with the cost of advertisement and sale, unless the said assessments are previously paid, with costs accrued:

Names.	Asst. No.	Cert.	Shares.	Amt.
A. Faust	1	2	16	5	$ 2 50
Robert Lewy	1	2	8	100	50 00
do	1	2	20	25	12 50
Leslie Bayley	1	2	31	5	2 50
R. Lewy		2	37	100	25 00
do		2	38	160	40 00
C. W. Roberts		2	22	25	6 25
J. H. Hardy		2	25	50	12 50
do		2	26	20	5 00
do		2	27	20	5 00
do		2	28	10	2 50

GEO. A. BALL, Secretary.
San Francisco, April 2, 1864. 14-4t

Cloverdale Mining Company, Sonoma County, California—Office, 430 Montgomery street, San Francisco.—Notice is hereby given, that in accordance with the laws of the State of California, the by-laws of the Company, and an order duly made by the Board of Trustees of the Cloverdale Mining Company, on the 31st of March, 1864, there will be sold at Public Auction, to the highest bidder for cash, in United States gold coin, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on WEDNESDAY, the 4th day of May, 1864, at 11 o'clock A. M., so many shares of the capital stock of said company, standing in the names of the following persons, as will be necessary for the payment of all deliquent assessments thereon, together with the expense of advertising and sale, unless the same are previously paid:

Names.	No. Asst.	No. Cert.	No. Shs.	Am't
T. T. Bradshaw	3	—	40	$10 00
H. Ellis	3	139	10	2 50
H. Ellis	3	140	10	2 50
H. Ellis	3	141	10	2 50
H. Ellis	3	143	10	2 50
J. W. Henderson	3	77	5	1 25
J. J. Haley	3	—	100	25 00
M. Wormer	2 and 3		10	5 00
J. H. Whitman	2 and 3		4	2 00
— Mellon	3	144	2	50

15-4t M. WINN, Secretary.

Burgess Silver Mining, Company Reese River District, Nevada Territory.

Belle Creole Silver Mining Company, Reese River District, Nevada Territory.

Olive Branch Silver Mining Company, Reese River District, Nevada Territory.

Swift Silver Mining Company, Reese River District, Nevada Territory.

Paul Silver Mining Company, Reese River District, Nevada Territory.

Notice is hereby given, that in accordance with the laws of the State of California, and in pursuance of orders made by the respective Boards of Trustees of the above named Companies, at meetings held on the 1st day of April, A. D. 1864, a sufficent number of shares of the capital stock of each of the above named Companies standing in the names of the following persons will be sold at Public Auction, to the highest bidder, at the office of those Companies, No. 224 Montgomery street, San Francisco, on the fifth day of May, A. D. 1864, at 11 o'clock A. M., as will pay Assessment No. 1, of each of them, of twenty-five cents, all levied on the 23d of November, A. D. 1863, and Assessment No. 2, of each of them, of one dollar all levied on the 26th day of February, A. D. 1864, due and delinquent thereon, together with all costs accruing from advertising, sale etc. if not previously paid:

BUROESS COMPANY.

Name.	No. Certs.	No. Shares.	Asst. No. 1.	Asst. No. 2.	Total
Sarah A. Bull	4	25		$25 00	$25 00
E. H. Pierce	5	10	2 50	10 00	12 50
George Swift	2 and 3	15	3 75	15 00	18 75
H. Burgess	12	173	43 25	173 00	216 25
F. B. Dole	22	187		187 00	187 00
Eug. Casalis	20 and 21	76		75 00	75 00
Belinda Fowler	1	10	2 50	10 00	12 50
J. F. Michel	7	10	2 50	10 00	12 50

SWIFT COMPANY.

George Swift	3, 4 and 33	No. 1—81 / No. 2—31	20 25	31 00	61 25
James Flinn	32	86	21 50	86 00	107 50
H. Burgess	31	86	21 50	86 00	107 50
C. D. Caven	7	23	5 75	23 00	28 75
Robert E. Lowery	22, 23, 24, 25	No. 1—6 / No. 2—86	1 50	86 00	87 50
John Croyland	26, 27, 28, 29	43	10 75	43 00	53 75
Belinda Fowler	1	10		10 00	10 00
C. H. Kellogg	6	10		10 00	10 00
J. F. Michel	8	10		10 00	10 00
Chas. McConnell	2	10		10 00	10 00
W. W. Tinker	5	10		10 00	10 00
E. Ernest	9, 10, 11, 12, 13 / 14, 15, 16, 17, 18	86		86 00	86 00
D. Deeth	30	5		6 00	5 00

BELLE CREOLE COMPANY.

R. E. Lowery	13, 14, 15, 16, 17 / 18, 19, 20, 21	161		161 25	161 25
Chas. D Caven	8	84	21 00	84 00	105 00
John Croyland	22, 23, 24, 25	175	43 75	175 00	218 75
S. A. Murdock	23	176	43 75	175 00	218 75
T. O. Jackson	29	88	22 00	88 00	110 00
Geo. Swift	3, 4 and 27	No. 1—82 / No. 2—47	20 50	47 00	67 50
Sarah A. Bull	5	25		25 00	25 00
Octavia W. Pray	1	6		6 00	5 00
J. N. Travers	2	10		10 00	10 00
C. W. Kellogg	6	10		10 00	10 00
J. F. Michel	9	10		10 00	10 00
D. Deeth	26	5		5 00	5 00

OLIVE BRANCH COMPANY.

Chas. D. Caven	9	83	20 75	83 00	103 75
Robert E. Lowery	14, 15, 16, 17	No. 1—65 / No. 2—85	16 25	85 00	101 25
J. P. Tiernan	20	85	21 25	85 00	106 25
S. A. Murdock	21	85	21 25	85 00	106 25
George Swift	4, 5 and 19	No. 1—80 / No. 2—30	20 00	30 00	50 00
C. E. Blake	1	10		10 00	10 00
Chas. McConnell	2	10		10 00	10 00
W. W. Tinker	3	10		10 00	10 00
Chas. McHenry	7	10		10 00	10 00
Sarah A. Bull	6	25		25 00	25 00
J. F. Michel	10	10		10 00	10 00
D. Deeth	18	5		5 00	6 00

PAUL COMPANY.

John Croyland	12, 13, 14, 15	174	43 50	174 00	217 50
S. A. Murdock	17	22	5 50	22 00	27 50
C. D. Caven	7	68	17 00	68 00	85 00
George Swift	2, 3, 18	No. 1—164 / No. 2—139	42 25	139 00	181 25
H. Burgess	19	174	43 50	174 00	217 50
Sarah A. Bull	4	25		25 00	25 00
C. E. Blake	1	10		10 00	10 00
Thos. Ludlam	5	10		10 00	10 00
J. F. Michel	8	10		10 00	10 00
D. Deeth	16	5		5 00	5 00

By order of the Boards of Trustees.

15-5t WM. T. ATWOOD, Secretary.

Phœbus Gold and Silver Mining Company, Big Creek Mining District, Lander county, N. T.—Office No. 1 and 2 Government House, corner Washington and Sansome streets, San Francisco.—Notice is hereby given, that, in accordance with the laws of the State of California, and a resolution adopted by the Board of Trustees of the Phœbus Gold and Silver Mining Company, there will be sold at Public Auction, at the office of the Company, at 11 o'clock A. M., on SATURDAY, the 30th day of April, 1864, so many delinquent shares of the capital stock of the Phœbus Gold and Silver Mining Company, standing in the names of the following persons, as will be necessary for the payment of Assessment No. 1, of twenty cents per share, levied August 21st, 1863, and Assessment No. 2, for fifty cents per share, levied December 1st, 1863, and Assessment No. 3, for fifty cents per share, levied January 26th, 1864, together with costs of advertising and expenses of sale, unless said assessments and charges are previously paid, to the Secretary, at the office of the Company:

Names.	Shares.	Asst. No. 1-20c.	Asst. No. 2-50c.	Asst. No. 3-50c.
Adams, W. P.	11			$5 50
Brown, B. R.	13			6 50
Bland, Adam	10			5 00
Francis, D. B.	7¼		$ 3 75	3 75
Gray, B. J.	59		29 50	29 50
Gray, John	130		51 50	53 50
Grogan, G. W.	25		12 50	12 50
Goyan, F.	10			5 00
Harvey, Joseph	25			12 50
Harvey, James	25			12 50
Irvine, John	190	$38 00	95 00	95 00
Kasson, C. S.	11			5 50
Nahl, H. W. A.	11		5 50	5 50
Parsons, S. H.	170	34 00	85 00	85 00
Phelps, T. O.	11			5 50
Palmer, E. C.	11			5 50
Perkins, J. L.	25			12 50
Rogers, W. H.	100			50 00
Rogers, Robt	5			2 50
Ralph, Thomas	25			12 50
Steere, Robt	25			12 50
Strout, E. N.	25			12 50
Sherwood, Benj.	10			5 00
Turner, Geo. R.	23		11 50	11 50
Uhrig, C. A.	23		11 50	11 50
Valentine, S. D.	7¼		3 75	3 75

S. C. GALLAHER, Secretary.

San Francisco, March 25th, 1864. 13-5t

Desert Mining Company, Flowery District, N. T.—Notice is hereby given, that on SATURDAY, the twenty-third day of April, 1864, at 12 o'clock, M., there will be sold at auction, at the salesroom of John Middleton & Son, No. 100 Montgomery street, San Francisco, a sufficient number of shares in the capital stock of the Desert Mining Company, standing in the names of the following persons, to pay the assessment (No. 10) of one dollar per share, levied January 20, 1864, together with the expenses of advertising and sale, unless the same shall have been previously paid, viz:

NAMES.	CERTIFICATE.	SHARES.	AM'T.
Bayerque, R.	296	10	$10
Bayerque, R.	319	5	5
Budd, W. C.	304	5	5
Budd, W. C.	305	6	6
Budd, W. C.	345	5	5
Budd, W. C.	346	20	20
Budd, W. C.	347	20	20
Budd, W. C.	348	20	20
Budd, W. C.	349	20	20
Budd, W. C.	350	20	20
Cahill, Edward	274	25	25
Cahill, Edward	303	70	70
Critcher, Henry	300	10	10
Critcher, Henry	317	10	10
Cullen, Jeffrey	151	25	25
Cullen, Jeffrey	154	25	25
Davis, G. H.	352	25	25
Donohue, Ralston & Co.	271	20	20
Fitch, J. R.	360	50	50
Hall, R.	343	6	5
Hay, A. M.	289	5	6
Hall, O. C.	329	5	5
Hedley, P. D.	358	12	12
Hemiray, R.	250	10	10
Hyndhe, P. & Co.	228	20	20
Hyman, P. C.	229	20	20
Ireland, L. F.	288	10	10
*Lyon, J. H.	6, 6, 22 to 28	100	200
Milliken, I. F.	297	25	25
Moody, W. E.	251	10	10
Morgan, George J.	273	10	10
Morrison, J. C.	280	6	5
Nesmith, J. F.	361	25	25
O'Brien, John	323	3	3
O'Brien, John	326	12	12
Reinhart, E.	330	20	20
Spiers, C. D.	269	25	25
Schmiedell, Henry	356	5	5
Stoutenborough, C. H.	265	10	10
Tobin, R. J.	154	10	10
Van Tassell, T.	221	10	10
Watson, N. A.	140	5	5
Young, D. W.	325	20	20
Young, D. W.	339	5	5

By order of the Board of Trustees.

DAVID WILDER, Secretary,
No. 240 Montgomery street, San Francisco.

* NOTE.—100 shares in the name of J. H. Lyon will be sold subject to assessment No. 9, of one dollar per share, levied March 12, 1863.

12v8-5t DAVID WILDER, Secretary.

Omaha Copper Company, Calaveras County.—Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Omaha Copper Company, there will be sold at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on SATURDAY, April 23d, prox., at 11 o'clock A. M. of that day, to the highest bidder for cash, in U. S. gold coin, so many shares of the capital stock of said Company, standing in the names of the following shareholders, as will be necessary for the payment of assessments duly levied thereon by the Board of Trustees, on the 28th of December, 1863, and on the 5th of February, 1864, of twenty cents per share each, together with the expenses of advertising and sale—to wit:

Names.	No. of Shares.	No. Asst.	Amt.
Z. Coffin	50	3	$10
S. Foster	6	3	1
I. L. Champlin	10	3	2
S. B. Wooster	15	3	3
F. A. Burch	10	2 3	4
S. C. Norton	10	2 3	4

By order of the Board of Trustees.

13-4t T. A. MUDGE, Secretary, 528 Clay street.

Enterprise Copper Mining Company, Placer County, Cal.—Office 645 Clay street, San Francisco.—At a meeting of the Board of Trustees of this Company, held March 12th, 1864, an assessment (No. 12) of 50 cents per share was levied upon each and every share of the capital stock of said Company, payable immediately, in gold coin, to Thos. Levy, Treasurer, at Lincoln, Placer county, or to the Secretary, at the office of the Company. The Board also gives notice that whatever assessments have been paid in on Numbers 7 to 11 inclusive will be credited on Assessment No. 12. By order of the Board of Trustees. M. G. ELMORE, Sec'y.

San Francisco, March 12th, 1864. 14-tf

Roderick Gold and Silver Mining Company, Reese River Mining District, N. T.—Notice is hereby given, that at a meeting of the Board of Trustees of the above named Company, held this day (March 31st, 1864,) at the office of the Company, an Assessment of two dollars ($2) per share was levied on each and every share of the capital stock of said Company, payable immediately, in gold coin, at the office of the Secretary, No. 224 Montgomery street, San Francisco, or to Julius Siehel, Corresponding Secretary, at Austin, N. T. WM. T. ATWOOD, Secretary.

San Francisco, March 31, 1864. 14-4t

Index Mining Company (Location, Copper Canon District, Copperopolis, Cal.)—Office, 415 Montgomery street, San Francisco, March 30, 1864.—Notice is hereby given, that at a meeting of the Board of Trustees of the Index Mining Company, held March 23, 1864, an Assessment of fifty cents per share was levied upon the capital stock of the Company, and made due and payable immediately, in U. S. coin, to the Secretary, at the office of the Company. Certificates of stock are now ready for delivery on payment of this assessment.

☞ The first annual meeting of the Stockholders of the Index Mining Company will be held at the office of the Company on SATURDAY EVENING, APRIL 30, 1864, at 8 o'clock, for the adoption of by-laws, election of Trustees for the ensuing year, etc. By order of the Board of Trustees. [14-5t] RICHARD C. ALDEN, Sec'y.

The Daily Evening Express, at Victoria, Vancouver Island is published by Messrs Wallace, Allen & Hardyngc. Terms of subscription: One year, by mail, $10; six months, $6. It contains the late, Mining, Commercial, and General News, up to the hour of going to press. Being the ONLY EVENING PAPER published in Victoria, and having a circulation equal to any other Journal in the Colony, it will be found an excellent medium to enable advertisers to bring their notices before the Public. W. H. TOBEY,

Agent, Government House, San Francisco. 15-tf

CAUTION.—Parties incorporating mining companies, who desire the choice of advertising in either a daily or weekly newspaper, should be particular to cross out the word "daily" when using the form of blank by-laws sold by the stationers of this city.

Office of the Eureka Mining Company, Location of Works, Mineral Spring Mining district, County of Calaveras and State of California.

Notice is hereby given, that at a meeting of the Trustees of said Company, held on the 12th day of April, 1864, an Assessment of 20 cents per share was levied upon the Capital Stock of said Company, payable on the 16th day of April 1864 in United States Gold Coin, to the Secretary, at the Office of the Company, No. 625 Clay St., San Francisco, California.

Any stock upon which said Assessment shall remain unpaid on the 14th day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 30th day of May, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale.

C. W. HAYDEN, Sec'y.

Office, at No. 625 Clay Street, San Francisco, California. 16-4t

Rose Linda Mining & Manufacturing Company, Mokelumne Mining District, Amador County, Cal.—Notice is hereby given that at a meeting of the Trustees of the above Company, held on the 11th day of April, 1864, an assessment of Fifty (50) cents per share was levied upon the Capital Stock of said Company, payable in Gold and Silver coin on the 11th day of May next, to the Secretary, at the Office of the Company, 509 Clay St., Room No. 2.

Any Stock upon which said assessment shall remain unpaid on the 11th day of May next, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 26th day of May 1864, at the Office of the Company 509 Clay St., to pay the delinquent assessment, together with the costs of advertising and expenses of sale. HENRY HALE, Sec'y.

San Francisco, April 11th, 1864, 16-4t

Mammoth Gold and Silver Mining Company, Reed Spring District, San Bernardino Co.

Notice is hereby given that at a Meeting of the Board of Trustees of said Company, held on the 13th day of April, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on the 15th day of April, 1864, in United States gold and silver coin, to the Secretary, or to Wm. H. Hilton, Superintendent, at the mine.

Any stock upon which said Assessment shall remain unpaid on the 14th day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 28th day of May, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

GEORGE BOWER, Secretary.

Office, No. 611 Clay street, San Francisco. 16-td

Butte Gold and Silver Mining Company, Reese River Mining District, Lander Co., N. T.

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 16th day of April, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on the 16th day of May, 1864, in United States gold and silver coin, to the Secretary, or to Dr. A. K. Stearns, Superintendent of the mine, at Austin, N. T.

Any stock upon which said Assessment shall remain unpaid on Saturday the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 4th day of June, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale, By order of the Board of Trustees.

J. F. STIRLING, Secretary.

Office, 602 Montgomery street, San Francisco. 16-4t

Wide West Copper Mining Company, Office 645 Clay street, San Francisco, March 26th, 1864.—Notice is hereby given that an assessment, No. 3, of thirty cents per share was this day levied on each and every share of the Capital Stock of the Wide West Copper Mining Company, payable in U. S. Gold Coin, to the Secretary at the Office of the Company or to J. M. PIKE, Superintendent Copperopolis. By order of the Board of Trustees.

14-4t M. G. ELMORE, Sec'y.

Revere Gold & Silver Mining Company, Reese River Mining District.—Office No. 22 Lyceum Building, San Francisco February 23d, 1864.—Notice is hereby given that an assessment of Twenty-five cents per share was this day levied on each and every share of the Capital Stock of the above named Company, payable immediately in U. S. Gold Coin, to the Secretary, at the Office of the Company. By order of the Board of Trustees.

15-4t. H. C. KIRBE, Sec'y.

Rock Rose Gold and Silver Mining Company, Gold Hill, N. T.—Office 605 Sacramento street, San Francisco, April 5th, 1864.—Notice is hereby given, that at a meeting of the Board of Trustees of the Rock Rose Gold and Silver Mining Company, held at the office of said Company, this day, there was duly levied an assessment of twenty-five cents on each and every share of the capital stock of said Company, payable immediately, in gold coin, to the Secretary, at the office of the Company, or to R. H. NASON, Superintendent, at the mine. By order of the Board of Trustees.

15-4t S. C. GARDNER, Secretary.

Prima Donna Gold and Silver Mining Company, Devil's Gate District, N. T.—Notice is hereby given, that the Board of Trustees of the Prima Donna Gold and Silver Mining Company, at a meeting held April 2d, 1864, levied an assessment (No. 6) of fifty cents on each and every share of the capital stock of said Company; said assessment payable immediately, in gold coin, to the Secretary, at 620 Washington street, San Francisco, or to FRANKLIN MORGAN, Superintendent, at Silver City, N. T.

15-4t H. B. CONGDON, Secretary.

Revere Gold and Silver Mining Company.—Notice is hereby given, that at a meeting of the Board of Trustees of the Revere Gold and Silver Mining Company, held this 26th day of March, 1864, an assessment of one dollar and fifty cents ($1.50) per share was levied upon each and every share of the capital stock of said Company, to be paid immediately, in United States gold coin, to the Secretary, at his office, northwest corner of Washington and Montgomery streets, in the city and county of San Francisco, California. By order of the Board of Trustees.

15-5t H. C. KIBBE, Secretary.

Puritan Gold and Silver Mining Company, Devil's Gate District, N. T.—Notice is hereby given, that the Trustees of the Puritan Gold and Silver Mining Company have this day levied an Assessment (No. 2) of fifty cents on each and every share of the capital stock of said Company, payable immediately, in gold coin, to the Secretary; at the office, No. 620 Washington street, San Francisco, or to H. W. Arnold, at Silver City, N. T.

March 31st, 1864. (14-4t) H. B. CONODON, Secretary.

New this Week.

Meteor Gold & Silver Mining Company, Reese River District, Nevada Territory,

Pontiac Gold & Silver Mining Company, Reese River District, Nevada Territory,

Hyack Gold & Silver Mining Company, Reese River District, Nevada Territory.

Butler Gold & Silver Mining Company, Reese River District, Nevada Territory.

Enterprise Gold & Silver Mining Company, Reese River District, Nevada Territory.

Essex Gold & Silver Mining Company, Reese River District, Nevada Territory.

Notice is hereby given, that, in accordance with the laws of the State of California, and in pursuance of orders made by the respective Boards of Trustees of the above named Companies, at meetings held on the 19th day of October, A. D. 1863, a sufficient number of shares of the capital stock of each of the above Companies, standing in the names of the following persons, will be sold at Public Auction, to the highest bidder, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, in the city and county of San Francisco, on WEDNESDAY, the 25th day of May, A. D. 1864, at 11 o'clock A. M. of that day, to pay Assessment No. 1, of each of them, of 20 cents per share, all levied on the 19th day of October, A. D. 1863, due and delinquent, together with all costs accruing from advertising, sale, etc., if not previously paid.

METEOR GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
Daniel Liggett	20	$4 00
E A Isaacs	166⅔	33 35
Frank Snow	166⅔	33 35
John A Weaver	96⅔	19 35
John A Weaver	70	14 00
George W Lect	101⅔	20 35
W W Hartman	33⅓	6 67
W W Hartman	83⅓	16 67
R Smith	25	5 00
John Ellis	25	5 00
Hiram Stuteville	25	5 00
Joseph Brookshaw	41⅔	8 26

PONTIAC GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
W H Springer	212½	$42 50
R D Northey	212½	42 50
J P Ellis	170	34 00
S Scott	170	34 00
T A Waterman	42½	8 50
W C Phillips	21½	4 25
D E Waldron	21¼	4 25

HYACK GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
H B Hixon	116	$23 20
Geo S Hupp	25	5 00
J C Duffey	77½	15 50
E A Isaacs	92½	18 50
M J Ferrell	116	23 20
J J Rolf	155	31 00
Wm Rose	77½	15 50
W W Hartman	70	14 00

BUTLER GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
A C Laughlin	100	$20 00
J McDonough	10	2 00
J Beede	50	10 00

ENTERPRISE GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
A C Laughlin	96	$10 20
Ira W Dearborn	50	10 00
John McDonough	10	2 00
Robert McMillan	50	10 00
S S Greenewood	125	25 00

ESSEX GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
Joseph Davidson	25	$5 00
W W Hartman	31	6 20
Geo S Hupp	25	5 00
S McBrown	54⅜	10 88
Robert Smith	25	5 00
Hiram Stuteville	10	2 00
John Ellis	40⅝	8 12

D. B. FRANCIS, Secretary.
17-4t Office, 509 Clay street, San Francisco.

Nicolans Gold and Silver Mining Company, Reese River District, N. T.

Scottish Chief Gold and Silver Mining Company, Reese River District, N. T.

Notice is hereby given, that in accordance with the laws of the State of California, and in pursuance of orders made by the respective Boards of Trustees of the above named companies, at meetings held on the nineteenth day of October, A. D. 1863, a sufficient number of shares of the capital stock of each of the above companies standing in the names of the following persons will be sold at Public Auction to the highest bidder, at the salesroom of Jerome Rice & Co., No. 327 Moutgomery Street, in the City and County of San Francisco, on WEDNESDAY, the 25th day of May, A. D. 1864, at eleven o'clock A. M. of that day, to pay assessment No. 1 of each of them of ten cents per share, all levied on the 19th day of October, A. D. 1863, due and delinquent, together with all costs accruing from advertising sale, etc, if not previously paid:

NICOLAUS GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
W C Phillips	10	$1 00
E Hamel	37½	3 75
B Toland	36½	3 75
W W Cole	150	15 00
M G Lee	165	16 50

SCOTTISH CHIEF CONSOLIDATED TUNNEL AND MINING COMPANY.

Names.	Shares.	Amount.
J M Crump	25	$2 50
J W Davidson	25	2 50
S McBrown	157 3-11	15 75
E A Isaacs	163 7-11	16 40
W W Hartman	71 7-11	7 20
Daniel Liggett	27 3-11	2 75

D. B. FRANCIS, Secretary,
17-4t Office, 509 Clay street, San Francisco.

We have received the first number of the eighth volume of this interesting paper. It is now under the control of friend Dewey, and has been enlarged to sixteen pages. We commend it to miners, stock dealers, and others taking an interest in the development of the mineral lands of this State. It can be had for $5 a year, and if preserved will make two volumes of interesting matter, containing 416 pages each.—*Red Bluff Independent*

Samantha Consolidated Gold & Silver Mining Company, Reese River District, N. T.

Lewis Consolidated Gold & Silver Mining Company, Reese River District, N. T.

Memphis Gold & Silver Mining Company, Reese River District, N. T.

John J. Crittenden Gold & Silver Mining Company, Reese River District, N. T.

Grafton Gold & Silver Mining Company, Reese River District, N. T.

Tehama Gold & Silver Mining Company, Reese River District, N. T.

Notice is hereby given, that, in accordance with the laws of the State of California, and in pursuance of orders made by the respective Boards of Trustees of the above named Companies, at meetings held on the 19th day or October, A. D. 1863, a sufficient number of shares of the capital stock of each of the above Companies, standing in the names of the following persons, will be sold at Public Auction, to the highest bidder, at the salesroom of Jerome Rice & Company, Number 327 Montgomery street, in the city and county of San Francisco, on WEDNESDAY, the 25th day of May, A. D. 1864, at 11 o'clock A. M. of that day, to pay Assessment No. 1 of each of them, of twenty-five cents per share all levied on the 19th day of October, A. D. 1863, due and delinquent, together with all costs accruing from advertising, sale, etc., if no, previously paid.

SAMANTHA CONSOLIDATED GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount5
Geo S Croft	25	$6 20
Geo S Hupp	20	5 05
J W Wilson	25	6 20
John Ridgway	50	12 50
Alpheus Bull	400	100 05
Wm R Young	25	6 20
Geo W Lect	450	112 50
M Liggett	300	75 00
J M McCloud	150	37 50
Wm Coverdill	114	28 50
J S Currio	360	90 00
E A Isaacs	350	87 50
W L Buchtal	50	12 50
Wm Ellis	10	2 50
John Garber	10	2 50
W W Hartman	40	10 00
W W Hartman	165	41 25
J McCabe	10	2 50

LEWIS CONSOLIDATED.

Names.	Shares.	Amount.
John Hill	50	$12 50
S McBrown	35	8 75
W W Hartman	175	43 75
John A Weaver	400	100 00
W W Hartman	96	24 00
R Smith	33	8 25
R Hutchins	25	6 25

MEMPHIS GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
B B Cathrae	50	$12 50
Joseph W Davidson	25	6 25
Wm Coverdill	20	5 00
Charles Sharp	20 10-12	5 20
Henry Easter	20 10 12	5 20
S McBrown	129 2-12	32 30
Geo W Leet	23⅓	5 83
J M Crump	166⅔	41 67
Frank Snow	166⅔	41 67
J A Weaver	166⅔	41 67
J McBrown	129 2-12	32 30

JOHN J. CRITTENDEN GOLD AND SILVER MINING CO.

Names.	Shares.	Amount.
Frank Snow	85	$21 25
W W Hartman	2	50
John Huchins	10	2 60
C Nixon	25	6 25

GRAFTON GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
S Redfield	5	$1 25
J P Lee	125	31 25
S W Lee	150	37 50
W W Cole	90	22 50
John Nickerson	10	2 50

TEHAMA GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
E A Titus	150	$37 50
M G Lee	140	35 00
G D Frazee	150	37 50

D. B. FRANCIS, Secretary.
17-4t Office, 509 Clay street, San Francisco.

Sonoma County Gold, Silver and Copper Mining Company, Cloverdale District, Sonoma county, California.

Notice.—There are delinquent, upon the following described stock, on account of Assessment levied on the 15th day of January, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amt.
W. S. Pearson		100	$10 00
O. P. Swift	75, 76, 77, 78, 79, 80, 81, 82	208	28 80
E. Swift (4th & 5th asst)	11, 61, 62, 64, 89	221	44 20
H. A. Thomas (4th and 5th asst)		55 8	1 60
H. T. Graves (4th and 5th asst)		9 10	2 00

And in accordance with law, and an order of the Board of Trustees, made on the 14th day of April, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Jerome Rice & Co., on the 16th day of May, 1864, at the hour of 11 o'clock A. M. of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

A. B. CRAVES, Secretary.
17-4t Office, 412 Clay street, San Francisco, Cal.

Whitton Gold and Silver Mining Company, Silver Mountain, Alpine county, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 20th day of April, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable immediately to the Secretary, J. Warren Clark, 430 Montgomery street, San Francisco, (Room No. 5, 3d floor) or to S. A. Bartlett, Treasurer, Silver Mountain.

Any stock upon which said Assessment shall remain unpaid on the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 9th day of June, 1864, to pay the delinquent Assessment, together with the costs of Advertising and expenses of sale. By order of the Board of Trustees.

J. WARREN CLARK, Secretary.
Office, 430 Montgomery street, San Francisco.

Rubicon Gold & Silver Mining Company No. 1.— Location of mine, Keys District, Owens River, Mono county, California.

Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Rubicon Gold and Silver Mining Company No. 1, there will be sold, at Public Auction, to the highest bidder, for cash, in United States gold coin, on the 24th day of May, 1864, at 11 o'clock A. M. of that day, at the office of the Company, No. 7 and 8, third floor, No. 302 Montgomery street, San Francisco, so many shares of the capital stock of the Company standing in the names of the following persons, or shareholders, as will be necessary for the payment of Assessment No. 4, of ten (10) cents per share, duly levied thereon February 27th, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said assessment and accruing charges are previously paid.

Names.	No. Asst.	Certif.	Shares.	Due.
Adam Bland	4	no cer	180	balance, $14 25
Henry Bush	4	no cer	180	18 00
Sarah Cook	4	42	25	balance, 1 56
Sarah Cook	4	no cer	155	balance, 9 68
W. P. Carter	4	no cer	90	9 00
W. G. Davis	4		535	5 50
W. C. Davis	4		646	25 2 50
W. G. Davis	4		647	25 2 50
W. G. Davis	4		648	25 2 50
W. G. Davis	4		649	25 2 50
W. C. Davis	4		650	25 2 56
W. G. Davis	4		653	25 2 50
W. G. Davis	4		738	14 1 40
W. G. Davis	4	no cer	150	15 00
Philo Doud	4		638	10 balance, 62
Philo Doud	4		639	10 balance, 62
Philo Doud	4	no cer	160	balance, 10 00
Wesley Diggings	4	no cer	1800	180 00
A. M. Genung	4	no cer	180	balance, 11 25
Rienzi Hughes	4		98	10 balance, 62
Rienzi Hughes	4		99	10 balance, 62
Rienzi Hughes	4		101	10 balance, 62
Rienzi Hughes	4		104	5 balance, 31
Rienzi Hughes	4		106	5 balance, 31
John Jeffress	4		244	15 balance, 94
John Jeffress	4		274	7 balance, 44
John Jeffress	4		275	7 balance, 44
John Jeffress	4		276	14 balance, 88
John Jeffress	4	no cer	116	balance, 7 25
John Kneedler	4		278	14 balance, 88
John Kneedler	4		279	50 balance, 3 13
John Kneedler	4		382	6 balance, 38
John Kneedler	4	no cer	85	balance, 5 31
M. H. Kimball	4	no cer	90	9 00
A. J. Lovejoy	4		75	25 1 56
A. J. Lovejoy	4		290	132 85
Levi C. Lane	4		21	100 balance, 6 25
Levi C. Lane	4		22	25 balance, 1 56
D. H. Mitchell	4		1	125 balance, 11 56
D. H. Mitchell	4		355	30 balance, 37
D. H. Mitchell	4		487	10 balance, 93
D. H. Mitchell	4		491	14 balance, 1 30
D. H. Mitchell	4		492	10 balance, 93
E. H. Mitchell	4		597	25 balance, 2 31
D. H. Mitchell	4		598	25 balance, 2 31
D. H. Mitchell	4		599	25 balance, 2 31
D. H. Mitchell	4		600	25 balance, 2 31
D. H. Mitchell	4		601	25 balance, 2 31
D. H. Mitchell	4		602	25 balance, 2 31
D. H. Mitchell	4		603	25 balance, 2 31
D. H. Mitchell	4		604	25 balance, 2 31
D. H. Mitchell	4		605	14 balance, 1 30
D. H. Mitchell	4		606	14 balance, 1 30
D. H. Mitchell	4		607	14 balance, 1 30
D. H. Mitchell	4		608	14 balance, 1 30
D. H. Mitchell	4		609	14 balance, 1 50
D. H. Mitchell	4		611	11 balance, 1 02
D. H. Mitchell	4		656	30 balance, 2 78
D. H. Mitchell	4		657	30 balance, 2 78
D. H. Mitchell	4		658	30 balance, 2 78
W. J. Martin	4	no cer	180	18 00
J. W. Myrick	4	no cer	180	18 00
M. M. Miller	4	no cer	180	18 00
Jas. O'Connell	4		289	9 balance, 56
Jas. O'Connell	4		290	56 balance, 3 18
Jas. O'Connell	4		291	50 balance, 3 15
Jas. O'Connell	4		292	25 balance, 1 56
Jas. O'Connell	4		293	25 balance, 1 56
Jas. O'Connell	4		294	21 balance, 1 31
Thos. H. Porter	4		188	12 balance, 75
Thos. H. Porter	4	no cer	126	balance, 7 88
John Reynolds	4	no cer	540	54 00
I. Richards	4		460	90 balance, 4 72
Wm. Smith	4		223	30 balance, 1 88
Wm. Smith	4		249	25 balance, 1 56
Wm Smith	4		230	25 balance, 1 56
Wm. Smith	4		231	25 balance, 1 56
Wm. Smith	4		232	25 balance, 1 50
Wm. Smith	4		233	25 balance, 1 56
Wm Smith	4		234	25 balance, 1 56
O. W. Spencer	4		662	50 5 00
O. W. Spencer	4		674	21 2 10
O. W. Spencer	4	no cer	1054	165 40
F. Shoemaker	4	no cer	90	9 00
Jos. Ware	4		715	14 balance, 88
Jos. Ware	4		714	14 balance, 88
Jos. Ware	4	no cer	190	balance, 11 88

By order of the Board of Trustees.
J. P. VAN HAGEN, Secretary,
Office, No. 302 Montgomery street, No. 7 and 8, 3d floor.
San Francisco, April 22, 1864. 17-4t

Dane Gold and Silver Mining Company, Esmeralda District, Nevada Territory.

Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the above named Company, at a meeting held at the office of the Company, on the 18th day of April, 1864, there will be sold at Public Auction, at the office of said Company, No. 224 Montgomery street, San Francisco, on the 25th day of May, A. D. 1864, at 12 o'clock M., to the highest bidder, for cash, in U. S. gold coin, so many shares of the capital stock of said Company, standing in the names of the following persons, as will be necessary for the payment of Assessment No. 4, of fifty cents per share, duly levied thereon by the Board of Trustees, on the 8th day of March, A. D. 1864, together with cost of advertising and expenses of sale, unless said assessment and charges are sooner paid.

Name.	No. certs.	No. shs.	Amt.
James H. Deering	23	75	$37 50
Jesse Richardson	3	10	5 00
M. L. Citron	25	10	5 00
P. J. Barber	41	10	5 00
Adam Ross	44	16	5 00
Mrs. H. C. Bull	47	5	2 50
W. H. Forbes	53	10	5 00
W. H. Harnden	71	10	5 00
Larkin Smith	74, 75	45	22 50

By order of the Board of Trustees.
17-3t WM. T. ATWOOD, Secretary.

Mining and Scientific Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

VOLUME VIII. SAN FRANCISCO, SATURDAY, APRIL 30, 1864. NUMBER 18.

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Rise and Progress of Free Schools in San Francisco.

BY A SPECIAL CONTRIBUTOR.

Our Fire Department has been justly lauded as being the best in the world. It is, in fact, regarded as a nearly perfect institution; and so it is. But our Free School system constitutes *the* feature of our civil and social state. And though it has been unfolded in our midst, and grown up under our own eyes, in all the necessary common-place of old familiarity, yet to an intelligent and discriminating observer it is full of interest. In very truth, one of the most beautiful histories in the world is that of the Free Schools of San Francisco. To trace this history, is to record a growth of opposite and seemingly unreconcilable characters. Our public schools have come forth with the suddenness of a mushroom almost miraculously matured into the strength and majesty of a gigantic oak. To quote the words of Frank Soulé, in his beautiful and poetic "Annals," "San Francisco has skipped through, or over, its collonial stage, and grown from hamlet to village, from village to town, and from town to city; from the little school house in the forest, to the brick village building with a bell, to the orderly, well arranged grammar school, to the dignified and stately university. It has burst upon the world, a new star in the firmament of glories—the Adam of a new creation. Its history has no centuries of toil; its stages were epbemeral. There was a fierce struggle of intellect with passion—three days of battle and pillage, and a glorious victory of man's high estate. Here, improvements, begun elsewhere, are perfected, and that done rapidly which has been gained slowly. The schools here are not inferior to the world renowned and years-old systems of Pennsylvania and the Eastern States."

And if this was true in 1855, how much more it is true now the records and reports of every year will show. These exhibit a constant and rapid ascent, from the small and insignificant beginning, to the noble altitude and expansion of to-day.

The first American school of any kind was established by a Mr. Marston, who having obtained a small shanty in a block between Broadway and Pacific street, west of Dupont, opened his doors in April, 1847, for the reception of pupils. He gathered a school of twenty or thirty and continued to teach them for nearly a year, the parents paying for the tuition of their children. And though Mr. Marston had few requisites for one of his high calling, he yet demonstrated one thing which had not before been so clearly shown—the possibility and propriety of sustaining a school. Accordingly the so-far enlightened people began to stir themselves, and late in the year of 1847 they built a school house on the south-west corner of Portsmouth Square, fronting on Clay street at its present junction with Brenham Place. Humble as the building was, it yet subserved important purposes. Every enterprise that had no place elsewhere, found "local habitation" in "the schoolhouse." It was a universal public hall for political, religious, military, or benevolent purposes. There wide-mouthed laughter hailed the crude amusements of the times, and meek-eyed piety listened with glowing cheek and heaving heart to many a stirring exhortation. There also sat judge Almond, carving out the knotiest cases in the "Proceedings" of a few minutes, and settling affairs between man and man in quite a patriarchal and primitive manner. At length, after having done all this good service in its day and generation, it was itself indicted, as a cumberer of the ground, sentenced to be removed, and accordingly pulled down. Not a plank, not a splinter remains to tell us of the old school house, unpretending and humble, yet of excellent and many ministries, and "its site is only recognized by the thousand cherished associations, that hover, like spirits, around its unmarked grave."

List of Mining Notices

Advertised in the Mining and Scientific Press.

CORRECTED EVERY ISSUE.

NAMES OF COMPANIES, LOCATION AND ASSESSMENT.	DATE OF SALE, MEETING, OR LEVY, AND PLACE OF BUSINESS.*
Bay City, Reese River	Quarterly Meeting, May 30
Butler, Reese River, 20 cents	Sale May 25
Butte, Reese River, 50 cents	Sale June 4
Bajazette, Lander county, 50 cents	Levied March 30
Billett, Reese River, 12½ cents	Sale May 25
Burgess, Reese River, 25c and $1	Sale May 5
Belle, Reese River, 25c and $1	Sale May 5
Cortez, Cortez district, $2.50	Sale June 20
Crown Point, Reese River, 50 cents	Sale June 15
Cedar, Esmeralda	Sale May 16
Cloverdale, Sonoma county	Sale May 4
Cocheco, Humboldt	Sale May 30
Dane, Esmeralda, 50 cents	Sale May 25
Essex, Reese River, 20 cents	Sale May 25
Enterprise, El Dorado Canon	Caution—Certificates sold
Enterprise, Reese River, 20 cents	Sale May 25
Enterprise Tunnel, Reese River, 25 cents	Sale May 14
Eureka, Calaveras county, 20 cents	Sale May 30
Eureka Mill, Big Creek, five dollars	Sale June 11
Grafton, Reese River, 25 cents	Sale May 25
Golden Rule, Tuolumne county	Sale May 18
George Lect, Reese River, 50 cents	Sale June 15
Gobernadura, Lower California, $1	Sales May 30 and June 11
Hyuck, Reese River, 20c and 30c	Sales May 25 and June 15
Ida. Russ district, $1 and $2	Sale May 14
Index, Copperopolis, 50 cents	Levied March 23—Meeting April 30
John J. Crittenden, R. R., 25 cents	Sale May 28
Keokuk, Contra Costa county	Sale May 25
La Palma, Ures district	Sale May 30
La Marroneua, L. C	Meeting June 8—Sale May 30
Lewis Cons., R. R., 25c and 25c	Sales May 25 and June 15
Lord Byron, Devil's Gate dist., $1	Sale June 4
Laurel Hill, Tuolumne county	Sale May 18
Mountain Mary, Silver Mountain	Meeting May 21
Mountain Mary, Silver Mountain, 25c	Sale June 16
Mount Eden, Gold Hill district	Sale May 31
Memphis, Reese River, 25 cents	Sale May 25
Meteor, Reese River, 20 cents	Sale May 25
Mechanics, Contra Costa county	Sale May 18
Mount Zion, Contra Costa, 25 cents	Sale May 16
Mammoth, San Bernardino, 50 cents	Sale May 28
Nicolaus, Reese River, 10c and 25c	Sales May 25 and June 15
Olive Branch, Reese River, 25c and $1	Sale May 5
Pena, Lower California	Meeting June 8—Sale May 30
Pontiac, Reese River, 20 cents	Sale May 25
Prima Donna, Devil's Gate, 50 cents	Levied April 2
Paul, Reese River, 25 cents and $1	Sale May 5
Pride of Nevada, Reese River	Sale May 18
Pearroe, Lander county, 25 cents	Levied March 30
Queen of Antilles Cons, Lander, 25c	Levied March 30
Rock Rose, Gold Hill, 25 cents	Levied April 5
Revere, Reese River, 25c and $1.25	Levied February 23
Rose Linda M. & M. Co., Amador co., 50c	Sale May 26
Rubicon 1, 2, 3 and 4, Keys district	Sales May 24 and June 10
Storm Cloud, Reese River	Annual Meeting May 30
Scottie	Sale May 31
Scorpion, Virginia district	Sale May 28
Sonoma county, Cloverdale, 10 cents	Sale May 16
Swift, Reese River, 25 cents and $1	Sale May 5
Scottish Chief, Reese River, 10 cents	Sale May 25
Samantha, Reese River, 25 cents	Sale May 25
Saxon, Calaveras county	Sale May 10—Copperopolis
Sierra Consolidated, Sierra county	Sale May 16
Sonoma Ledge, Reese River	Sale May 23
Silver Star, Virginia dist, 25 cents	Sales May 25 and June 8
Tellurium, Amador county, $1	Sale June 4
Tehama, Reese River, 25 cents	Sale May 25
Table Mountain, Calaveras county	Sale June 1
Union Tunneling, Humboldt, 50c and 50c	Santa Clara, N. T.
Umatilla, Reese River	Annual Meeting May 17
Wide West, Calaveras county	Stockholders' Meeting May 31
Whitton, Silver Mountain, 50 cents	Sale June 9

*When the place of business is not mentioned above, its location is at San Francisco.

[Written for the Mining and Scientific Press.]

THE FORMATION OF METALLIC VEINS.

NUMBER I.

BY EDWARD A. MILES.

It is a common axiom concerning veins containing the more valuable metals, that their ruling divinity is chance, and that no one can correctly foretell their eventual failure or success. Believing that among all the linked atoms of the universe there exists nothing which is not operated upon or guided by some untiring, simple law of the Great Creator, plainly and deeply marked out in the material form and composition, and moreover readily revealed to those who clearly study its various associations and complications with other laws, the writer can but look upon the careless theory of chance as the offspring of baffled and superficial investigation. He is confident that, ere long, the earnest application of thought and enquiry will unveil the most abstruse mysteries of such deposits, and regulate their working by scientific rules as perfect as mathematical demonstrations. In order to partially dispel a fatuity of belief that is continually encouraging the most desperate of financial risks and dragging the better class of mines under the gloom of wildcat failures, the writer proposes to show that there are certain laws governing the construction and existence of all metallic veins. In doing so, he will endeavor to develop the chief outlines of a theory of their birth.

The usual idea of the formation of metallic veins conceives the rending of the earth by great volcanic throes of heat, and the immediate filling of the fissures with melted quartz and metals. Some have fancifully shaped the source of the auriferous wealth of our own State into a monster stream or stratum of gold and quartz, underlying the chief mountain belt, and revealing its existence by a few cropping offshoots at the surface. On the evidences of much observation, and the close study of quartz and spar veins, the writer must doubt their intimate connection with subterranean fires and convulsions. Amidst all their different phases of form, they are too regularly moulded for such a mode of creation, and show none of the rude traces of convulsive upheavals; and the degree of heat sufficient to give quartz a molten condition would precedently volatilize all metals in contact with it, whereas the metallic endowment of veins is coequal with the quartz formation. Then, there are truly no more perceptible effects of great heat to be seen in the walls of a vein than at a distance. The usual appearances attributed to fiery action, are generally due to chemical changes, such as the scoriaceous resemblance given by a deposit of iron from solution on the walls. Another theory, first promulgated by the celebrated German geologist, Werner and founded upon close practical observation of the mines of his own country, maintained that all metallic veins occupied crevices or fissures, filled from the surface with dissolved veinstone and metals while reposing beneath the ocean. The regular distribution of metals, the close pinching as well as the widening of veins into chambers at successive depths, and many other phenomena which this theory could not plausibly explain, served to prevent its popular adoption. Undoubtedly Werner's theory approached much nearer to the truth than that assigning igneous origin to veins; but it rather recognized a single form of a primary cause, which is not general in its application to veins as the

ultimate effect; this the writer will hereafter endeavor to show.

The writer conceives that the rock of all metallic veins of distinct gangue, or matrix, whether the same be quartz, barytes, fluor, or calcareous spar, is formed by the gradual process of chemical and mineralogical decomposition and concentration through the agency of electricty, heat, vapors and water.

Original metalliferous collections as found in nature may be divided into two primary classes, the one possessing distinct stony matrices, differing from the enclosing walls in character and composition, and the other constituting those impregnations and aggregated masses and seams of metal distributed through or between mineral beds or dykes. Attention will be chiefly directed to the former, which with regard to form are designated *stockwerk* when forming small interlacing ramifications through bed rock; *segregated* or *crevice* veins when limited in depth, and true fissure veins when possessed of a regular and positive character, indefinite depths and at least moderate length. The peculiarities of the two former are sometimes united in the same vein, and also exist in appendages to the true vein, known as feeders, or spurs.

These veins are found in three different geological formations first; sedimentary, as limestone: second; metamorphic, as clay, talcose and micaceous slate: third; eruptive, as porphyry and granite. The two latter classes almost solely contain true fissure veins. By metamorphic rock, there is usually understood such sedimentary strata as are changed from their specific character by heat or chemical action, though eruptive rocks are, in part, similarly affected.

Alterations thus take place in rocks that not only revolutionize their mechanical, but also their mineralogical structures; limestone being variously metamorphosed into clay slates, talcose slates, etc. The changes wrought by heat are either directly mechanical, such as the tilting and slaty fracture or auxillary to chemical action, which creates effects by decomposition, aggregation and substitution of mineralogical forms. In case of joint decomposition and substitution there is often a double metamorphism; the material of one crystalline system being made to occupy the abandoned cavities of that of another. In this State, and more particularly in Nevada Territory, there exists every degree of this metamorphism, from the first remove of the elementary form to its very antithesis in appearance. The agent of these changes may be a feeble but constant streamlet, or a huge volcanic architype of vaporing and expiring wrath. The principal and greatest number of workable mines in the world are found connected with the metamorphic rocks; and, as a general thing, the particular stage of metamorphism is an index of the character and quality of the veins, particularly where, as often occurs, there are many classifications of these changes in one locality.

Volcanos that scatter their dry and fluid materials far and wide, are few indeed to the multitude of erupted streams or dykes that have cleaved a way to the surface, distant from the wild disorder of these great vent holes of the interior earth. Each geological age has its own system of excreted rocks, characteristic in color, structure and combination, whereby the geologist can approximately determine the era of their formation. Constancy of direction is also often discoverable in the dykes of certain periods, regulated, perhaps, by the then magnetic poles of the earth. They are found in quite a variety of forms, and sometimes pass from one character into that of another. The chief minerals of the erupted rocks are feldspar, constituting the greater share, hornblende, mica and quartz. All of the three first named minerals contain full fifty per cent of silica, considerable alumina, and some oxide of iron, to which there is an addition of either soda or potash in the feldspar, of potash or magnesia in the mica, and of lime and magnesia in the hornblende. Slight quantities of other substances, such as magnesia, fluorine, etc., also enter into the composition of varieties of the same species of rocks. Silica or quartz forms full one-half of the material of erupted rocks, but never independent of an intimate mixture with other elements, and is readily reduced to a fluid state by hot saline or alkaline solutions. Alumini, the oxide of the metal aluminum, as the base of clay, is quite common in or near quartz veins as interal bands or linings of the walls. Potassium, the metalic base of potash, is an important auxilliary of chemists' in obtaining solutions of silica. Sodium is also used to accomplish the same object. The affiliations of lime and magnesia shall be hereafter noticed.

It may be taken as an axiom, too apparent for doubt, that all true veins of quartz are due to the intrusion of the eruptive rocks among earlier formations. They may be either outbursts of trap, granite, or porphyry, or mere overflows of basaltic porphyry somewhat removed from the internal source. In direct contact with the sedimentary and other erupted rocks, it is probable that an upheaval took place, in which all openings produced by the distension of the strata were filled with the same hot fluid material, and that the shrinkage caused by the act of cooling created other fissures that eventually contained quartz or spar veins. If quartz had been simultaneously injected, there would always be found a perceptible shrinkage, graduated by the width of the mass; of this there are no signs. During the slow process of cooling of the erupted rock, it cannot be supposed that the usual operations of nature were suspended; consequently heated water and steam must have come in contact with the dykes, and by the assistance of their alkaline potash and soda, and possible saline presence, produced decomposition of the feldspars and other minerals and the rapid transference of the silica to the discharging fissures. In this manner some of the original secondary fissures may have been entirely filled, but it is evident, considering all their characteristics, that the majority of metallic veins have been of a slow progressive construction. It is most likely that after the first introduction of quartz in an open crystalline or a compact form on the walls of the fissures, and the cooling of the adjacent rock, that there supervened a slower accumulation simultaneous with the infusion of metals.

In case of a closely connected erupted dyke of porphyry, and a calcareous rock acted upon by an aqueous solution, the lime and carbon was dissolved out of the latter; this solution reacting upon the erupted rock, exchanged the lime for silica and magnesia, the latter being transferred to the limestone, while the silica divided between the veins and the limestone. This is not a supposable case, merely, but is plainly evident upon an examination of the rock surrounding all such veins; at least, it can be seen that the quartz and magnesia have been removed from the erupted rock and replaced by an equivalent quantity of lime or clay, while the sedimentary rock is metamorphosed into talcose slate, and the embodiment of the vein does not show a greater amount of quartz than has been removed from the dyke.

Decomposition and secondary deposition are ever going on in the reservoirs and arteries of nature, through the simple action of spring water, without the immediate aid of corrosive chemicals or heat. And these changes are constantly impressing their records on the rocky pages of our universe.

Besides producing veins, the solutions of silica have also in the later geological periods entered rocks of a loose, penetrable structure, such as beds of chalk and sandstone, transforming them into huge compact seliceous masses, often mistakenly designated gigantic quartz veins. It is only by the chemical mode of formation that the spar veins of calcareous composition found in or near limestone beds and the slates derived therefrom can be accounted for. The spars are also largely present in many true fissure veins, either mingled with the quartz or arranged as separate bands of crystalization. The impure forms of elements, elsewhere rarely discoverable, barium and fluor spar, separately only exist in narrow veins and limited to certain mineralogical positions, whence may be deduced their derivation from sources of minute distribution. The primary form of many veinstones appears to be that of crystals, which as the natural and progressive development of elements accrete matter with beautiful symetry and according to fixed laws, when free to do so, but under counteracting influences secure only deformity and their own sepulture. They readily establish their bases on the rough surfaces of other material, with their points turned outward, or from the walls of a lode toward the center, and a foreign substance accidentally introduced secures its own zone of crystallization following the same laws of direction. Small angular fragments of wall rock are sometimes seen interspersed amid the solid quartz of a vein, while large pieces, known in mining parlance as "horses," are not uncommon.

In the Galena veins, of Wales, the miners often find imbedded fossils from the walls. In the writer's possession is a specimen from an argentiferous vein; that part which has been attached to the walls is a compact fluor spar, but its interior face consists of long slender quartz crystals attached to a flake like base. Amid these latter the fluor spar has pushed out three broad, perfect proportioned crystals, of its own composition, the largest of which has succeeded in imbedding some of the quartz crystals in its encroaching sides. No theory of hasty or igneous birth can explain these succeeding constructions.

It is doubtful if more than a parting line or crack is necessary in the embryo state of veins, particularly in certain readily decomposed rocks. There are quartz veins indicating a compact mode of formation by transfusion or direct substitution of silica for some element removed, in which case their walls are in a transition or semi-selicious state, and not always clearly separable from the veinstone.

In other cases, it is evident that one or both walls of the fissure are continually undergoing a slow decomposition, thereby allowing an increased width of veinstone. This will explain the great widths of many of the older veins. Many of the quartz veins of Washoe, in the greenstone porphyry, run down into a compound network of pure quartz, dividing and enclosing portions of the bed rock. By careful selection, specimens of every grade of the separation and alteration can be obtained, from those but little changed and merely parted by small branches of silica, to those showing considerable aggregated quartz, encasing rotten particles of lime like rock.

The bed rocks adjoining veins are often so much decomposed and altered by chemical substitution at water level as to render it difficult to recoguize their original character.

The walls of the granite encased ledges of the Reese River mines show many degrees of decomposition and metamorphism, much of the mica and feldspar being replaced by quartz or lime near the dry surface, and lower down by alumina, while the structural appearance still resembles granite. But in the porphyries of Washoe the corresponding changes are often so great as to give the rock a very distant likeness to the original.

Through the unequal action of the same operation in crystalline rocks, possessing different degrees of hardness, arise those bunches peculiar to veins of that class. It is noticable that in true fissure veins and sometimes, also, in segregated veins, that the descending dip is toward the crest of the mountains. This can be accounted for by supposing the axis of disturbance to have been near the central heart of the range, and that the outbursting forces on dykes sought the angle of least resistance, thereby cutting across the line of stratification. The rocky masses of a mountain may be compared to a series of arches within one another; but one (the apex) line, through equal thicknessses of rock will be perpendicular, all the rest form angles with it. Segregated veins exist between the lines of stratification of the metamorphic rocks, and dip with them. True fissure veins also follow positive lines of direction which are in parallelism with their own system of eruptnd dykes. Segregated veins, resulting from the shallow or imperfect fracture of rocks, and weak eruptive power, are generally found in thick clusters

[To be Continued.]

[Written for the Mining and Scientific Press.]

More of the "Ons Ledge" Theory.

Messrs. Editors:—Knowing that anything relating to the mines in this vicinity will interest a large number of your readers, I will give you a few of the observations made after personal explorations in the tunnels of a large number of the noted mines in this district.

Being one of a number of gentlemen invited by the Superintendent of the North Potosi mine to visit their works and examine their tunnel, I will give you a few items which may prove interesting to your readers. After entering the main tunnel, which runs directly west, and going in a distance of 1,000 feet, we came to where the company first found indications of their present ledge, for which the Savage and North Potosi Co.'s are now contending. Here we found the same encased between two clearly defined walls, and from four to five feet in width. Following this ledge, which runs in a northerly direction, and is gradually widening for a distance of seventy-five feet, we came to drift A; here the ledge rapidly widens. After examining this drift, which has been sunk for the purpose of more minutely defining the ledge, we came back to the main tunnel. We now leave drift A, and go directly north 55 feet, until we come to drift B, where the pay rock widens, and the walls of the ledge are more clearly defined. Following the main ledge, and passing drifts C and D, we came to drift E. Here the workmen of the North Potosi, on running a drift through their east wall, suddenly struck a large body of water; but the west casing of the Potosi ledge kept this body of water from running into the works of the Savage. From drift E to the point where the Savage Company have laid their injunction on the North Potosi, restraining them from further developments, the ledge widens, and is more clearly defined. The west wall crosses the main tunnel 25 feet north of drift E, which leaves us again on the Potosi claim. On the whole 1,200 feet claimed by the North Potosi Company, the ledge and casings are as clearly defined as any in the Territory.

It is contended by scientific gentlemen, that the

west wall of the North Potosi is merely a strata running through from the Savage claim. On our trip we entered all the drifts which the North Potosi has driven for the purpose of developing their claim. In going west through the drifts of the North Potosi, we passed through large bodies of porphyritic rock, intermixed with deposits of silica. In one of the drifts running 350 feet west from the main tunnel of the North Potosi, we came to what is generally known as the red or black ledge, which is better defined than either the ledges of the Savage or North Potosi. From the observations made, it seems clear that there must be more than either one, two, or three ledges; and I think that it only requires time to prove the existence of numerous ledges, all located and running parallel with each other.

There are a limited number of mining companies here who are continually advocating and giving prominence to the one ledge theory. If this principle was recognized, it would be a blow fatal alike to Washoe and the country at large. There are several hundred claims located on different ledges in this district, each one rich in precious metals, and the ore from each presenting an entirely different appearance from that of the other. Now if a company that claims preference on account of the early date of location, can absorb all the other claims because the one-ledge principle is recognized, mines and mining in this region would receive a check from which the country could never recover.

My attention has been particularly attracted to this subject on account of the difficulty existing between the North Potosi and Savage Companies. The Savage Co. claim that the ledge of the North Pososi is but a mere strata of their claim; but if this strata is so clearly traced for the 1,200 feet that we examined, and is not a separate and distinct ledge, then it is one of the largest and best defined spurs that has yet been discovered. Having been furnished with a map before entering the mine, it appeared, on examining the position of the Savage and other claims, that there must be more than one ledge, and the opinions of the gentlemen who accompanied the party corroborated my views. Then, if there is any probability of the Savage and Potosi claims coming in contact, it must be where the west wall of the Potosi has not yet been prospected, on account of the injunction laid by the Savage Co. There is another very strong argument in favor of the Potosi's claim, as it is a well established fact that water will penetrate and make its way through perforated rock and decomposed quartz, it seems strange that this body of water never penetrated any of the shafts or drifts of the Savage; for if there was no wall or barrier between the two claims, the Savage, in their various drifts, ought to have struck this water. Even after the water entered the Potosi tunnel from the east, the west wall kept it from going through on the Savage Co.'s works.

ONSENYEN.

VIRGINIA CITY, N. T., April 25th, 1864.

[Written for the Mining and Scientific Press.]

California Developments.

THE BLUE LEDGE, EL DORADO COUNTY.

MESSRS. EDITORS:—Having within the last few weeks returned from a visit to the above mine, I will endeavor, in as few words as possible, to tell your readers what I saw there. To a large and growing class it will be interesting as it will set forth another proof of the truth of the doctrine, pregnant with the future prosperity and growth of the State, that here, at our doors, are non-developed sources of boundless wealth, inviting the hand of intelligent industry to open them up for the benefit not only of those immediately concerned, but for that of the State, and even the world at large. Starting from Coloma, and crossing the south fork of the American river, seven miles of hilly travel brings you, by way of Spanish Flat, to the Blue Ledge mine. Every step of the way over which you journey teems with evidences of the millions of treasure yielded in the high and palmy, but now nearly dead and gone days of placer mining. The extent of the company's claim on the ledge is a mile and a-half. Along the greater portion of this extent the following work has been done:

Shaft No. 5, sank about 2,000 feet from the northern limit of the claim, is forty-four feet deep, and to water line. A drift has been started at 32 feet depth, from which pay rock has been taken to the amount of 300 or 400 tons. Work is still progressing in this drift, the vein showing a width varying from twelve inches to four feet. The next is shaft No. 4, 60 feet deep, with work temporarily suspended; 30 tons of rock out. In shaft No. 3 the ledge is much broken up. Work is suspended here also; for reasons hereinafter given. Shaft No. 2 is 61 feet to platform and drift, and 71 to water; about 250 tons of rock have been taken from this shaft. The ledge in the drift connected with this shaft averages about two feet wide. Shaft No. 1, nearest the southern limit of the claim, is down 55 feet; drifting is in progress in two directions, developing about a two-foot vein; 150 tons of very good-looking rock have been taken out at this shaft.

A tunnel has been commenced at the southern extremity of the claim, running in upon the vein, and by which the same will be drained to a depth of 800 feet at the northern extremity. It will be used eventually for taking out ore, as it is in contemplation to erect a mill near its mouth. About 80 tons of ore have already been taken from the tunnel, which is in 200 feet. Another tunnel of 220 feet has just struck what is supposed to be the ledge, about midway, at a higher level. This latter tunnel will drain the upper shafts, so that work upon them may be continued. The ledge has been opened up on the surface near its northern extreme, and some 2,000 feet north of shaft No. 5. It is well developed, as continuous, throughout the whole extent of the claim—7,800 feet.

A lot of 2,400 lbs. of selected rock from this mine, crushed at the metallurgical works on Bryant street, in this city, yielded between $800 and $900. Some very fine specimens have been taken out. The rock is of a bluish, gray color, brittle, full of dark seams, which contain a large portion of the gold. Specimens which show no gold to the naked eye, yield a handsome show in the pan after being crushed. The ledge dips east at about 45 degrees. A tract of 800 acres of fine wood land has been secured for the benefit of the company. Any desirable amount of water-power can be obtained convenient to the southern extremity of the mine—enough to run a dozen mills.

For present purposes, a 20-stamp steam mill is now being erected, convenient for the mine. This mill is constructed very much after the same plan as the Real del Monte at Aurora, but is a horizontal one, and is being built by the same parties—the proprietors of the Miners' Foundry, of this city. The mill will be in operation on Monday next. The work is being done under the immediate direction of Mr. R. M. Pease, who also superintended the erection of the Real del Monte. The mill will be furnished with Varney's latest improved pans. Should the anticipations with regard to the yield of the mine be anything like fully realized, another mill of double the capacity of this will be put up. A pleasing consideration, to the stockholders at least, is the fact that when the mill starts, its first proceeds will go to make up dividends, instead of to pay off old debts.

In closing, I would remark that the Blue Ledge is not the only claim in that region of which Coloma is the center. The General Grant, the Plymouth, the Gopher, Indiana, Kelsey, etc., may well be named as fine ledges, and only need capital to develop them. A pleasant journey of only twenty-four hours will take any one from this city to the Blue Ledge. It is to be hoped that such success will attend the present enterprise as will encourage capitalists to come forward and open up other promising claims in this and many other mining districts in the State, which are now forsaken for the greater enchantments which distance alone adds to their merits and surroundings.

A. C. I.

HOW IT LOOKS.—We notice that the appearance of the *Argus*, last Saturday, was greeted with the dignified welcome usually extended by the old leading dailies of this city to such minor enterprises; as though it were unbecoming in them to extend common courtesy to a neighbor. If the *Argus* had been started in Horsetown, or some other distant mining town, it would not have been so coldly laid aside by the "big dailies." As straws show the direction of the wind, such discourtesy unroofs the littleness of men's souls. All right, gentlemen; but "how it looks!"

PARTLY SETTLED.—The case of Hall McAllister *vs.* John G. Shirts was called up before Judge Sawyer, on the 25th inst., when an order directing the plaintiff in the case to pay the Clerk of the Court the moneys and stock now in his hands, was issued, the same not to be paid out by the Clerk until plaintiff is protected from all further attachments. The full particulars respecting this case we gave our readers in our edition of April 16th.

[Written for the Mining and Scientific Press.]

From a Sage Brush Miner.

EDITORS PRESS.—Here I am again, in the sage brush where I belong. I no more shame Montgomery street with my hideous presence, nor break my neck, perchance, in reading the glittering signs on either side. By the way, we have *signs* here. I mean not those that decorate the buildings on Main street in Austin, but those upon the hill-side—those unmistakable signs of labor which proclaim, "It is here!"

In the Reese River district but few claims, compared with the many, have been worked during the Winter, and those have fully proved to their lucky owners that they have not toiled in vain. I could refer to many, but as I have not, since I arrived here, had time to ramble far, I will only mention a few locations on Lauder Hill, just north of town. On visiting the North Star I was somewhat surprised to see the amount of work which had been done. Large piles of rock seemed waiting transportation. Teams were loading for the mill, and car load after car load of the precious metal was coming up from the mine to greet the gentlemanly owners, whose smiling faces told me their most sanguine expectations were being realized. The mine is now down to the depth of 200 feet and from two to four feet in width. The Oregon lode, a few rods farther north, may be considered its twin brother, for in promise and in actual yield it cannot be excelled in the district. To the east and upon the same line or belt of the above claims, is the Dacotah mine, from which large and encouraging results have been obtained; even by working process, over one dollar to the pound of ore has been produced. The incline or shaft is now down to the water line, or about 70 feet. A two foot ledge and steadily increasing in size, with rock resembling the North Star and Oregon, is positive assurance to the lucky men that hold it that their election is sure.

Various other claims are being worked, and considering the little that has been done on them, are exceedingly promising. Such as the Savage, Illinois, Douglas and the Kelly lodes require but to be sunk on a hundred feet or more to prove to the world that the Reese River lodes are not "razor backs," as some, more interested elsewhere, have termed them, but in reality mines that will repay largely those who do not place their expectations on the surface. It is true that hundreds of claims have been located in this and other districts, not worth the paper used in incorporating them; and such being the first thrown into market, it is no wonder that the public should be cautious, yet it does not follow that ours is a groundless pretension. Virginia had her share of *wildcat*, and still lives. Reese River, with her countless veins, has been proved, within the last Winter, to possess the main arteries that are to sustain and build her up in giant strength.

Our town, notwithstanding the lack of capital that is generally felt in new places at this season of the year, presents a lively appearance. The storms which have prevailed here for the last three weeks have retarded, in a measure, the business of many; but now all are actively engaged in preparing for the summer campaigns among the hills. Two or three of our mills are running, yet others, for various causes, are at present idle, but not because of no rock to crush, for there are hundreds of tons waiting at the different claims.

Our townsmen, in their good feeling as a progressive and order loving people, I understand, are soon to have a City Council. Good for Austin! Our neighboring districts have been attracting much attention. Union has many fine ledges; can boast of a plenty of wood and water, and has two flourishing little towns, Union and Ione City. Bunker Hill, some thirty miles south of this place, also claims her share of adventurers, and many claims have been found that bid fair to rank among the best; two town sites are also located there, and the world "goes marching on."

SAGE BRUSH.

AUSTIN, N. T., April 8th, 1864.

MAP OF COSO.—Mr. Warren Holt has laid upon our table a new map of the Coso mining district, which embraces within its limits Owen's lake and an extent of country contained in a radius of about fifteen miles east and south of this lake. The mines of this district are rapidly coming into notice and importance. This map has been drawn by Mr. A. W. Kiddie, of this city, and is neatly and distinctly executed.

WASHOE STOCK MARKET.

Review of the Week Ending April, 25, 1864.

Transactions in the Territorial Stock Boards, as we get them from the local papers, have been lighter than usual since our last report. We are indebted chiefly to the Gold Hill *News* for the following report. If the reporter of the *News* would embrace in his reports the business of the Virginia stocks, as well as those at Gold Hill, we presume the extra amount of labor expended would be duly appreciated by his readers generally as it certainly would by us.

Arrington has sold at from 3@3½; 500 shares of Boh Black have changed hands at $4.

Pony Express has been quite active; 401 shares having changed hands at from $5 to $7¾, closing at the latter figure.

Baltimore American has materially improved; 50 shares having been sold at from $51 to 58, closing at $60, buyer 30.

Boise and Reynolds' has sold at $2; Consolidated Brotherhood, at $1; Crown Point Ravine, at $6½; Colorado, from $5@5½; Belle Vernon, at $4¾; Burning Moscow, at $91; Branch Mint, $10@25.

Clinton & Hubbs, which last week sold at $25@26, took a material stride in public favor. We quote sales of 10 shares at $55.

Four hundred and fifty shares of Champion changed hands during the week at $2@3½, closing at $2.

Thirty shares Don Carlos sold at $5@8; 20 shares Deep Red at $5@7; 20 Excelsior at $15.

Sixty-five shares of Effingham have changed hands at from $1½@4; Champion has sold at from $2@3½; Challenge, at $1½@2½; Colorado, $6@7½.

Front Gold Hill is a new stock in the market. Thirty-five shares sold at $5@7 50, closing at $6.

Frankel has been inactive; $5 are bid for it but without sellers.

Sixty shares Gentry sold at figures from $1 50 to $3 25; 10 shares Globe sold at $14.

Golden Horn advanced during the week from 5½ to $8 50, but stopped on Wednesday at the former figure; one hundred and fifty-five shares changed hands.

Twenty shares Gilmore sold at $2@2 50; thirty Golden Eagle No. 1 at $7.

Grass Valley has sold for $55; fifteen shares of Gray and Cook changed hands at $70@75, closing at the former figure. Grass Valley and Napoleon is quoted at 50c.; Free and Easy at $2; Jenny Lind has weakened a little, and may be quoted at $2½.

Harper and Argus is still under a cloud. It rallied a little during the week, touching $9¼, but subsequently declined to $7, at which figure 50 shares were sold on Monday.

Jewett & Sheppard has rallied somewhat from the closing figures of last week, and may be quoted firm at from $27@30; one hundred and ninety shares have changed hands since our last, at from $24@30.

Seventy-five shares Jim McClellan brought from $1 to $1 25.

Sixty-five Kentucky sold at $4@5, closing at 4½.

Twenty shares Keystone No. 2 sold at $5½, a material decline.

King Solomon still continues to meet with considerable business, but at somewhat fluctuating rates; 272 shares have been sold since our last report, at from $1¾@3½.

Keystone, No. 2, has sold at $5½; La Motte, at $4½@5½; Minntonomah, at $10; La Mina del Alto at $1½.

Mary Ann has found a buyer at $115; legal tender at $16.

New Oregon declined early in the week to $8 50, but rallied again to $18 50, and closed at $14. Sales of 168 shares are noted at intermediate figures.

Napoloon, which last week reached $18 but subsequently dropped to $11, still farther declined to 8½, but subsequently rallied a little and closed at $12.

Naragansett has sold at $1½; Occidental con. at $2½.

The Overto still further advanced after our last quotations, and reached $20 on Thursday of last week, but subsequently declined to $15.

Pride of America lost its grip, twenty shares selling on Thursday at $6, and fifteen on Saturday at $6¼.

Thirty shares Palo Alto sold at $2 75@3 50; ten Pontiac at $1 50; sixty Richelieu at $5@6; eight Rock Island at $35@39.

Silver Vale advanced to $7 50, but declined to $4. Sixty-five shares sold at those and intermediate figures.

One hundred and twenty-five San Francisco at $3 @8, closing at $6½. Five Scott Consolidated at $1 50. Twenty Winegardner at $4@4 50. Thirty White and Sanders at $4. Yolo at $11@15.

Seneca—ten shares sold on Monday at $23, and on Tuesday ten at $28, and ten at $27½.

Santa Fe is quoted at $9½@10; Sunrise at $3.

San Francisco Stock and Exchange Board.—Prices Bid and Asked.

WASHOE STOCKS.	FEET.	SHARES.	VAL.	Saturday. BID.	Saturday. ASKED.	Monday. BID.	Monday. ASKED.	Tuesday. BID.	Tuesday. ASKED.	Wednesday. BID.	Wednesday. ASKED.	Thursday. BID.	Thursday. ASKED.	Friday. BID.	Friday. ASKED.
Ophir	1,400	16,800	300	1,425	1,480	1,400	1,430	—	1,425	1,400	1,337	1,100	1,300	1,150	1,300
Gould & Curry	1,200	4,800	500	4,490	4,490	—	4,550	4,450	4,500	4,350	4,400	4,400	4,480	4,250	4,500
Savage	800	800	2,000	—	2,600	2,000	2,600	—	—	—	2,500	2,250	2,275	—	—
Chollar	1,400	5,600	800	380	—	450	465	480	500	485	500	455	460	420	435
Potosi	1,400	2,800	500	—	900	810	850	—	900	650	800	790	825	650	825
Hale & Norcross	400	800	500	—	—	—	—	—	—	—	650	—	—	—	—
Sierra Nevada	3,000	3,000	500	65	70	—	74	—	70	—	85	—	—	40	70
Hancy	2,000	800	80	110	120	110	115	111	114	118	120	110	115	100	107
Burning Moscow	4,100	4,100	500	104	103	103	105	104	105½	103	105	97	98	98½	100
North Potosi	2,000	2,000	250	63	64	66½	68	71	72½	91	92¼	97	98	65	66
Charles Cany	1,800	1,800	30	—	15	—	10	—	—	—	—	—	—	—	10
Iowa	1,200	1,200	1,000	—	30	—	22	—	—	—	—	—	—	—	—
El Dorado	1,600	1,600	500	—	—	—	—	—	—	20	—	—	45	—	40
Norton	1,600	1,600	50	—	—	—	—	—	—	—	—	—	4	—	—
Burnside	2,800	2,800	500	—	—	11	12	11	12	8	12	10¾	11¼	—	11½
Adriatic	2,700	2,700	100	—	11¼	—	10	—	—	—	—	—	—	—	10
Pride of the West	1,400	1,400	100	70	75	55	70	65	85	70	75	78	82½	75	80
Imperial	184	4,000	500	175	179	172½	175	165	172½	165	174	160	170	165	170
Crown Point	600	1,200	100	—	—	—	—	—	1,000	—	—	—	—	—	1,000
Manhattan	—	—	—	—	—	—	8	—	—	—	—	—	—	—	8
Seneca	—	—	—	—	17	—	21	24	25	20	27½	25	30	24	25
Mt. Davidson Am'l.	1,600	1,000	200	—	—	—	—	1	3	1	2	1¾	2	—	3
Caledonia Tunnel	—	—	—	23	25	—	—	—	—	—	28	20	27	20	25
Bajazet & G. Era	4,000	4,000	300	—	45	32½	45	34	39	28	38	30	34	22½	40
Cedar Hill tunnel	—	1,000	100	—	—	—	—	—	—	—	—	—	—	—	—
Gold Hill Qu'tz Mill	—	—	—	—	—	—	300	—	—	—	—	—	—	—	300
ESMERALDA.															
Wide West	1,400	1,400	2,600	25	30	25	27	25	28	25	26	23	25	22	24
Antelope	1,200	1,200	500	162½	175	100	167	—	—	160	165	150	175	—	170
Esmeralda	1,600	1,600	1,000	—	—	—	15	—	—	—	—	—	12	—	—
Real del Monte	4,400	4,400	400	72¼	73½	74	77	72¾	74	71	73	69	70	67	68
Utah	1,600	1,600	250	—	—	25	30	27	50	30	40	30	37¼	30	34
Silver Hill	3,000	3,000	500	6	9	5	—	6	7½	6	7½	6¼	8	5	7
Nevada	600	1,200	250	—	—	—	—	—	—	—	—	—	—	—	—
Falls of Clyde	5,000	6,000	100	—	—	—	—	—	—	—	—	—	—	—	—
Bamboo	600	600	500	—	—	—	30	—	—	—	—	—	—	—	—
Crockett	—	—	—	6	—	—	—	—	—	—	10	7	11	7	9
Federal Hope	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Jenny Lind	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
COSO.															
Josephine	9,600	4,800	2,500	2	6	—	—	2	—	2	—	3	4	3	—
Willow Springs	2,700	2,700	100	—	—	—	—	—	—	—	—	—	—	—	—
Coso	2,600	3,600	600	2¼	—	—	—	—	—	3	—	4	—	5	6
COPPER.															
Napoleon	2,700	2,700	600	72¾	85	80	85	80	85	—	—	—	—	—	85
Josephine	—	—	—	—	9	—	—	—	6	—	5	3	—	3½	—
CALIFORNIA.															
Laurel Hill	—	—	—	2	—	1¼	2¼	1	2	1¼	¾	—	1½	—	1¼
Rhodes Diggings	—	—	—	5	25	—	—	—	—	—	—	—	—	6	—
Fellowes	2,500	2,500	100	—	—	—	—	—	—	—	—	—	—	—	—
Maxwell	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rock River	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60
Eureka	—	—	—	—	32½	—	35	—	—	—	40	—	—	—	—
HUMBOLDT STOCKS.															
De Soto	1,980	1,980	100	30	45	30	35	31	33	30	33	30	—	30	35
Great Basin	—	—	—	—	—	—	—	—	—	—	6	—	1½	—	—

A Proposed Mining Tax.

The telegraph on Thursday announced an amendment to the Tax Bill, now under discussion in the House of Representatives at Washington, of 5 per cent. on the gross yield of all mines of gold, silver, and quicksilver. The indications are that the hill will pass the House. What its fate may be in the Senate is more uncertain. The exertions of the California delegation appear to have been of no avail in their efforts to save the country from this act of legislative folly. California makes no objection to being taxed equally, or even more heavily than any other State in the Union. Our only complaint is that the operation of this tax, even though it should be paid with the utmost promptness and willingness, will indirectly work a far greater pecuniary detriment to the Government than can possibly be remedied by the collected tax. If our Congressmen from the Atlantic States knew as much about the California mines as nine-tenths of the ordinary laborers in those mines, they would never push to a consummation the suicidal act which has been proposed. A tax of 5 per cent. on the gross yield of the mines will keep in the earth millions of treasure that would otherwise be put in circulation, and aid the Government in keeping up the credit of its immense and constantly increasing paper issues. More than half the bullion that is now coming from Washoe costs over 100 cents on the dollar to obtain it. To be sure it will not be so when the mines there are fully opened; but such is the case at present, and will continue to be for some time to come. Government might as well tax the miner 5 per cent. upon all the money he expends in running tunnels, sinking shafts, etc.—in fact, it might as well do directly what it is really indirectly doing—shut up entirely a large proportion of the non-dividend-paying mines in the State, and put an effectual stop to any further developments. If the tax is levied it will be paid; but the first act of a subsequent Congress, after witnessing its effects, will be to repeal it.

Park.

An extensive park has been laid out in American City, Nevada Territory.

City Stock Reports.

Sales of Mining Shares

For the week previous to Saturday, April 23, 1864.

By the San Francisco Stock and Exchange Board, Pacific Board of Brokers, Stock Exchange and the City Stock Exchange Board of Brokers

NAMES OF COMPANIES.	SHS. SOLD.	LOWEST.	HIGHEST.	CLOSING.	AM'T SOLD.
Ophir	132	1425	1450	1450	15950
Nevada, J. G.	286	74	90	87	69989
Buckeye	162	12	16	16	1642
Bullion	90	68	71	71	2080
Baltic	55	120	140	120	4925
Shoshones	240	2	3	2	599
Blue Ledge	190	10	19	16	3731
Kohler Brothers	8	24	24	24	192
Uncle Sam	47	850	950	850	27420
Central American	75	12	15	12	611
Lady Bryan	2085	44	51	44	85417
Baltimore American	215	51	58	51	13070
Wide West	52	24	27	24	1097
North American	1463	151	200	151	126645
Mary Ann	25	95	110	100	1510
North Potosi	1367	61	42	72	115070
Real del Monte	585	67	83	68	25694
Melones	15	28	38	38	579
Chollar	51	480	500	490	42425
Burning Moscow	483	100	110	109	48451
Sweet Vengeance	40	20	20	20	800
Crockett	10	10	10	10	100
Utah	40	25	39	38	410
Lancaster	30	10	15	12	400
Imperial	15	162	170	170	1625
Caledonia Tunnel	105	22	23	22	2122
Union, Russ	50	1	1	1	50
Seneca	261	20	38	31	6419
Harmon	180	28	30	28	5650
Sacramento & Meredith	50	50	50	50	1125
Green	143	6	8	5	1240
Pride of the West	70	75	80	75	12740
Good Return	105	1	3	3	707
De Soto	20	35	36	36	710
North Star	12	50	52	52	800
Crown Point Ravine	10	7	7	7	70
Burnside	122	11	13	11	1464
Coso	79	3	5	5	067
Santa Rosa	328	0	8	7	1200
Daney	836	97	120	115	14154
Crockett Consolidated	78	7	8	7	1945
Josephine, Coso	95	3	4	3	345
Knickerbocker	10	36	36	36	360
Independent	30	55	56	55	2775
Mina Preta	2	75	75	75	150
Index, (cop)	60	9	0	3	540
Laurel Hill	15	1	1	1	15
Good Return	195	1	3	3	707
Pine Leaf	10	3	3	3	30
Johnson	10	19	19	19	190
Mountain No 1	10	19	19	19	190
Golconda	10	45	45	45	450
Chile Bar	20	12	12	12	240
Mount Hope	70	1	1	1	70
San Antonia	25	1	1		25
Ida	25	1	1	1	80
Gov Downey	165	1	3	2	447
Maggie Green	5	4	4	4	20
Gould & Curry	8	4490	4550	4490	0100
Codocia	18	1	1	1	18
Argenti	20	1	1	1	20
Eclipse	50	13	13	13	650
Cuba	25	4	4	4	100
North Grass Valley	10	10	10	10	100
Antelope	4	165	165	165	660
Satozi	4	850	850	850	3400
Fair Haven	25	3	3	3	150
Baltic, H	25	4	4	4	107
Total am't of sales for the week					820,520

Mining Gossip.

EDITED BY.....FRANK WARDDELL.
FOR THE MINING AND SCIENTIFIC PRESS.

Attention, Secretaries and Trustees!—We desire to call your particular attention to a very important fact, which we know you will say, after investigation, is to your interest and to the interests, financially speaking, of the different mining companies you represent. It is respecting the difference between the terms of advertising in the Mining and Scientific Press and those charged by papers which take no special interest in mining. The fact is now becoming apparent to the Trustees and Secretaries of mining companies, as our extended columns, filled with their advertisements, go to prove that they are heartily tired of the enormous rates charged by the papers in question, and have come to the wise conclusion that the Mining and Scientific Press is the only legitimate weekly medium through which to do their advertising. They further know that we are acknowledged by the mining community as the leading mining paper upon this coast. We are now established upon a sound and reliable basis, and should thus receive all the aid that such a paper deserves, especially from Trustees and Secretaries.

Skedaddled.—A prominent broker, so it is said, who has for a long time been connected with one of the principal stock boards of this city, took his departure rather suddenly, and very unexpectedly to many, on the steamer St. Louis, which left this port on the 23d inst. It seems, however, that some of his friends had heard of his intended trip, and as they entertained towards him much brotherly affection, (especially as far as unpaid bills and borrowed money was concerned), caused dilligent search to be made prior to the steamer's departure; but, notwithstanding the combined shrewdness of deputy sheriffs and detectives, he managed to make good his escape, thus leaving many brokers and others to mourn his unceremonious departure.

A Dialogue.—Scene on Montgomery street, near Merchant. Conversation between a spirited, go-ahead, never-despoading broker, and a cross old gentleman, who was a heavy purchaser in Wide West, Chollar, and similar claims, and lost largely.

Broker, with a smile on his face, approaching the old gent, "How are you, Mr. ——? I have one of the nicest little chances for you to make money, in the way of a mine, and if you like I will take pleasure in *letting you in*."

Old gent raises his specs, takes a good survey of the broker, and says: "Go to the d—l, sir! There has been enough brokers already who have taken great pleasure in *letting me in!*"

Broker makes his exit, with a flea in his ear.

Santa Rosa M. Co., Virginia.—The following is an extract from a letter received by us, dated April 25th. We publish the same, thinking it may prove interesting to holders of Santa Rosa stock:—"The shaft in this mine is 105 feet deep, and they hope to attain a depth of 200 feet before meeting with water in such quantities as to necessitate the erection of machinery; and ere this 200 feet is attained, they expect to develop a good paying ledge. They are sinking on the upper wall of the ledge, and as they progress the vein and walls become better defined, and the vein rock more favorable in character, and looks more like the ore found in the Comstock lead."

Off Again.—Mr. John S. Hening, Superintendent of the North American mine, in company with Mr. Wm. M. Lent, took their departure for Virginia City on the 26th inst., they having chartered a private conveyance to take them over; and, from personal observation, we can say that they took along with them a good supply of the "essential of life," they seeming determined to have a "good old time," whether on business or otherwise. This style of traveling is what we admire; but which, alas! we poor editors seldom experience.

Something Like.—The Sanitary Ball at Gold Hill, N. T., netted $2,250.

Seneca.—On the 25th inst. they struck good ore in this lead, which, upon being telegraphed to this city, sent the stock up to $22 per share.

A restraining order was received, on Saturday last, by the Mary Ann Company, at Virginia City, to prevent the Uncle Sam from interfering with the work of the Mary Ann Company.

The Union Mining Company, Russ District, contemplate erecting a new sixty-stamp mill, and have already had the survey for their ditch made, and ascertained that they can obtain, within a short distance, twenty feet fall and any quantity of water.

Kit Carson, Gold Hill.—We learn from recent accounts received from this mine that they continue hard at work, and that everything in connection with the mine looks exceedingly favorable; also, large quantities of the stock has changed hands, at figures ranging from $12 to $18 per share.

Bound Off.—A large party of gentlemen have left this city within the past few days, bound for Owens river. Among them were our much respected friends, Messrs. Lindsay, Buchanan, and Stearns. We wish them much success, and trust that they may all soon return home rich.

Fine One.—The Empire Mining Company, situated on Last Chance Hill, Esmeralda, is turning out a splendid description of ore. The shaft on the mine is also being rapidly sunk deeper, and the proprietors feel in the best of spirits regarding their prospects.

San Carlos Mill.—This mill is being rapidly erected, and when completed will be an exceedingly fine one. They intend to build their house of brick, and hope to have the mill under full headway in the course of two months.

Salt Mines.—Some thirty miles from San Carlos, Owens River, on the east side of the Noyo Range, a Salt Mine has been discovered which covers an area of one and a half miles in length by three quarters wide. The salt is in perfect crystallized form The locality in which it is found is called Saline Valley.

Office Removed.—The Bodie Bluff Consolidated Mining Company, on the 26th instant, filed its certificate of removal of business office from Aurora, N. T., to this city.

Silver Mountain Region.—Matters and things in that section have assumed a very lively appearance lately. Several fine buildings have been recently erected and many more are now in the course of construction. Mining interests are looked after with great vigor.

Another Mining Accident.—Mr. John Littlefield of Calaveras county, was lately killed by the caving of a bank, while working his claim on Independence Flat. The deceased was 35 years of age, and for many years an old and much respected resident of that place.

"Up the Flume."—We learn that a private telegraphic dispatch has been received by a party in this city during the past week, announcing the failure of a gentleman who was, at one time, very extensively engaged here in a wholesale and retail business. The gentleman referred to, retired about three years ago, after having accumulated a large fortune, since which time he has been living in New York city, in princely style, driving the fastest stock, etc., and dealing heavily in the buying and selling of gold; being considered one of the prominent gold operators among the fraternity of Wall street. We presume the suspension will be only a temporary one, as it is quite a common occurence for such a class of speculators in New York, to stop payment and resume it again in the course of a week.

Consolidated Lat ast.—Much excitement has taken place in our stock market during the past few weeks among the different friends and advocates of the companies herein mentioned; more especially was the excitement greater on the 25th inst., when it was publicly announced upon the street, that the long contemplated consolidation had at last actually taken place between the Uncle Sam, North American, and Baltic mining companies; they had agreed upon some terms and and all matters appertaining thereto were satisfactorily and amicably settled. These companies, it appears, all claimed the same ground on American Flat, Gold Hill, N. T., and for a length of time have been in litigation, and the expenses attending, we understand, have been enormous. The result of this settlement, however, leaves a company called the Sweezy, who set up a claim as being the first discoverers and workers of the Uncle Sam ledge, out of the arrangement. The Uncle Sam company must make some arrangement with them and include them in the consolidation or compromise, or else the litigation will continue. This case is now pending before Judge North, of Nevada Territory, and will be called up on the 20th of May. A morning cotemporary published in this city, came out (after the result of the consolidation was made known) with a long, flourishing article, and in connection with the details regarding the settlement of the companies endeavors to enlighten the community, with something about the bulling and bearing system, as managed by some interested parties in North American stock, who tried their utmost to depress the same on the market, with the idea of buying it in at reduced rates, and that their plans had been frustrated etc., etc. Now we make some pretention of knowing, generally, what is going on among the bulls, and bears; but we must confess that we have been unable to glean any reliable information respecting this affair, as stated by the local of the daily alluded to. It may be he has the "inside track" on this matter, and we have not; but we hardly think that such is the case.

North American.—There was a rumor in circulation on the street yesterday, to the effect that a larger number of shares than constitutes the Stock of the North American Mining Company, were advertised for sale for non-payment of assessments. After taking the trouble to add up the column of shares, as advertised, we found that the total number advertised is 4,035; there are 4,100 shares in all. It is fair to presume that the list is correct, as holders of shares are very adverse to the payment of assessments until compelled by due process of law. It may possibly be that there has been some carelessness on the part of the officers of the Company, but we are quite sure that if any over issue of shares has been made, the amount is too trifling to effect the stock. Under the late compromise this Company undoubtedly stands on a better footing than ever.

New Iron Works.—The Pacific Iron Works filed their articles of incorporation on the 25th inst. The purpose of the same is to carry on the iron foundry and machine business. The capital stock is $200,000, of one thousand shares at $200 each. The Board of Trustees is composed of W. G. Hoslep and John Stone, (of Tuolumne county), J. M. Wooster, B. D. T. Clough and W. Macdonald, (of San Francisco). The principal place of business of the association will be in this city.

Real Del Monte.—The meeting of the Real Del Monte Company for the election of officers, will be held on the evening of the 2nd of May, and it is conjectured that one of the prime causes for the late depression of the stock has been the "bearing" process adopted by certain parties to secure a controling interest in the way of votes.

Nova Scotia is going wild over the discovery of gold within her borders, and thinks she will rival California and Australia.

Mechanical Department.

Modern Typographic Improvements—The Type-Revolving Principle—"Russell's Automatic Printing Machine."

For a period of more than three hundred years after the discovery of the great principle of obtaining impressions on paper by means of moveable types, no considerable advancement was made in the art of printing. The rude wooden press, worked by hand, and scarcely capable of working 250 impressions per hour, was considered to answer all the requirements of the period antecedent to the present era of civilized progress and material advancement. Few men of learning and attainments thought it consistent with the dignity of scientific investigation to turn their attention to the development of an art which was destined more than any or all others to stimulate the advancement of civilization and aid the enlightenment of mankind. If Dr. Franklin, for instance, had, in connection with his other scientific labors, devoted his great talents toward the improvement of his own profession, he would have better earned his title as a benefactor of mankind. Far be it from our purpose to undervalue the efforts of those who labor in the fields of abstruse science and philosophical inquiry; but in the mechanical discoveries and labor-saving improvements of modern times is to be found the true secret of our great material prosperity. To knowledge and the mechanical arts, more than to any political dogma or religious creed, do civilized nations owe their present advancement.

About the commencement of the present century, the increase of population and the gradual dissemination of intelligence among the heretofore ignorant masses, created such a demand for facilities of rapid printing, that the clumsy presses of the time were found inadequate to turn off the requisite circulation of certain leading English journals. To meet the demand, the dawning inventive genius of the age was brought into requisition, and the result was the invention of several kinds of machine presses, inadequately answering, it is true, the purpose designed, but still possessing great advantages over the old process. Additional improvements were made from time to time, until presses were produced that would print from two to four thousand copies per hour upon one side of the sheet.

Nor was American talent idle the while. About thirty years ago, Seth Adams of Boston patented his bed-and-platen hook-printing machine, the best for doing *good work* that has ever been devised, although not so fast as some others. Messrs. R. Hoe & Co. also constructed an improved iron hand-press—this style of machines being still indispensable to almost all printing offices for small editions, and a variety of work unsuited to power-presses. To American genius the world is also indebted for the best styles of small jobbing presses, many of which are models of neatness and efficiency.

The invention of the "composition roller," which is indispensable to all machine presses, has erroneously been claimed by our countrymen. It was, however, the work of a German in England, about the year 1815, who applied it to a new style of press he was inventing. The press failed, but the roller was soon universally adopted.

The largely increasing circulation of the leading English journal, the London *Times*, stimulated still further improvements, and Messrs. Applegath & Cowper invented their mammoth eight-cylinder press. This marvelous machine was constructed on the rotary principle, and may be briefly described as follows:

A cylinder, some four feet in diameter, set up vertically, upon the periphery of which, and forming about one-fourth of its circumference, is placed the form of types, properly secured, which has been "made up" in such a manner that, although each column is flat, yet the necessary curve is given to the "face" of the whole "form," by making the rules which divide the columns thicker at the "face" than at the bottom. Placed at intervals around this central drum are eight smaller cylinders, to and around which the sheets of paper to be printed are conveyed and carried off by a system of tapes. At each revolution of the main drum the "form" impresses itself in turn upon the paper on each of the smaller cylinders, and of course eight sheets are printed. The "form" receives its supply of ink from rollers, which are stationed between each of the impressive cylinders. Two persons were required at each small cylinder to "feed" and "lay off" the sheets.

This principle was subsequently improved upon by Messrs. Hoe & Co., who placed the large drum horizontally instead of vertically, and applied a series of automatic "flyers," thus dispensing with the labor of persons to "lay off" the sheets. This firm also manufactures presses of from four to ten cylinders, the same principles of construction being applicable to all. The speed of this class of machines is only limited by the ability of the "feeders" to supply the sheets, which is at the rate of about 2,000 per hour to each cylinder. A quite inferior class of work is done upon these presses, as any one is aware who has perused the New York dailies; but they have been necessarily adopted by all those journals whose circulation is so large that they are obliged to sacrifice every other consideration to the paramount one of placing their paper before its readers at the earliest possible moment after their columns are closed.

In contemplating one of these enormous and complicated pieces of mechanism, when engaged in its mighty mission of spreading information among the millions, the beholder becomes impressed with the conviction that human ingenuity has here achieved one of its grandest triumphs, and that mechanical art has no field before it for further improvement in this direction.

But, notwithstanding this apparent perfection, it has been reserved to one of our California inventors to devise a machine which supercedes, in many essential particulars, and as far surpasses those we have just described as they exceed the clumsy contrivances of a by-gone age. We allude to the "AUTOMATIC PRINTING MACHINE," the invention of Mr. Geo. T. Russell, a practical printer, well known in this city and State, of which he has been for many years a resident.

We have carefully examined the models, drawings, and specifications of this invention, and we feel much confidence in predicting for it a decided superiority over any other style of press, provided a due amount of skill and perseverance is exhibited in the manufacture of the machine.

The principle is similar, in some respects, to that of the type-rotating presses, already alluded to; but, as the name indicates, the labor of persons to supply sheets is entirely dispensed with. The paper is printed in a continuous strip, and is carried from one impression cylinder to another in such a manner—i. e. by a geometrical combination of proportions—that it receives the impression of the revolving form at the proper intervals, leaving the requisite white margin between each interval. After the paper is printed on both sides it is cut and piled in regular heaps by ingenious and simple machinery.

The invention also includes a method of moistening the paper before printing, without manual labor.

The inventor claims for this machine the following advantages:

1. *Economy in paper*—this article costing somewhat less when furnished by the mills uncut, and the wastage inevitable in the "feeding" process is entirely avoided.

2. *Economy in manufacture*—A press thus constructed costing only about one-third as much as one of the same number of cylinders of the styles now in use.

3. *Economy of labor.*—The attention of only one person is required from time to time to see that the "color" and "register" run right; all else is automatic.

4. *Increased speed.*—Every motion about the press being rotary, and as it carries along its own paper, instead of depending upon the slow manipulation of "feeders," it is difficult to imagine a limit to the velocity of which it is capable. Judging, however, from the workings of the model, it would seem that the eight-cylinder press may probably be driven at the rate of forty or fifty thousand impressions per hour.

5. *Better work.*—On all fast presses now in use, thin ink is obliged to be used, in order to prevent the paper from remaining on the "form" after being printed, and fouling in the ink rollers, which makes a vexatious delay. In this machine, however, the paper must necessarily come off the "form," no matter how fine or "stiff" a quality of ink is used. A perfect "register is easily obtained, and, if required, the paper can be "dry-pressed" by passing it between steam-heated rollers before cutting, which would restore the gloss, which is much impaired by the process of wetting and printing.

Economy of space and noiselessness are among the minor advantages claimed.

We are not at present at liberty to more accurately describe its workings, but hope soon to lay before our readers a properly illustrated description of this wonderful *California Invention*.

The talented inventor, having taken the preliminary steps to secure patents in the United States and European countries, through our PATENT AGENCY, went East, some weeks since, for the purpose of bringing his improvement to the notice of press manufacturers and newspaper publishers. We commend him to the favorable consideration of all with whom he may have dealings, and predict for him the success his invention merits.

[Written for the Mining and Scientific Press.]

Practical Mining—Position of Lodes—Another Answer to Our Mining Problem.

MESSRS. EDITORS:—I have awaited with impatience the solution of the mining problem which you published on the 5th ult., hoping to gain something new. The response of "J. P." does not satisfy me. Either he is wrong, or I do not understand him. The law governing the "throw" of a lode intersected by a dike or cross vein, is correctly stated; but, in my judgment, the deductions therefrom are, in part, far from right. I hope I state my views with diffidence, as I have had, comparatively, but small experience in "mining engineering," although I may say I have been a miner twelve years.

To the point: Suppose you were driving on the lode from E.N.E. to W.S.W., your progress is stopped by the cross vein, the obtuse angle, formed with the plane of the level by the cross vein, is to the left; as the portion of the lode thrown out is to be discovered on the side of the obtuse angle, the "throw" is a left-handed and not a right-handed one, as "J. P." states. If you reverse the course, say drive E.N.E., the result is the same—the "throw" is to the left.

"J. P." says he would drift S.E. I infer that he would thus drift before he drives through the cross vein, since he says (I quote from memory—I have to lend my PRESS) that, perhaps for *safety*, he would first drive through the cross vein. Should he drive S.E. before he drives across, he would never reach the lode. We will suppose the level to have cut the cross vein, and continued on in the direction W.S.W. a certain distance; then in such cases driving S.E. would strike the "thrown" part of the lode; but that would be the longer way, as the two sides of a triangle are greater than the other.

The plan I would suggest is this: Upon driving through the cross vein, I would hug the vein on its west wall, and drive in the direction of its strike, S. 15° W. The distance to drive would be determined by the obtuseness of the angle.

I congratulate you upon the success of the PRESS. To those who are engaged in copper mining, the letters of your traveling correspondent are above all price. They have inspired with hope hearts hitherto heavy with assessments, and given a new impetus to a pursuit destined to rejuvenate the mining interests of our State. I hope he will pay our county a visit.

GRASS VALLEY, Nevada Co., April 20, '64. M.

THE ARGUS, a new weekly, published by John McComb, made its appearance last Saturday. It is peculiarly "English" in style, about one-half the size of the PRESS, and looks creditable. The editor thinks there is a wide field for another mining journal in this community, and so it would seem; but, alas, experience teaches that mining newspapers, like mining lectures—no matter how worthy or eloquent—are only appreciated by reflective minds, and not apt to be over-burthened with genuine patronage. However, we wish our neighbor good fortune and a happier experience than we can possibly anticipate. The *Argus* is finely printed, at the office of Wm. P. Harrison & Co.

BROWN'S VALLEY, Yuba county, still continues to attract considerable attention. Its mines and mills continue to give out an abundance of the precious metals. We note the fact with all the more pleasure for its being so near to the commercial center of the Pacific coast—about twelve miles from Marysville.

Patent Department.

A Quartz Mill.—We have seen, this week, in actual work, a new crusher which was fed with rock that would pass through a half-inch mesh, and turning out fine work that will compare with the tailings of ordinary pans, at the rate of half a ton per hour. It is a combination of the vertical crushing rollers of the inventor, Mr. Scovill, with a Chili mill, which grinds against the surface of the trough as well as on its bottom; it has also a further trough for amalgamating the gold. It requires from 6 to 8 horse power, and works with remarkable steadiness. It stands on a space 8 feet square. The weight is about 7 tons, but the whole machine may be set up by three men in as many days, as there is no necessity for any expense in foundations. Its price is $2,500. It is now on exhibition at Steen's Novelty Iron Works, on Fremont street.

A New Clock, with but one wheel, and a simple attachment of levers and springs, has recently been constructed by Mr. Otto Weidero, a watchmaker of this city, which, it is claimed, is the most perfect timepiece yet invented. Mr. W. thinks it will work an entire change in the manufacture of timepieces. A model will soon be in operation at his window, on Montgomery street. Most of our readers will recollect a similar invention made by this gentleman two or three months since. That was also constructed on a novel principle, and worked much after the manner of a low-pressure steam-engine. Mr. Weidero is one of the most ingenious workers in his delicate line of business, on the Pacific coast.

Breathing Apparatus.—At a late meeting of the French Academy of Sciences, M. Galibert described an apparatus for securing free and complete breathing to persons obliged to stay some time under water, or to penetrate into places filled with deleterious gases or smoke. This apparatus consists of a piece of wood, having the form and dimensions of the human mouth when open. To this piece of wood two India-rubber tubes are fixed, of any length, according to the exigencies of the case. The man engaged in the operation is further provided with a nose-pincher, or instrument for compressing the nostrils, so as to prevent the introduction of deleterious gas or of water, as the case may be. The operator puts the piece of wood into his mouth, and puts on the nose-pinchers; he stops one of the orifices with his tongue and inhales pure air with the other; after which he shifts his tongue to the latter orifice and exhales his breath through the other. He continues thus regularly shifting his tongue from one orifice to the other, in the order of the inspirations and the expirations; but even a mistake would be of little consequence. A man easily learns the use of the apparatus by a few minutes exercise. This contrivance has the merit of requiring no preparation, thus affording a speedy means of giving assistance in the case of fires or of suffocation by water or gases. It might also be used in medicine for the complete immersion of patients in a bath, which might sometimes be advisable.

Great Improvement in Nail Making.—M. Gustafson, a Swedish inventor, has contrived an ingenious machine for the manufacture of nails. Iron nails hitherto used have either been forged or cut by machinery from sheet iron or iron wire. Thus made they are necessarily costly—the first named by reason of the slowness of the manufacture, and the two latter by using too expensive material. This new machine supersedes all others by combining in itself the process of rolling, pointing, cutting off and heading, and produces from bar iron an excellent nail at a very low cost. The rapidity with which the nails are produced by this invention is truely marvelous. Using bar iron three-eighths of an inch square, the machine, with the labor of only one operator, will turn out in ten hours as many as fifteen thousand three inch nails. The nails produced are of the very highest quality, being compressed by the rolling process, and always having the grain of the metal in the direction of the length. They are formed with fluted sides, which is the most advantageous of all forms, but very expensive to produce by other process hitherto resorted to. By slightly altering and readjusting certain parts of the machine, different sizes and forms may be produced.

At a recent scientific lecture, the experiment of extinguishing petroleum lamps by a single note sounded on a brass trumpet, was tried successfully.

The Ram Dundenberg—Casting of Her Screw Propeller.—The screw propeller for the ram Dundenberg was successfully cast on Saturday, March 18th, at the Ætna Iron Works, New York, in the presence of a large number of engineers and officers of the navy. The composition of the screw is 88 parts of copper, 10 of tin, and 2 of speltor, and is the largest ever cast of like material. It is 21 feet in diameter, has 4 blades, and will weigh about 32,000 lbs. The process of casting, which occupied about two minutes, was a most interesting sight.

A New Locomotive.—At the last sitting in Paris, M. Combs describes a new system of locomotives now in use on the Northern Railway, so constructed as to surmount considerable declivities, and to describe curves of a small radius. These engines have four cylinders and six axletrees, divided into two groups of three each, moved by the pistons of one pair of cylinders. The wheels are so small that the fire-place of the boiler extends beyond them, whereby the fire acquires the unusually large surface of 3:33 square metres. The engines are provided on starting with 8,000 kilogrammes of water, and also 2,200 kilogrammes of combustibles; their total weight is 60,000 kilogrammes, equally distributed on the six axletrees. In order to facilitate the describing of small curves, a little play is left between the flanges of the wheels which keep the train between the rails and the rails themselves; moreover, the axles have some play in their sockets. By these various contrivances combined, the new engines have mounted gradients of 25 millimetres, and described curves of 60 metres radius.

The Mining and Scientific Press Patent Agency.

OFFICE, 57, GOVERNMENT HOUSE, SAN FRANCISCO.

Information About Obtaining Patents.

The Patent Law Amendment Act, of March 4th 1861, and March 3d 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent? A positive answer to this question is only to be had by presenting a formal application for patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the Mining and Scientific Press. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Preliminary Examinations.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search made at the U. S. Patent Office, Washington, through the medium of our associate in that city, to ascertain whether among all the patents and models there stored, any invention can be found which is similar in character to that of the applicant. On the completion of this special search we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollars. This search, though it involves the expense just named, will usually prove satisfactory. If the same device has been before patented, the time and expense of constructing models, preparing documents, etc., will in most cases be saved; if the invention has been in part patented, the applicant will be enabled to modify his claims and expectations accordingly. Many other obvious advantages attending the Preliminary Examination; although the strictest search does not always enable the applicant to know positively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publication; or some other person has been previously rejected on an analogous device; or some other invention for a similar purpose, but partially resembles the applicant's in its construction; or the Government makes an unjust or uncommon decision. Against none of these contingencies does the Preliminary Examination provide; it will, however, generally inform the applicant whether an improvement similar to his had been used for the same purpose has ever been patented or not in this country.

Persons desiring the Preliminary examination are requested to remit the fee ($10), and furnish us with a sketch and description of the invention.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian, Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of governments that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charges for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $30. If the patent is granted no further agency expenses ensues.—If the application is rejected we cause a thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have access to all the drawings, models, books and papers and specifications cited in references, and we report the result as early as possible to our client. For this service we make no charge. If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The laws requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimensions; it should be neatly made, of hard wood or metal, or both varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express, or otherwise, to our address, namely: Dewey & Co., Mining and Scientific Press, rooms 56 and 57, Government House, corner of Sansome and Washington Streets, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail—The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due, and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued, the applicant will be notified to remit the last installment of the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months and even more. We make a special point to forward our cases as rapidly as possible.

Return of Models.

Under the new law, if the applicants case has been rejected he is entitled to withdraw his model from the Patent Office.

This law applies to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expense

Application for Patents, Designs, Trade-Marks, Labels, etc.

Under the new law patents may be taken out for any new form of any article, also for tools, patterns, castings, machine-frames, stove-plates, borders, fringes, all new designs for printing, weaving or stamping upon silks, calicoes, carpets, oil-cloth, prints, paper-hangings, and other articles. Trade-marks, labels, envelopes, boxes and bottles for goods, may also be patented; likewise all works of art, including prints, paintings, busts, statuary, or compositions in alto, or basso relievo, new dies, impressions, ornaments to be placed upon any article of manufacture, architectural work, etc.

Our facilities for the prompt preparation and securing of patents are of the most extensive character and our charges are very moderate.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the tariff of fees established by law:

On every application for a design, for 3 years and six months...	$10
On every application for a design, for seven years...	15
On every application for a design, for fourteen years...	30
On every caveat...	10
On every application for a patent...	15
On issuing each original patent...	20
On filing a disclaimer...	10
On every application for a re-issue...	30
On every additional patent granted on a re-issue...	30
On every application for an extension...	50
On the grant of every extension...	50
On appeal to the Commissioner from Examiners-in-chief...	20
On every appeal to the Judges of Circuit Court, D. C...	25

Infringements.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunction from the Court, to an arrest of or prohibition from the employment of his machinery, shop, works, factory and men in production of the article.

In addition to injunction the infringer is liable to be mulcted in treble the amount of damages awarded by the jury. The maker, the storekeeper, and the purchaser, if a user, are all liable either collectively or individually.

Having access to all the patents, models, public records, drawings and other documents pertaining to the Patent Office, we are prepared to make examinations and give opinions upon all infringement questions, advise as to the scope and ground covered by patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Appeals.

In rejected and other cases, the new law provides for an appeal from the Examiner-in-chief to the Commissioner in person, on the payment of a fee of twenty dollars. A further appeal may be taken from the decision of the Commissioner to the U. S. Court, of the District of Columbia. These appeals are heard by any of the Judges before whom the applicant elects to bring the case. No Jury. All the papers, models, etc., are sent by the Commissioner to the Judge, who then reviews the case, and either sustains or reverses the Commissioner's decision.

The party taking the appeal pays an additional fee of twenty-five dollars. The Judge appoints a day of hearing. The applicant can appear in person or by counsel to state his case and file a written argument. Five days are allowed the opponent to put in an answer, and a similar period to the appelant for a closing reply.

Many important cases are brought before the Judges on appeal and the decisions of the Commissioner are not unfrequently reversed.

We have had successful experience in conducting these appeals, and our services are rendered on moderate terms.

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Mining and Scientific Press.

W. B. EWER,.....Senior Editor.

O. W. M. SMITH. W. B. EWER. A. T. DEWEY.

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M. M. Barker,.....Austin, Reese River
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San Francisco:

Saturday Morning, April 30, 1864.

A STRANGE FISH.—The fish styled by the reporters of the daily papers "Wolf Eel," "Sea Serpent," etc., which was on exhibition yesterday in front of McDonald's restaurant, corner of Leidsdorf and Clay streets, and which attracted so many curious visitors, was taken by some Italian fishermen near the Farralones. It measured about four feet and a half in length. Though it resembles very much the wolf fish or *Annarrhicas Vomerinus* of Massachusetts Bay, it is a distinct species, known to naturalists as *Annarrichys Ocellatus*. It is peculiar to this coast, and lives about rocky bottoms or shores; is supposed to subsist principally upon shell-fish and grows to the length of six feet or more. Though this fish is repulsive to many, it is cousidered by those who have tried it a very delicate dish for food. The first specimens known to naturalists were caught in San Francisco Bay, by some Italians, in 1855, and reported and described by Dr. W. O. Ayres, to the California Academy of Natural Sciences. From this report, Dr. Ayres has kindly permitted us to make the following extracts:—

"The greatest depth is at the origin of the dorsal fin (near the back of the head) and is contained nineteen times in the length; thickness, one half the depth; the depth tapering to a point at the caudal extremity. Teeth strongly developed. In the upper jaw four (in one specimen only three) stout canine teeth; behind these a transverse row consisting of three or four smaller, but of similar form; and on each side an imperfect row of three or four smaller ones extending back; all of these are on the *intermaxilaries*. The entire anterior portion of the *vomer* is covered with a mass of large, close set, rounded, grinding teeth. Each palatine bone is provided with a firm row of teeth, like those on the vomer, but smaller. In the lower jaw are four or five strong canine teeth in front, similar to those above, and interlocking with them as the mouth closes; all the jaw posterior to these is filled with strong molar teeth."

"The dorsal fin, arising almost at the back of the head, continues to increase for nearly a fourth of its length, attaining thus a hight equal to the head of the fish. A little posterior to this the elevation becomes less, and the fin gradually decreases in hight until near the caudal extremity, where it has only one-third of its greatest elevation."

"In color perhaps no more beautiful fish than this has yet been found in our waters. It is elegantly mottled with light ashy grey, and dark olive green, disposed in irregular rings, lines and blotches, which cover the head and body; they extend also upon the dorsal fin, which, in addition, bears a remarkable row of large, brilliant, sharply defined ocellations; these are of such size as to occupy about half the hight of the fin, each consisting of a light ring, enclosing a much darker space. At about the middle of the length, these rings (in one specimen) became blended, forming thence a black band, with a line above and below, which extends to the caudal. The *anal* is dark and brown, (black near the tail,) with a border almost white in its whole length. These notes of colors are taken from a young specimen only twenty inches long—In another, fifty two inches in length, the colors, though not essentially different, were less brilliant."

"A. Ocellatus is apparently rare. Only two specimens have been seen, which by a singular coincidence were brought into market within two days of the same time. None of the fishermen had seen the species previously. The stomach of the larger specimen contained fragments of a Sea-Urchin apparently a *Cidaris*, so that their habits appear to be like those of the *Annarrhicas*. Both specimens were taken in the Bay of San Francisco."

The specimen now in the city is in the hands of Dr. Blake, who has placed it in a bath of alcohol preparatory to its being forwarded to the Smithsonian Institute.

MINING SHARE MARKET.

The transactions of the Mining Share Market still continue to show a great falling off from the average of last quarter's business. This depreciation, however, is rather attributable to a neglect of first-class shares, from want of capital for investment rather than from any lack of confidence in the mines themselves. As a general thing, the speculative mines are showing a degree of improvement which is quite satisfactory. The transactions of the week foot up at $820,526.

Ophir has still further declined with but little business. Sales of six feet were noted on Monday, at $1,425@1,450, since which time it has been quiet. It is freely rumored that no dividends will be declared by this Company for at least two months to come.

Gould and Curry has been inactive at from $4,490 @4,550—about last week's figures.

Chollar shares are more in favor at an important advance. Inactive, last week, at $400. A report received on Monday of a favorable strike at the mine sent the stock up suddenly to $465 and $500; it subsequently fell back to $430, at which figure it closed at yesterday's board.

Daney advanced to $115, the middle of the week, but subsequently declined to $104 at yesterday's board.

Bullion was heard from yesterday at $68@71; Knickerbocker, at $36; Charles Caney, at $9; Independent, at $55. Burnside is inactive, at previous quotations—$10@13.

Central American continues to fluctuate from $12 @25. Pride of the West has slightly improved in favor, and is quoted at $75@80.

Imperial opened the week at $175, and closed at $160.

North Potosi has met with considerable business, at rates fluctuating according to the various estimates placed upon the final result of the suit with the Savage.

Potosi has met with a single purchaser at $850. Sacramento & Meredith has sold at $50, a slight decline from last week.

Nevada, J. G., is in less request at slightly declining rates; it may be quoted from $75 to 87.

Uncle Sam has slightly declined, since the consolidation arrangement. The same result has been noticed in the case of its associates the Baltic and North American. This has been entirely unexpected, as an advance was confidently expected.

Burning Moscow maintains about even figures with last week, but with much less business. It closed yesterday at $109, with an upward tendency.

Bajasette and Golden Era has been heard from at $35; Adriatic, at $8@11; California Tunnel, at $23; Mary Ann from $95@110; Lafayette at $12; Sweet Vengeance (a new comer), at $20; Kohler Bros, at $26.

Lady Bryan has maintained about its last week's figures, but with a large decline in the amount of business transacted.

Baltimore American has been in less demand, but at more uniform rates than last reported. It may be quoted firm at $50.

Seucca, which has been comparatively quiet for some time, at about $16, took a sudden start on Wednesday, in consequence of the reception of telegraphic advices of a favorable strike at the mine, and went up to 27, and subsequently still further advanced to 31, at which figure it closed.

Blue Ledge is steady at previous figures. The mill is expected to be ready to start on Monday, when the actual value of this mine will soon be ascertained.

We quote Shoshones at 2¾; Santa Rosa at 8½ Buckeye at 16; Laurel Hill at 1; Josephine, Coso, at 3½@4; Union, Russ District, at 1; Coso at 3¾; Crockett, Con., at 8.

Among the new comers we quote Index (copper) at $9@9½; Fair Haven at 3½; Larned at 1¾; Good Return at 1¾@3½; Green, Gold Hill, at 5½ @8½; Eclipse at 13; Johnson at 19; Mountain, No. 1, at 7½; Golden Age and Empire 32@35.

Mina Prieta has sold at $75; Codicia at 6; Melones at 38; Grass Valley at 45; Justice at 80; Michigan 31; Mount Davidson 2; Josephine (copper) 3.

Real del Monte has again become quiet. We notice sales of only 384 shares, at about last week's figures, from $68@83, closing at the former figure. The affairs of the Company appear to be assuming a favorable aspect. Bullion still continues to come in; another lot of $12,500, the result of one week's work, is now on its way to this city.

Wide West still continues at last week's figures. Reports from the mine are decidedly favorable.

Utah has been sold at from $24@39.

North Star, Reese river, has met with buyers at $56; De Soto, at 30; Lancaster, at 15; and Cuba, at $4.

SIERRA.—Our correspondent, J. E. Clayton. M.E., has recently returned from southern Sierra, where he has been examining various mines. He reports that rich section of new quartz discoveries one of exceedingly rare features. The readers of the PRESS may soon expect to hear something further about this district from him. We are under especial obligations to our excellent friends Kellogg & Cutler, of Alleghany, and M. A. Singleton, of Minuesota, for subscription lists forwarded. Parties who feel an interest in the success of our journal should emulate their example.

VENOUS TRANSFUSION.—A late member of the Leipsig *Medical Gazette* mentions a recent case of the successful transfusion of animal blood into a human subject. Twelve ounces of blood from the veins of a lamb were injected, with benefit, into the veins of the patient.

DISTINGUISHED STRANGER.—Captain Chonsoff, of the Mining Bureau of the Russian army, has for several days past been visiting and inspecting the various mining towns of Nevada county. He returns to San Francisco for the purpose of sailing on the Russian vessel now in the harbor.

POISONING FROM VULCANITE.—A writer in one of the English medical journals reports several cases of disease of the mouth, attributed to the red sulphuret of mercury in the vulcanite employed for plates in dentistry. A correspondent of the San Francisco *Medical Press*, says that the quantity of the mineral used in coloring the vulcanite is so small, and the combination so capable of resisting the action of any agent likely to come in contact with it in the mouth, as to render the statement exceedingly doubtful. The correspondent is informed by an intelligent dentist that experiments are in hand tending to the substitution of aniline as a coloring matter, which will obviate the possibility of mischief from the use of vulcanite.

Record of New Incorporations.

The following is a record of the names of the companies, location of the claims, and the names of the Trustees mentioned in the articles of incorporation, filed in the County Clerk's office, in this city, since our last report:—

Granite State G. & S. M. Co., Amador county, Cal.; W. J. Andrews Wm. Smith, Stephen Otis, A. C. Perkins, Thomas Dillon.
Ormella Consolidated G. & S. M. Co; same as above.
Saghaw Consolidated G. & S. M. Co.; same as above.
Thomas G. & S. M. Co., Lander county, N. T.; C. Ballis, George Mezger, J. Fitzler, J. S. Freeborn, C. Mezger.
Gem of Sierra S. M. Co., Humboldt county, N. T.; Hall McAllister, Isaac N. Wright, Wm. T. Brown, F. E. Corcoran, John Dillon.
Trinidad S. M. Co., Nye county, N. T.; Francis Pardo, S. Arana, J. S. Freeborn, Benj. Smith, Robert Cunningham.
Utah M. Co., Esmeralda district; J. W. Denney, R. B. McCullough, Matthew Platt, J. M. Braty, H. C. Wheeler,
Van Dyke G. & S. M. Co., Lander county, N. T.; W. E. Horne, C. E. Abbott, Daniel R. Beckford, J. S. Scott, J. C. Collins.
Whitlock & Sherlock G. M. Co., Mariposa county, Cal.; John Sullivan M. Cody, C. H. O'Sullivan, Richard Tobin, P. Hussey.
Northern G. & S. M. Co., Placerville, Cal.; H. W. A. Worthera, S. M. Woods, C. W. Monthrop.
Canada G. & S. M. Co., Lander county, N. T.; J. Ferrault, J. W. Meagher, Milo Calkin.
Charter Oak S. M. Co., Slate Mountain, Mono county; J. E. Goodall, D. N. Mitchell, Wm. B. May.
Eclipse G. & S. M. Co., Tulare county, Cal.; Justin Calac, Joseph Blaine, H. V. B. Henarie, Horace Morrison, S. Sweet, H. D. Ellerhorst, James Phelan.
Bona Fide Co., Placer county, Cal.; C. L. Low, P. B. Cornwall, Wm. Norris, S. Cross, W. S. Mesick.

Gold in New York.

Friday, April 22.....167@169.
Saturday April 23.....174¼.
Monday April 25.....172@173¾
Tuesday April 26.....184½@186½@189
Wednesday, April 27.....181¼.
Thursday, April 28.....164½@160.

Legal Tender Notes.

San Francisco, Friday April 29.....60 per cent.

ANOTHER SPRING OF COAL OIL.—A friend returned from a visit to the Independence and Pittsburg coal mines of Mount Diablo, reports considerable satisfaction in that neighborhood at the finding of a fine spring of coal oil. May it be perennial.

Notice to James M Ross, or his Heirs:—You are requested to call at this Office, where information of importance awaits you. Said Ross left San Francisco, in June last, for Noyo Mills.

Information Wanted.

Information is desired at this office of the location of the place of business of the following Company:

Pacific Smelting Works, Chas. F. Secor, President; Edwin Harris, Secretary.

WM. T. COLEMAN & CO.,
70 WALL STREET,
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Buy and sell and charter Vessels for all trades.
AGENTS FOR "COLEMAN'S CALIFORNIA CLIPPER LINE," loading and despatching regularly, every month, two to three first class clippers for San Francisco. Goods forwarded from any part of the United States or Europe, will be received with care, and shipped immediately at lowest current rate of freight. Bonded goods carefully attended to.
Orders for purchase of merchandise should be accompanied with a remittance of about 20 per cent. of the cost, or satisfactory arrangements can be made with our San Francisco house. On orders for Bonds and Stocks, 10 per cent. of the par value is always required.
We beg to say, no house has superior facilities for the transaction of all this business, and parties intrusting their interests to our care may rely upon our most faithful and watchful attention.
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18v8 And California and Front streets, San Francisco.

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HENRY SCHMIEDELL,
(Member of the San Francisco Stock and Exchange Board,)
Stock Broker & Real Estate Agent,
Office, 705 Montgomery Street, San Francisco. 18-m

MINING AND SCIENTIFIC PRESS.—Having missed a few numbers of this excellent paper, we feared it had ceased to exchange; but as it has again resumed its regularity, we are a little easier on the subject. The MINING PRESS is an almost indispensable companion to the miner and mill man, and when in our peregrinations we find it in the cabin of the one or the office of the other, we look for, and invariably find, a superior intelligence and more satisfactory working than where it is unknown, and its precepts ignored. We would dislike to be deprived of it, either as editors, miners, millers, or mechanics.—*Reese River Reveille.*

Mr. Jarvis Jewett is our duly authorized advertizing agent and collector in this city.

MINING NOTICES—APRIL 30th.

Umatilla Gold and Silver Mining Company, Reese River District, Lander County, Nevada Territory. Office, Corner of Bush and Kearny sts., San Francisco.

Notice is hereby given that the annual meeting of Stockholders of the Umatilla Gold and Silver Mining Company, Reese River district, Lander county, N. T., for the election of a Board of Trustees to serve for the ensuing year, and the transaction of any other business that may come before the meeting, will be held at the Office of the Company, in the City of San Francisco, on TUESDAY, the 17th day of May, 1864, at 7½ o'clock, P. M.

L. E. MORGAN, Secretary.

Notice.—The Annual Meeting of the Stockholders of the Mountain Mary Gold and Silver Mining Company, will be held at the Office of the Company, 430 Montgomery street, San Francisco, on the third Saturday in May next, for the purpose of electing three Trustees. J. WARREN CLARK, Sec'y.
San Francisco, April 27th, 1864. 18-tt

Wide West Copper Mining Company, Stanislaus District, Calaveras county, Cal.

A STOCKHOLDERS' MEETING of the Wide West Copper Mining Company will be held at the office of the Company, No. 615 Clay street, on Tuesday, May 31st, 1864, at 7½ P. M., for the election of officers, and such other business as may come before it.

M. O. ELMORE, Secretary.
San Francisco, April 29th, 1864. 18-4t

Pena Silver Mining Company.—Notice is hereby given that the annual meeting of the Stockholders, of the "Pena Silver Mining Company," will be held at the Office of the Secretary, No. 411 Clay street, on WEDNESDAY, the 8th day of June, 1864, at 7 o'clock, P. M., for the purpose of electing a Board of five Trustees for the ensuing year. By order.

WM. FAULKNER, Secretary.
April 26 1864. (18-4t) Office, 411 Clay street San Francisco.

La Marronena Silver Mining Company.—Notice is hereby given that the annual meeting of the Stockolders of the La Morrenena Silver Mining Company will be held at the Office of the Secretary, No. 411 Clay street, on WEDNESDAY, the 8th of June, 1864, at 4 o'clock, P. M., for the purpose of electing a Board of Trustees for the ensuing year. By order.

WM. FAULKNER, Secretary.
April 26, 1864. (18-4t) Office, 411 Clay street, San Francisco.

Storm Cloud Silver Mining Company, Reese River District, N. T.

Notice is hereby given that in accordance with the by-laws of the Company, the first quartely meeting of the Stockholders of the Storm Cloud Silver Mining Company, for the election of Trustees, and transaction of other business, will be held, at the Office of the Secretary, No. 624 Montgomery St., San Francisco, on MONDAY, May 30th, 1864, at 3 o'clock, P. M. By order of the Board of Trustees.
18-4t H. H. McCOUGHTRY, Secretary.

Bay City Silver Mining Company, Reese River District, N. T.

Notice is hereby given that in accordance with the by-laws of the Company, the first quartely meeting of the Stockholders of the Bay City Silver Mining Company, for the election of Trustees and the transaction of other business, will be held at the office of the Secretary, No. 624 Montgomery street, on MONDAY, June 6th, 1864, at 3 o'clock, P. M. By order of the Board of Trustees.
18 4t H. H. McCOUGHTRY, Sec'y.

Cortez Gold and Silver Mining Company, Cortez District, Nevada Territory.—San Francisco, April 28, 1864.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 27th day of April, 1864, an Assessment of two dollars and fifty cents per share was levied upon the capital stock of said Company, payable immediately, in gold coin of the United States of America, to the Secretary, at the office of the Company, 706 Montgomery street, San Francisco.

Any stock upon which said Assessment shall remain unpaid on the 2d day of June, 1864, will be advertised on that day as delinquent, and, unless payment shall be made before, will be sold on the 20th day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of sale.

R. N. VAN BRUNT, Secretary,
13-4t No. 706 Montgomery street, San Francisco.

Mountain Mary Gold and Silver Mining Company, Silver Mountain, Alpine county, Cal.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held April 23d, 1864, an assessment of twenty-five cents per share was duly levied, payable in U. S. Gold coin, to the Secretary, J. Warren Clark, 430 Montgomery Street, San Francisco, (room No. 5, 3d floor), or to COUNCIL GOODELL, Superintendent, Silver Mountain.

Any stock upon which said assessment shall remain unpaid on the 28th day of May, 1861, will be advertised on that day as delinquent and unless payment shall be made before, will be sold on the 16th day of June, 1864, to pay the delinquent assessment and costs of advertising and expenses of sale. By order of the board of Trustees.

J. WARREN CLARK, Sec'y.
18-4t Office, 430 Montgomery street.

George Leet Gold & Silver Mining Company, Crown Point Tunnel and Mining Company, Reese River Mining District, N. T.

Notice is hereby given, that at a meeting of the several Boards of Trustees of said Companies held on the 25th day of April, 1861, an assessment of fifty (50) cents per share was levied upon the Capital Stock of said Companies, payable immediately, in United States Gold coin, to the Secretary, at his Office, No. 509 Clay Street, or to S. F. AMBLER, at Austin, N. T.

Any Stock upon which said assessment shall remain unpaid on Saturday, the 28th day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 15th day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

D. B. FRANCIS, Secretary.
18-4t Office, 509 Clay St., San Francisco.

Is is full of the most valuable regarding matter. Those at all interested in mining affairs should subscribe for it at once.—*Alameda Gazette.*
It is devoted to news, art, science and progress, and should receive a liberal support.—*Solano Press.*

Tellurium Gold and Silver Mining Company, Pine Grove, Amador county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 21st day of April, 1864, an Assessment of one dollar per share was levied upon the Capital Stock of said Company, payable on the 23d day of April, 1864, in United States gold and silver coin, to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 4th day of June, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale. By order of the Board of Trustees.

WM. H. MARTIN, Secretary.
Office, 627 Clay street, San Francisco. 17-4t

Grafton Gold & Silver Mining Company, Reese River Mining District, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 25th day of April, 1864, an assessment of thirty (30) cents per share was levied upon the Capital Stock of said Company, payable immediately, in United States Gold Coin, to the Secretary, at his Office, No. 509 Clay St., or to S. F. AMBLER, at Austin, N. T.

Any Stock upon which said assessment shall remain unpaid on Saturday the 28th day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 15th day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

D. B. FRANCIS, Sec'y.
18-4t Office, 509 Clay Street, San Francisco.

Gobernadora Silver Mining Company, San Antonio District, Lower California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 28th day of April, 1864, an Assessment of one dollar per share was levied upon the Capital Stock of said Company, payable on the 30th day of April, 1864, in United States gold coin to the Secretary, at the office of the Company.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 28th day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 11th day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

C. W. HAYDEN, Secretary.
18-4t Office, 625 Clay street, San Francisco.

Lewis Consolidated Gold and Silver Mining Company, Nicolaus Gold and Silver Mining Company, Reese River Mining District, N. T.

Notice is hereby given, that at a meeting of the several boards of Trustees of said Companies held on the 25th day of April, 1864, an assessment of twenty-five cents per share was levied upon the Capital Stock of said Companies, payable immediately, in United States Gold Coin, to the Secretary, at his Office, 509 Clay St., or to S. F. AMBLER, at Austin, N. T.

Any Stock upon which said assessment shall remain unpaid on Saturday, the 28th day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 15th day of June, 1864, to pay the delinquent assessment, together with costs of Advertising and expenses of the sale. By order of the Board of Trustees.

D. B. FRANCIS, Secretary.
18-4t Office, 509 Clay Street, San Francisco.

Eureka Mill and Mining Company, Big Creek District, Lander county, N. T.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 25th day of April, 1864, an assessment of five ($5) dollars per share was levied upon the Capital Stock of of said Company, payable immediately, to the Secretary, or to R. W. BRETT.

Any stock upon which said assessment shall remain unpaid on Saturday, May 28th, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, June 11th, 1864, at 12 o'clock M. to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. N. DUPERU, Sec'y.
18-4t Office, No. 208 California St., San Francisco.

CAUTION.

Enterprise Gold and Silver Mining Company.—Location, El Dorado Canon, Territory of Arizona.

The public are hereby cautioned against purchasing the following Certificates of Stock of the above named Company, the same having been sold, by order of the Board of Trustees, to pay assessments delinquent—to wit:

Names.	No. Certificate.	Shares.
T. H. Williams	2, 4, 5, 7, 8	20, 10, 10, 30, 20
	10, 11, 18, 19, 20	20, 10, 25, 25, 25
	21, 45, 97, 98, 99, 100	25, 5, 5, 5, 5, 5
M. D. Fairchilds	14	35
Jacob Hoinz	40	5
Joseph F. Butler	103	5
A. M. Bennett	15, 92	10, 5
S. L. D. Lino	46	10
Abraham Jones	102	10
C. A. James	26, 82, 90, 91	5, 5, 5, 10
J. P. Clark	24	20
O. E. Johnson	28, 93, 94	15, 5, 5
C. Fiuk	9	5
Robert Keir	30, 31, 32	25, 25, 25
Alexander Kier	33, 34, 35	25, 25, 25
William Wosenchraft	36, 37, 38	25, 25, 25
Thomas Brown	77	5
C. W. Young	85, 86, 88	2, 2, 1
John Miller	79, 80	50, 50
Columbia Dyer	89	5
T. A. Burch	76	10

L. B. WOOSTER, Secretary,
18-4t 622 Washington street, San Francisco.

HENRY BAKER AND JOS. N. SOUTHER, MINING SECRETARIES.

Rooms 12 & 14 Athenæum Building, corner Montgomery & California Streets, San Francisco.
B. & S. will attend, in a prompt and satisfactory manner, to the Incorporation of Mining and other Companies, the purchase and sale of Stocks and Real Estate, and the adjustment of accounts.
8v8-m

SAGE BRUSH FOR STEAM MILLS.—J. C. Fall, Superintendent of Fall, Price & Co.'s mill, is exultant over a discovery made this week. Not being crowded with work, he concluded to run through some rock which he was aware must be worked economically, or he would not keep even. It would not do to use $10 or $12 wood for the boiler, in which a good heat must be kept up for amalgamating. He bethought bim of the common pest of the country—sage brush—and set a man to work cutting and an Indian to packing it in. He soon found that this brush makes an exceedingly good fire for the purpose. It requires almost constant feeding, but it keeps up a rousing heat. Since that experiment he has used no other wood, and the further trials confirms the estimation at the close of tbe first day's trial—and tbat is, that $4.50 expended in procuring sage brush, is equal if not superior, to $12 invested in cordwood. Fall is much rejoiced at the result of his experiment, and may well be, for it is destined to be an important saving if this brush will serve the purpose of wood. The sage brush grows in such abundance over the flats and mountain sides for long miles about as to be a great annoyance. If it can be made to serve so good a purpose, it will uot be regarded with the contempt it has hitherto; but will look up in the world, and say to the pine and the tall cedars, "Wbat a demand there is for us trees!" Mr. Fall thinks he has now good assurance of fuel in abundance for tbe new steam engine to be put up at the mill this season.—*Humboldt Register.*

All wbo have crossed tbe plains are well acquainted with the valuable properties of sage brush for fuel. It burns freely, and makes a very hot fire. Mesquit is also valuable for making steam. It is more difficult to gather, but the fibre is firmer, and it produces a more intense beat than sage brush. It will be recollected by many of our readers that about one year ago one of our correspondents in the southern portion of the State furnished some interesting particulars with regard to the use of mesquit for making steam.

IMPORTANT!

The Best is Always the Cheapest!

THE PHŒNIX

INSURANCE COMPANY,

OF HARTFORD, CONN.,

And the $75,000 Deposit Act.

THE BILL REQUIRING ALL FOREIGN INSURANCE COMPANIES to make a special Deposit of $75,000 in Stocks of the United States, of this State, or stocks or bonds of the city, or city and county of San Francisco, with their banker or bankers in this city, on the FIRST DAY OF MAY, 1864, having become a law, it may be of interest to the insuring public to know that the PHŒNIX INSURANCE COMPANY, OF HARTFORD, IS READY TO COMPLY WITH ITS REQUIREMENTS AT ONCE. The Company has over $50,000 in city and county of San Francisco bonds, already on deposit with Messrs. Banks & Co. R. H. MAGILL, General Agent.

CITY OFFICE—In the "James King of Wm." building, southwest corner of Montgomery and Commercial streets, San Francisco.
I. FRANK, City Solicitor. (14v8-tf) L. B. DELL, City Agent.

To Prospectors and Owners of Mines!

The Pacific Metallurgical Works

Of this City, have been in operation over four years—have operated on nearly all kinds of rock—having never yet found the Kind they could not reduce. We now solicit from Mill owners, samples of Ore Sulphurets which they find rebellious or hard to work, and we will either purchase the Ores or show them how to work them, by their paying the freight to this City.

Advances made

On all kinds of Mineral Rock or Sulphurets!

COPPER ORES, BOUGHT OR ADVANCED UPON FOR SHIPMENT.

We still manufacture the FIRE-PROOF MINERAL PAINT of which there was so much sold last year.

J. C. BRADSHAW, JR. Sec'y.
17-1m Office, 511 Sacramento St., San Francisco.

PHŒNIX WORKS.

Nos. 6 & 8 Battery street, near Bush, San Francisco.

JOHNATHAN KITTREDGE, MANUFACTURER

—OF—

FIRE-PROOF DOORS, SHUTTERS, GRATINGS AND BANK VAULTS.—ALSO, BLACKSMITH'S WORK. 14-m

BLASTING POWDER!

Prime Blasting Powder, on Consignment

And for sale in lots to suit purchasers, by

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Miscellaneous Advertisements.

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Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

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GRUSH & CO.,

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Drawings Made for Engines, Mills, Water Wheels, Mining Machinery, Etc.

—ALSO—

WOOD WORK FOR ALL KINDS OF MACHINERY.

☞ SCROLL SAWING DONE TO ORDER.
Fremont St., between Market and Mission, San Francisco. 3-3m

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MACHINIST AND BLACKSMITH.

Steam Engine, Flour and Saw Mill,

And Quartz Machinery, Printing Presses,

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MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED
Nos. 109 and 111 Fremont street, near corner of Mission,
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GALLAGHER & WEED,

BRASS AND BELL FOUNDRY

And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING, DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, MADE to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks, also brass Padlocks and Shop Locks of various patterns, on hand and made to order.

☞ Particular attention given to casting Rudder Braces and Ship Work in general.

☞ All Jobs promptly attended to.—Prices moderate. ☜
No. 125 First Street, opposite Minna, next door to Pacific Foundry.
[Removed from Oregon street, between Front and Davis.]
j2tf

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LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

THE ONLY EXCLUSIVELY BOILER MAKING ESTABLISHment on the Pacific Coast, owned and conducted by Practical Boiler Makers. All orders for New Work, the repairing of Old Work, executed as ordered, and warranted as to quality.

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BOILER MAKERS AND SHEET IRON WORKERS,

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qy29-tf

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HAVING BEEN CONNECTED WITH THE PUBLIC WORKS OF the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. Also

State Locating Agent,

AND AS SUCH HAVING THE SALE OF

600,000 Acres of State School Lands.

At the low price of $1,25 per Acre.

TERMS—Twenty per cent in cash and the balance on a credit of several years.

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Steam and Mechanical Engineer. Designs furnished, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc., etc. Agent for McKenzie's Patent Cupola and Blower.

At the Golden State Iron Works,

First Street, San Francisco.
tf.

Boston Mastic Roofing.

WE ARE PREPARED TO FILL ALL ORDERS FOR ROOFING throughout the State, Mexico or Nevada Territory. The attention of miners and mill owners are especially called to this notice, it being the cheapest and most economical roofing in use.

Office 135 Montgomery Street, near Bush, San Francisco.
10v8-2m N. P. PERIN & CO.

WANTED,

Gold Quartz suitable for Cutting Jewelry.

By FRONTIER & DEVIERCY.

437 Pine Street, San Francisco.
an31tf.

FREDERICK MANSELL.

Mechanical & Architectural Draughtsman,

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Drawings of MODELS made for parties applying for patents at Washington or London. mar23-tf.

A. S. HALLIDIE & CO.,

WIRE ROPE MANUFACTURERS.

Established 1857.

Office, No. 412 Clay street—Works, North Beach,

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After seven years' use throughout the State of California and the Pacific Coast generally, we can confidently recommend Wire Rope for

HOISTING FROM DEEP MINES,
GUY ROPES FOR DERRICKS, &c.,
STANDING RIGGING FOR SHIPS,
FERRY ROPES FOR FERRIES,
SASH CORD FOR WINDOW SASHES,
ETC., ETC., ETC., ETC., ETC., ETC

It being Cheaper, Stronger, Lighter and More Durable than any other kind of Rope, and not stretching or shrinking by atmospheric changes.

MINING COMPANIES, by using it for Hoisting Purposes, save 66 per cent. on their outlay for other ropes.

Wire Fencing Strand,

For fencing large parcels of land—permanently, economically and expeditiously. Manufactured in any length desired.

Pamphlets containing weight, strength and price, forwarded free application to the Manufacturers.

WIRE SUSPENSION BRIDGES AND AQUEDUCTS

We are prepared to erect, of any span and capacity, and take pleasure in referring those interested to the many structures of this kind built by us in California, Oregon and British Columbia, of span from 200 to 400 feet. 3-3m

MINERS' FOUNDRY

—AND—

MACHINE WORKS,

First street, between Howard and Folsom streets,

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EVERY DESCRIPTION OF IRON AND BRASS MACHINERY, the Best and Most Economical, manufactured in the State of California, will be furnished with dispatch at the Miners' Foundry and Machine Works, as:

Steam Engines and Boilers, Flour, Saw and Quartz mill machinery, Mining Pumps, Amalgamators, Retorts, Etc., Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections, designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

, Parties desiring to test their ores practically, in small quantities will be afforded ample facilities, free of cost.

All parties desiring accurate and highly finished drawings and Superior Machinery, at most reasonable rates are cordially invited to call before contracting elsewhere.

tf. HOWLAND, ANGEL & KING.

Vulcan Iron Works Company.

P. Torquet.....Manager.

Steam Engine Builders and Boiler Makers, Iron Founders and General Engineers,

PUMPING, HOISTING, MINING AND QUARTZ-CRUSHING MAchinery. Shoes and Dies of the hardest iron. Russia Iron Punched Screens, Steamboat Machinery, Saw, Flour and Sugar Mills. High and Low Pressure Boilers of all styles. JONVAL and other Turbine Water Wheels with latest improvements.

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IMPROVED WATER-WHEEL,

—PATENTED BY—

John Tyler, West Lebanon, N. H.

GIVING THE MAXIMUM POWER WITH THE MINIMUN COST—HAVING THE FOLLOWING AS SOME OF ITS ADVANTAGES OVER OTHERS—GIVING THE BEST PER CENTAGE OF WATER USED, DURABILITY.

It runs Equally as well IN Back Water as OUT.

IT IS ADAPTED TO HIGH HEADS OR LOW—IT IS NOT LIABLE to get out of repair—it can be put to running by any Machinist in a very short time—It is the steadiest running and easiest regulated wheel in use—There are now some 60 of them in use in the United States and Canadas, running under all heads, from 4 to 80 feet, and giving universal satisfaction. Address

SMITH & HANSCOM,
15v8-3m Golden State Iron Works, San Francisco.

WHEELER'S

Amalgamating and Separating Pans

IT IS ACKNOWLEDGED BY ALL WHO HAVE EXAMINED THE principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.

The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metal arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the triturating, this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.

Where these Pans have been introduced and operated by the side of others on sands from the same vat, the Wheeler Pans have uniformly gained a large percentage of metals, over its competitors, as well as a still larger percentage in the amount of work performed.

, These Pans may be seen in daily operation at the Miners, Foundry on First street, San Francisco, where all interested are invited to call and examine for themselves.

no16-tf ZENAS WHEELER.

To Quartz Miners.

ALL PERSONS INTERESTED IN MINING MACHINERY ARE invited to call at Donahue's Foundry and examine my improved Amalgamator. It is unquestionably superior to anything now known for amalgamating Silver and Gold. It works 1000 pounds at a time, and will amalgamate over three tons a day. By the motion of the revolving muller, the pulp is drawn through its centre and passes under it, between the grinding surfaces, to the circumference; from whence it passes again over the muller to the centre, through the holes and between the grinding surfaces to the circumference as before. Thus a constant circulation of the pulp is kept up, bringing the particles of ore again and again under the muller, and reducing the whole mass to an impalpable powder.

No quicksilver lies between the surfaces to be ground, but at the circumference and centre of the pan where the metal must pass through it as the pulp circulates.

A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S. Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.
sep21

To Druggists and all Prescribing for Neuralgic and Nervous Cases.—Your attention is called particularly to the efficacy of WATTS' NERVOUS ANTIDOTE for the above. Feelings of humanity, independent of pecuniary considerations, would prompt you to recommend it in all cases of Neuralgic Pains, Face Ache, from detective teeth, and the General Wasting Away and Debility of the Nervous System, if you could have the assurance that this was what it is purported to be—THE GREAT RELIABLE TRANQUILIZER AND RESTORER OF THE SYSTEM. It has been repeatedly prescribed in cases of excessive drinking, on the verge of Delirium Tremens, and even while laboring under its distressing influence, with astonishing results. It contains no preparation of Opium or Valerian, and is never accompanied with the unpleasant sensation always experienced after taking successive doses of them. It is also the best Soothing Syrup in use. Patients have taken Watts' Nervous Antidote many months in succession, and experienced no unpleasant effect whatever—while the same continued use of many other popular remedies has completely shattered the system.
For sale, Wholesale and Retail, by SAMUEL ADAMS, U. S. Drug Store, corner of Pine and Kearny Streets, San Francisco. 6v8-3m

Brown's Bronchial Troches.

"I have never changed my mind respecting them from the first, excepting to think yet better of that which I began to think well of."
REV. HENRY WARD BEECHER.
"The Troches are a staff of life to me."
PROF. EDWARD NORTH,
Pres. Hamilton College, Clinton, N. Y.
"For Throat Troubles they are specific."
N. P. WILLIS.
"Too Well known to need commendation."
HON. CHAS. A. PHELPS, Pres. Mass. Senate.
"Contain no Opium nor anything injurious."
DR. A. A. HAYES, Chemist, Boston.
"An elegant combination for Coughs."
DR. G. F. BIGELOW, Boston.
"I recommend their use to Public Speakers."
REV. E. CHAPIN.
"Most salutary relief in Bronchitis."
REV. S. SEICHRIEN, Morristown, Ohio.
"Very beneficial when suffering from colds."
REV. S. J. P. ANDERSON, St. Louis.
"Almost instant relief in the distressing labor of breathing peculiar to Asthma."
REV. A. C. EGGLESTON, New York.
"They have smiled my case exactly, relieving my throat so that I could sing with ease."
T. DECHARME
Chorister French Parish Church, Montreal.
As there are imitations be sure to obtain the genuine.
Agents for California, REDINGTON & Co., San Francisco. 14-1m

PRATER'S
PATENT CONCENTRATOR.

THE PROPRIETORS OF THIS NEW CONCENTRATOR, HAVING completed arrangements for its manufacture at the Fulton Foundry, in this city, now offers it to the public, with the fullest confidence that for the purpose for which it is designed

It Has No Equal in Use.

The principle of this machine, which is designed for a Concentrator exclusively, is entirely new. It is designed for separating finely divided quicksilver, amalgam and gold from the sands, and for concentrating and saving the sulphurets, and is to be placed behind all or any other machine in use. It is now in operation at
WHEELER & THAYER'S REDUCTION WORKS,
NORTH BEACH, SAN FRANCISCO,
To whom the Proprietors are permitted to refer, and where all interested in mining are respectfully invited to call and examine the best Concentrator in use.
This machine is now running on waste sands, from which it is taking out an average of 3½ pounds of quicksilver for each ton of sand. Orders or letters of enquiry may be addressed to
HUNGERFORD & PRATER, Proprietors.
San Francisco, April 1st, 1864. 14v8-tf

PACIFIC IRON WORKS,
First street, between Mission and Howard streets,
SAN FRANCISCO.

GODDARD & COMPANY,
—MANUFACTURERS OF—
STEAM ENGINES & BOILERS,
QUARTZ, FLOUR, SAW AND SUGAR MILLS,
AMALGAMATING PANS AND BARRELS, MINING PUMPS
AND HOISTING GEAR, WATER WHEELS,
And Machinery of Every Description.
Also furnish all kinds of Iron and Brass Casting. Only Manufacturers of the celebrated Bryan Battery. 11-tf

THE ATLAS IRON WORKS,
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STEAM ENGINES, MINING MACHINERY, QUARTZ MILLS, MINING PUMPS, AMALGAMATORS, AND ALL OTHER KINDS OF MACHINERY FOR MINING OR MILLING PURPOSES.
Castings of all Kinds,
Furnished. Our new and complete arrangements will enable us to do this kind of work in a superior manner and on the shortest notice.
Steam Engines of Scott's Patent,
Can be furnished of any size, and of high or low pressure. These Engines combine so many points of decided improvement in their simplicity of construction, and in the economy of fuel for running them, as to make them superior to all others. One can be seen in operation at the works, where all information respecting them can be obtained.
16v8 THOMAS SCOTT & CO.,

Hepburn & Peterson's
AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION OF THE Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from
Gold and Silver Ores,
Manufactured and exhibited at the Vulcan Iron Works, Nos. 137 and 139 First street, San Francisco.
These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.
[Illustrated in the Mining and Scientific Press, April 9th, 1864.]
nov8 3m* HEPBURN & PETERSON.

Mining Laws and Forms

JUST PUBLISHED, BY H. H. BANCROFT & CO., BEING A compilation of the Statutes of this State relating to Mining Corporations, Assessments, etc., with a digest of decisions of the Supreme Court and Forms of the Incorporation of Companies. Compiled by H. B. Congdon. 12mo., flexible cloth. $1,00. For sale at all the Bookstores. sep14-tf

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Have Superior Facilities for Making
MINING & MILLING MACHINERY,
A COMPLETE SET OF MACHINE TOOLS WITH
PLANER,
ENABLES ME TO DO ALL KINDS OF
MACHINE WORK AT SHORT NOTICE.
RETORTS AND INGOT MOULDS,
STAMP SHOES AND DIES,
WHEELER, VARNEY AND HEPBURN
PAN SHOES CONSTANTLY ON HAND.
Plans, Specifications, and Drawings of all kinds of Mill and Mining Machinery made at short notice, by
13 OLIVER HYDE, JR.

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Riehn, Hemme & Co.,
ASSAYERS.
☞ Assays made of Ores, Minerals and Metals. ☜
CHAS. F. RIEHN, late U. S. Branch Mint, gives lessons in Assaying, also in Mineralogy and Chemistry, as far as required to become a practical Assayer.
REFERRED with permission to Messrs. F. Parrot & Co., R. B. Swain, Esq., Messrs. Alsop & Co., Messrs. Donohoe, Ralston & Co. I

G. E. MOORE,
Assayer and Analytical Chemist,
Having established a Chemical Laboratory, furnished with every requisite for delicate Analytical work, is prepared to execute the Assay and Analysis of Ores, Mineral Waters, Guanos, etc., with accuracy and dispatch. No. 334 Montgomery Street.
REFERENCES:—Prof. J. D. Whitney, State Geologist, San Francisco; Alsop & Co., San Francisco; Sather & Church, San Francisco; John Parrott, San Francisco; D. O. Mills, Sacramento. 1tf

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Promptness and Accuracy Secured
BY THE USE OF THE MOST IMPROVED
METHODS OF ANALYSIS!
Advantageous Terms for Prospector's Clubs and Mining Companies.
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[FROM EUROPE.]
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NORTH BEACH
Quartz Mill and Reduction Works
ARE PREPARED TO WORK GOLD AND SILVER ORES, IN large or small quantities.
Working assays made of small lots, and all kinds of ores crushed at short notice.
Our new and complete Machinery, will enable us to give results fully up to the merits of rock.
WHEELER & THAYER, Proprietors.
C. C. JONES, Amalgamator.
San Francisco, Oct. 13, 1863. j2tf

HOWLAND, WOODARD & WILSON,
Copper Crushing and Grinding.
Attend to all kinds of Grinding & Crushing,
—SUCH AS—
COPPER ORES, MARBLE DUST, FIRE-BRICK DUST, DRUGS,
And Feed of all Kinds,
All of which will be Ground at the Shortest Notice.
—ALSO—
California Mineral Paint and Mineral Polishing Powder.
Works—No. 537 Market Street.
San Francisco, January 1st, 1864. 1-tf

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—IMPORTER AND DEALER IN—
Druggists' and Chemists' Glassware,
And a Full Assortment of Assayers' Articles.
—INCLUDING—
Bullion and Assay Ballances, Furnaces, Muffles, Crucibles, Cupels, Acids, Etc., Etc.
Also—A Full Assortment of Reagents.
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BEETKEN & CO'S.,
METALLURGICAL WORKS,
FOR THE REDUCTION OF
SILVER AND GOLD ORES, TAILINGS, SULPHURETS, ARENIURETS, ETC., ETC. GUPELLATIONS AND REFINING OF SILVER AND GOLD,
Practical Assays for Silver and Gold, in small and large quantities, by Smelting, Chlorination and Pan Manipulation.
WORKS—On the San Bruno Road.
OFFICE—No. 315 Montgomery St., San Francisco. 16v8-1f

Pacific
METALLURGICAL WORKS.
North Beach, San Francisco.
THE COMPANY HAVING BEEN TO A LARGE EXPENSE IN enlarging their Works, are now prepared to contract to work any quantity of Gold and Silver Rock, nearer the true assay than any other Company in this Country, or Europe.
G. T. FOUQUE, Superintendent.
S. C. BRADSHAW, JR., Secretary.
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REYNOLD'S
Patent Cut-Off and Governor,
For Steam Engines.
127 of these Invaluable Machines
ARE NOW IN USE
In California and Nevada Territory, giving a perfectly regular motion and
Saving 20 to 75 per cent of the Fuel.
Steen's Improved Governor
IS THE CHEAPEST, SIMPLEST AND QUICKEST TO ACT AND least liable to get out of order of any Governor in use. It can be seen in operation at the Golden State Iron Works, at the Stone Breaker, foot of Montgomery Street and at the Sugar Refinery, 8th Street, San Francisco.
Steam Engines, Boilers, Pipes,
Hydraulic Presses, Shafting, Pulleys, Etc., Etc., bought and sold the best market rates.
Anti-Incrustation Powder,
A sure remedy for Scale in Steam Boilers, without injury to the Iron. In use for the past EIGHT years.
☞ MACHINERY MADE AND REPAIRED. ☜
—REFER TO—
Sugar Refinery, San Francisco,
Colleli & Co., San Jose,
L. A. Booth, Esq., Virginia City,
And 2,000 others in the United States.
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SQUARZA'S PUNCH.
FIRST PREMIUM
AT THE SACRAMENTO AGRICULTUBAL STATE FAIR FOR THE YEAR 1862.
ALSO; FIRST PREMIUM
At the San Francisco Bay District Agricultural Fair, 1862.
MANUFACTORY, WHOLESALE AND RETAIL,
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j2-tf San Francisco.

THEODORE KALLENBERG,
Maker of Models for Inventors.
MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHIcal Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.
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Ore Bags.
10 000 HAND SEWED GOLD AND SILVER ORE BAGS, 100 lbs each. 15,000 Chicken Gunny Pocket Bags, suitable for Copper Ore, 125 lbs each. For sale in lots, by
REYNOLDS, HOWARD & FORD,
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Owen's River Canal Company.
CAPITAL STOCK.....$1,000,000
10,000 Shares.....$100 per Share.
A PORTION OF THIS STOCK IS NOW OFFERED TO THE PUBlic, and recommended as an investment.
Full Paid and Unassessable Stock,
Also Assessable Stock, can be obtained of A. J. DOWNER & CO., the authorized Agents of the Company,
406 Montgomery Street.
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Secretary.....W. FISK HITCHCOCK.
Treasurer.....MONTGOMERY OODLEY.
Superintendent.....WILLIAM FLEMING.
Engineer.....J. E. CLAYTON.
TRUSTEES:
R. S. WHIGHAM, formerly of Whigham's Mill,.....Nevada City.
WILLIAM FLEMING.....of San Francisco.
SYLER RIDDEL.....Paying Teller of Parrott & Co's.
ISAAC SWAIN.....of A. J. Downer & Co.
WILLIAM P. PRATT.....of Nash & Fogg.
Office of the Company 328 Montgomery Street. jltf

JOHN SCOTT,
METALLURGIC CHEMIST,
—AND—
ASSAYER OF ORES, MINERALS AND METALS,
No. 507 Jackson Street, above Montgomery, San Francisco.
WORKING ASSAYS MADE ON LARGE OR SMALL QUANTIties of Ore by the most approved methods, and instructions regarding the reduction of them, in general, given. Assaying of Ores, etc., taught, either by the wet or dry method. Silver Ores reduced by means of Electricity.
☞ Terms moderate, and all results guaranteed. 11v8-m

GEO. A. METCALF. D. S. HUTCHINSON
METCALF & HUTCHINSON'S
PHOTOGRAPHIC GALLERY,
650 Washington St. Three doors below Kearney, San Francisco.
HAVING REFITTED THE ABOVE ROOMS THE FIRM ARE now prepared to furnish the public with a superior style of Picture, at a lower price than ever before offered in the city.
CARD PICTURES.
As we have every facility for producing these beautiful picture in all their different varieties, we have reduced the price to
THREE DOLLARS PER DOZEN!
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MINING NOTICES—APRIL 23d.

Union Tunneling Company, Santa Clara District, Humboldt County, Nevada Territory.

Notice is hereby given that at meetings of the Board of Trustees of the above Company, held on the sixth day of February and on the Eleventh day of April, A. D. 1864, assessments Nos. 2 & 3 of Fifty (50) cents each, were duly levied upon each and every share of the Capital Stock, payable immediately to the Secretary at his Office in U. S. Gold & Silver coin.

The above assessments may be paid to H. H. WOOD, agent for the Company in California, at 627 Clay St., San Francisco, until the Twelfth day of May, A. D. 1864. J. J. KELLOGG. Sec'y.

Santa Clara, Humboldt County, N. T., April 12th, 1864. 17-3t

Lord Byron Gold and Silver Mining Company, Devil's Gate District, N. T.

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 16th day of April, 1864, an assessment of one dollar per share was levied upon the Capital Stock of said Company, payable on the 23d day of April, 1864, in U. S. Gold coin, to the Secretary or to R. McMURRAY, Esq., Supt. at Silver City, Nevada Territory.

Any Stock upon which said assessment shall remain unpaid on Saturday, the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 4th day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

H. B. CONGDON, Sec'y.

Office, 620 Washington St., Room No. 3. 17-4t

Silver Star Gold and Silver Mining Company, Virginia District, Storey county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 21st day of April, 1864, an Assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable on the 22d day of April, 1864, in United States gold and silver coin, to the Secretary at the office, or to Daniel Nowlan, Virginia City.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday the 8th day of June, 1864, to pay the delinquent Assessment, together with the costs of Advertising and expenses of the sale. By order of the Board of Trustees.

WM. E. MOODY, Secretary.

Office, No. 706 Montgomery street, San Francisco,

Rubicon Gold & Silver Mining Company No. 1.
Rubicon Gold & Silver Mining Company No. 2.
Rubicon Gold & Silver Mining Company No. 3.
Rubicon Gold & Silver Mining Company No. 4.—Keys District, Mono county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Companies, held on the 18th day of April, 1864, an Assessment of ten cents per share was levied upon the capital stock of said Companies, payable immediately, in U. S. gold coin, to the Secretary, at the office of the Companies, No. 302 Montgomery street, San Francisco. Any stock upon which said Assessment shall remain unpaid on Saturday, the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on FRIDAY, the 10th day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees,

J. P. VAN HAGAN, Secretary.

Office, Rooms 7 and 8, third floor, No. 302 Montgomery street, San Francisco. 17-4t

Queen of Antilles Consolidated Gold and Silver Mining and Tunnel Company, Lander county N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of March, 1864, an Assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable on the 9th day of April, 1864, in United States gold coin, to the Secretary at his office 528 Clay street, San Francisco, or to the Superintendent, H. Henderson, Austin, N. T. By order of the Board of Trustees.

G. B. LARRABEE, Secretary.

Office, 528 Clay street, San Francisco. 17-4t

Pearron Gold and Silver Mining Company, Lander County, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of March, 1864, an Assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable on the 9th of April, 1864, in United States gold coin to the Secretary at his office, 528 Clay street, San Francisco, or to the Superintendent, G. W. Leet, at Austin, Lander county, N. T. By order of the Board of Trustees.

G. B. LARRABEE, Secretary.

Office, 528 Clay street, San Francisco. 17-4t

NOTICE.

Is hereby given that from and after July 1st, 1864, the principal Office of the Savage Copper Mining Company Situated in Zinco House District Nevada County, California—will be in Lincoln, Placer County, California. A. BATEMAN, Sec'y.

17-1m Lincoln, April 18, 1864.

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PROCESS OF SILVER AND GOLD EXTRACTION, BY GUIDO Kustel, Mining Engineer and Metallurgist, former manager of the Ophir Works, &c.; 350 pages octavo illustrated.

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Sonoma Ledge Silver Mining Company, Reese River District, Nevada Territory.

Notice is hereby given, that on MONDAY, May 23d, 1864, at noon, there will be sold, at Auction, at the salesroom of Cobb & Sinton, No. 406 Montgomery street, San Francisco, a sufficient number of shares in the capital stock of the Sonoma Ledge Mining Company, standing in the names of the following persons, to pay the Assessment (No. 2) of fifty cents per share, levied September 3, 1863; the Assessment (No. 3) of one dollar per share, levied January 5, 1864; and the Assessment (No. 4) of one dollar per share, levied March 12, 1864, together with the expenses of advertising and sale, unless the same shall have been previously paid—viz:

Names.	Certifs.	Shares.	Amt.
Barnes, R.	1	25	$25
Baldwin, J. G., Jr.	74	8	8
Basler, George A.	147	5	5
Bennet, W. P.	151	4	4
Benuet, W. P.	152	3	3
Beunet, W. P.	153	3	3
Beunett, A. A.	126	8	8
Bennett, A. A	132	10	10
Benuett, A. A.	133	10	10
Burnham, R. M.	9	8	8
Burnham, R. M.	104	20	20
Clark, John W.	112	7	14
Dwarakowsky, Count	67	10	10
Dwarakowsky, Count	68	10	10
Dwarakowski, Count	69	10	10
Dumas, Charles	75	25	25
Dumas, Charles	99	25	25
Dreyfuss, Henry	16	13	13
Friedman, S.	83	9	9
Garber, John	143	15	15
Helmken, L.	73	3	6
Howell, John	134	50	50
James, John D.	22	8	8
James, John D.	49	20	20
Kinsey, Mrs. Belle	130	8	8
Maun, David	117	3	3
Miller, J. W.	81	5	10
Neymau, H. J.	31	10	10
Neyman, H. J.	32	10	10
Neyman, H. J.	33	5	5
Neyman, H. J.	71	10	10
Neyman, H. J.	72	0	5
Priugle, George C.	34	10	25
Smith, David	38	10	10
Smith, R. T.	04	10	10
Smith, R. T.	95	10	10
Smith, R. T.	96	10	10
Smith, R. T.	103	5	5
Smith, N. T.	154	5	5
Smith, N. T.	155	5	5
Smith, N. T.	156	5	5
Smith, N. T.	157	10	10
Toler, William P.	148	5	5
Wolf, Louis	43	35	36
Wolf, Louis	91	10	10
Wolf, Louis	122	11	11

By order of the Board of Trustees.

DAVID WILDER, Secretary.

17-5t No. 210 Montgomery street, San Francisco.

Bajazette Gold and Silver Mining Company, Lander County, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of March, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on the 9th day of April, 1864, in United States gold coin, to the Secretary at his office, 528 Clay street, San Francisco, or to the Superintendent, G. W. Leet, at Austin, Lander county, N. T. By order of the Board of Trustees.

G. B. LARRABEE, Secretary.

Office, 528 Clay street San Francisco. 17-4t

NOTICE.

Notice is hereby given, that, in accordance with the laws of the State of California, and the by-laws of the Rovere Gold and Silver Mining Company, there will be sold at Public Auction, at the sales room of Jerome Rice & Co., 327 Montgomery street, in the city and county of San Francisco, California, on WEDNESDAY, the 27th day of April, 1864, at 11 o'clock A. M. of said day, so many shares of the capital stock of the Company standing in the names of the following persons as will pay the assessments now due, together with cost of advertising and sale.

John W. Clark	41	shares.	$10 25
Henry Bourno	205	"	51 25
Henry Stede	5	"	1 25
Wm. B. Hull	5	"	1 25
C. F. Lincoln	100	"	25 00
Martin Durfee	100	"	25 00
15-4t	456	shares.	$114 00

By order of the Board of Trustees. H. C. KIBBE, Sec'y.

MINING AND SCIENTIFIC PRESS.

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No. 14—APRIL 2.—Physical Growth of San Francisco; Owensville Correspondence; Mill Valley; Copperopolis Correspondence; The Gold Hill Mines, Washoe; Crude Bullion; Reese River Correspondence; Keith's Desulphurizing Process; Copper in an Iron Mine near Marquette; British and American Copper Mines; The Vassar Female College; The Colorado Mines; Mining Gossip; Mining Share Remarks; Stock Reports; Washoe Stock Sales; Incorporations; Chippings and Items.

No. 15—APRIL 9, 1864.—Hepburn & Peterson's Amalgamator—illustrated; Mineral Growth of San Francisco; Owens River; Reese River Bullion; Augustin's Method of Extracting Silver from its Ores by the Use of Salt; Rock Springs District—Colorado; Mining Gossip; An Act Concerning Assessments and Advertising Delinquent Stocks; Mechanical Department—The Economy of Fuel and Heat, "An Enquirer" Once More; Patent Department—James' Gas-Lighting Invention, Drying Coal by Centrifugal Force; Desulphurizing; Glasgow School of Mines; Mining Share Market; Washoe Stock Sales; City Sales; Incorporations; Whitman Mine; Letter from Austin.

No. 16—April 16, 1864.—Contains Twenty Pages.—Wagon Road to Southern California; Nova Scotia Gold Fields; Schools of San Francisco; Facts about Gold; Valuable Suggestions; Mechanical Department; Fair of the Mechanics' Institute; Stock Reports; Sales and Bids; Mining Share Market; Washoe Stock Market; A Nickel Mine; Pine Ore; Mining Gossip; Items; Great Improvement in Engraving; Interesting Experiment; Flax; Monster Gun; Ancient Tin Trade of Britain; Washington Mining District; Reese River Mines; Reese River Letters; Sacramento; Patent Department; Incorporations; Improved Steam Valve.

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The MINING AND SCIENTIFIC PRESS comes to us enlarged to double its old dimensions, and otherwise improved. The PRESS is the only journal on this coast devoted exclusively to mining and scientific matters, and should be read by miners everywhere. It is published weekly, at $5 per year.—*Oroville Union.*

Keokuk Gold, Silver and Copper Mining Company, Office No. 322 Front Street, San Francisco, April 16, 1864.

Notice is hereby given, that in accordance with the laws of the State of California, and the by-laws of said company, and an order duly made by the Board of Trustees of the Keokuk Gold, Silver and Copper Mining Company, there will be sold at Public Auction, by Jerome Rice & Co., 327 Montgomery Street, San Francisco, on WEDNESDAY, May 25th, 1864, at 11 o'clock A. M., to the highest bidder for cash in United States gold coin, so many shares of the stock of said company, standing in the names of the following persons, or shareholders, as will be necessary for the payment of assessments duly levied thereon and still remaining due and unpaid, together with expenses of advertisement and all other expenses of sale, to wit:

Names.	No. Certif.	No. Shares.	Amt.
J. N. Peterson	383	20	$2 00
Paul Bunker	385	20	2 00
B. S. Hines	109	5	50
G. M. Smith	286, 287	50	5 00
F. P. Green	281, 282, 283	75	7 50
Wuthrich, John	111	10	1 00
Geo. Russell	134	30	3 00
W. A. White	138	10	1 00
S. D. Casey	391	100	10 00
H. Classen	178, 179	50	5 00
A. E. DuBois	152	5	50
A. Himmelman	186	30	3 00
H. H. Schafor	398	70	7 00
J. DeGroff	402	15	1 50
E. G. Matthews	208, 209	50	5 00
J. Leavett	217, 218	100	10 00
M. Butler (No. 2)	378	10	1 00
A. Dolet	457	20	2 00
E. B. Mastick	422	100	10 00
Malcolm Fisher	456	13	1 30
S. M. Tibbits		550	55 00
Mrs. A. B. Harrium	304	100	10 00
Ruth A. Taylor	311	10	1 00
Louisa Wise	193	10	1 00
E. C. Wetmore	195, 197	150	15 00
A. W. Strattou	59, 00	75	7 50
E. T. Carrique	66, 68	40	4 00
A. J. Bailey	69, 71, 72	150	15 00
A. M. Morgau	421	200	20 00
L. M. Morgan	420	200	20 00
F. L. Leech	306	50	5 00
J. H. Littlefield	407, 408, 409	100	10 00
J. A. Smith	351	5	50
J. Alexander	458	70	7 00
H. Rothschild	358	5	50
D. J. Alexander	part 168	19	1 90
R. Brackett	350, 360, 363	50	5 00
G. S. Harmon	364, 365	100	10 00
Geo. F. Sharp	425	200	20 00
B. M. Hartshorn	not issued	100	20 00
P. J. Baldwin	423	225	20 00
George Doan	part of 203 to 267	170	17 00
John Fricker	375	55	5 50
C. H. Rice	part of 98, 99, 100, 102, 104 & 5	07	9 70
G. W. Clark	381	50	5 00
C. Bruns	453	25	2 50
D. W. Patterson	254	50	5 00
Miss C. Alison	257	50	5 00
J. H. Widber	445	25	2 50
Jas. Foster	440	20	2 00
E. D. Hayes	205, 206	10	1 00

By order of the Board of Trustees.

A. B. WINEGAR, Secretary.

17-4t No. 322 Front street, San Francisco.

Office of the Cedar Gold and Silver Mining Company, Esmeralda District.—Notice is hereby given, that there is delinquent upon the following described stock, on account of assessments levied on the 28th of March, 1863, July 16th and July 17th, 1863, respectively, of fifty cents per share each, as follows:

Assessment No. 1, 50 cents per share, levied March 28th, 1863.

Names.	No. Certificates.	Shares.	Amt.
H. S. Sanders,	Stock not issued.	88	$44 00
J. R. McGinnis,	Stock not issued.	9	4 50
Amos Honlton,	27	10	5 00

Assessment No. 2, 50 cents per share, levied July 16th, 1863.

L. B. Greenman,	6, 7, 8 and 9	50	25 00
Warren Norton,	31	12	6 00
T. E. Dorr,	43 and 44	20	10 00
James W. Tilton,	Not issued.	2½	1 25
J. R. McGinnis,	Not issued.	9	4 50
H. S. Sanders,	Not issued.	88	41 00

Assessment No. 3, 50 cents per share, levied July 17th, 1863.

L. B. Greenman,	6, 7, 8 and 9	50	25 00
Warren Norton,	31	12	6 00
T. E. Dorr,	43 and 44	20	10 00
James W. Tilton,	Not issued.	2½	1 25
J. R. McGinnis,	Not issued.	9	4 50
H. S. Sanders,	Not issued.	88	44 00

And in accordance with law, and an order of the Board of Trustees, made on the 11th inst., so many shares of each parcel of said stock as may be necessary, will be sold at the auction rooms of Jerome Rice & Co., 327 Montgomery street, on MONDAY, the 16th day of May next, at 12 o'clock M., to pay the said delinquent assessments thereon, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

T. L. BIBBINS, Secretary.

Office, 302 Montgomery street, San Francisco, Cal.

April 15th, 1864. 16-4t

Golden Rule Mining Co., of Tuolumne County, Cal.—Notice is hereby given, that there is delinquent upon the following described stock, on account of assessment levied on the 3d day of March last, and assessments levied previously thereto, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certs.	Shares.	Amt.
W. F. Herrick,	159	50	$25 00
W. F. Herrick,	160	50	25 00
W. F. Herrick,	161	50	25 00
W. F. Herrick,	183	25	12 50
W. F. Herrick,	189	25	12 50
W. F. Herrick,	229	22 2-9	11 13
L. D. Ingoldsby (2 assts),	144	50	50 00
L. D. Ingoldsby (2 assts),	145	50	50 00
L. D. Ingoldsby (2 assts),	264	11 1-9	11 12
Jas. Boland (2 assts),	86	25	25 00
Jas. Boland (2 assts),	235	2 7-9	2 75

And, in accordance with law, and an order of the Board of Trustees, made on the 12th inst., so many shares of each parcel of said stock as may be necessary, will be sold by Jerome Rice & Co., public auctioneers, at their salesroom, No. 327 Montgomery street, San Francisco, on WEDNESDAY, the 18th day of May next, at 11 o'clock A. M., to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

JOHN B. RUSSELL, Secretary.

16-4t Office, 430 Jackson street, San Francisco.

We have received No 1 of the enlarged MINING AND SCIENTIFIC PRESS published by Dewey & Co., San Francisco. It is greatly improved, and gives promise of an excellent, able and reliable journal.—*Marysville Daily Appeal.*

MINING NOTICES—APRIL 16th.

Sierra Consolidated Gold and Silver Mining Company, Sierra county, Cal.—Office 302 Montgomery street, San Francisco.—Notice.—There are delinquent, upon the following described stock, on account of assessment levied on the 20th day of February, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	Shares.	Am't.
Garrett Hopper,	448, 923, 924	35	$17 50
K C Eldridge,	535, 533, 534, 536, 537	700	350
Harry Eldridge,	595	700	350
J W Jones,	477	5	2 50
Julius Thierbach,	479	10	5
P M Govern,	485, 486, 487, 721, 722, 783, 803, 889, 931, 987	930	465 00
Merrit Wellon,	492	25	12 50
E Roudel,	493	5	2 50
J Marie Journe	488, 980	50	25
Daniel Frink,	494	20	10
E F Burdick,	497, 499, 610, 611, 984	37	18 50
Wm M Newhall,	510, 518	20	10 00
H Adolphus,	520	10	5
J Beeur Martin,	596	15	7 50
W J Tilley	603	25	12 50
Mrs J R Tobias	670	10	5
T L Bibbins,	458, 462, 464	80	40
S T Walsh,	221, 222, 223, 970	50	25
Jno Ryan	229	20	10
F T Eisen,	265	350	175
Wm Bohm	339, 340, 344	20	10
Bishop Sheldon,	726, 727, 728, 729	814	157
D A McDonald	83, 84, 85	86	48
John P Sheldon,	235	10	5
Jno Harding,	251, 694	40	20
F R Baby,	188, 189, 190, 191, 1054, 1055	300	150
J F Eddy,	part of 200	16	8 00
Henry Michaels,	266	5	2 50
Chas E Murray,	269	5	2 50
Mrs Annetta M Dean,	272	25	12 50
Benjamin Dean,	273, 808	75	37 50
Mary Ekler,	261, 344	20	10
A A Susenbeth,	262, 343	40	20
Marie Garategny,	342	20	10
Placide Sevolle,	345	5	2 50
Q A Chase,	800	100	50
Timothy Canty,	675	1	50
P C Fogarty,	816	10	5
Jas McElroy,	702, 893	30	15
James Neary,	385. 421 424, 402	41	20 50
Thos W Leggett,	883, 951, 953, 973	50	25
Mrs Mary Murry,	900, 938	38	19
Mrs Johaunah Murphy	903	40	20
Geo W Osborne	905	10	5
James McCabe	912, 911	40	20
Mark W Higgins,	913, 014, 015, 916	260	130
Thos J Owens,	977	10	5
Julia Martin,	982	10	5
Wm Corcoran,	079, 1050	40	20
J L Jance,	989	5	2 50
Lsuru A Taylor,	992	140	70
H A Chase	1010	5	2 50
Donald McDonald,	998	10	5
Eliza A Delgado,	1003	5	2 50
James L Burns,	1043	5	2 50
A P Williams,	1041	10	5
Thomas Kelly,	1051	10	5
John Halpin,	1048, 1049	20	10
Mrs Dorcas Taylor,	887, 1036 1064	228	114
John Cunningham	527	10	5 00
Michael O'Neil	230	20	10 00
Arthur K Hawkins	1, 2, 3, 4, 5, 6, 7,	700	350 00
James Hawkins	10, 12, 15, 763	179	89 50
Timothy Shields	158, 160, 161, 762, 761, 760, 165. 164, 162	218	106 50
Thos O'Neil	604	5	2 50
Edward Pearson,	balance due on 719, 817	140	55 00
Q S Hagberg	183, 185, 186, 1059, 1060	100	50 00
Ed Jellings	1040	15	7 50
J C Stokes	18	25	12 50
John Todd	856	50	25 00
Mary A Stokes	30	30	15 00
F R Lewis	66, 114, 115, 116, 978	135	67 50
W C Stokes	42, 43, 44, 45, 46, 48, 49, 51, 56, 58, 59, 983, 990	193	96 50
James G Shaw	90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 101, 106, 107, 108, 109, 110, 111, 112, 113, 609	225	112 50
George Fisen		264	175 50
Frederick P. Green	709, 710, 769	80	40 00
E A Pearson	718	5	2 50
Wm Pearson	613	5	2 50
Madame Lechard	759	5	2 50
James Linen	755, 756, 757, 758, 890	230	115 00
L McNally	764	30	15
E R Stewart	766	10	5
E T Peck	767, 778	30	15
J P Thomas	777	20	10
Victor Hoffman	779	20	10
Johanna Crowley	782	20	10
Frederick Goodell	819	20	10
Malachy Naghton	808, 809, 810	500	250
O Halloran	989	2	1
Moynehan & Aitkin	793	25	12 50
Isaac Lowenstein	806	10	5
Frank McGlynn	851, 862	30	15
John Donelly	863	10	5
C Canniffe	857	5	2 50
E. B. M. Manus	866	5	2 50
C P Williams	867	50	25
John Dow	876	6	3
James M Shackey	891	20	10
Mrs Eliza Lake	894	5	2 50
Eleander Heath	901, 907, 908, 953, 909, 910, 963, 965	242	121
James Brereton	929	10	5
Geo H Hopps	962	50	25
Philip Conway	967	15	7 50
Samuel Drugan	968	15	7 50
H H Bryne	969	10	5
John A Wright	972	10	5
Edward Durkin	974	1000	500
A M Gilman	1066	10	5
S W Cory	1105, 1114, 1120, 1121, 450	125	62 50

And in accordance with law, and an order of the Board of Trustees, made on the 6th day of April, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the sales-room of John Middleton & Son, No. 400 Montgomery street, on the 16th day of May, 1864, at the hour of 12 o'clock M. of said day, to pay said delinquent assos sment thereon, together with costs of advertising and expenses of the sale.

T. L. BIBBINS, Secretary *pro tem.*

Office, 302 Montgomery street, San Francisco, Cal.

San Francisco, April 16th, 1864. 16-4t

Before Cutting the Leaves of this journal, stitch each No. through the back, or fasten with a large pin, and you will have a paper in the most convenient form possible for reading or reference

Billett Gold and Silver Mining Company—Office, 509 Clay street, San Francisco, California, April 16th, 1864.—Whereas the Board of Trustees of the Billett Gold and Silver Mining Company, at a meeting duly called and held on the 5th day of March, A. D. 1864, directed, by vote, that an assessment of twelve and one-half (12½) cents per share be, and the same was thereby levied and assessed, on each and every share of the capital stock of the said Billett Gold and Silver Mining Company, payable immediately, in gold and silver coin of the United States, and that the Secretary of the said Billett Gold and Silver Mining Company sell the delinquent stock, first advertising the same for thirty (30) days, according to law, after causing notice of said assessment to be published according to law and the by-laws of the said Company; and whereas notice of said assessment has been published according to law and the order aforesaid, and the following named shareholders have made default in the payment of said assessment in the number of shares held by them, and set against their names respectively, as follows—to wit:

	Shares.	Amount.
A. Bryant	149	$18 63
Levi Lee	30	3 75
James Lefferts	5	62
M B Miller	20	2 50
A T Nesbitt	10	1 25
James Billett	217	27 13
C A Moore	278	34 75
Josiah Butterfield	262	32 75
O H Hoag	20	2 50
W H White	42	5 25
J J Parker	5	63
W B Emerson	85	10 62
C Sherman	260	32 50
Levi Edwards	25	3 13
T G Cockrill	4	50
Mary A Fitch	5	63
James W Beavers	50	6 25
F J Beaumont	354	44 25
W H White	50	6 25
E J C Crow	10	1 25
Lizzie Nichols	12	1 50
Thomas J Isbell	50	6 25
Isaac N Crosby	50	6 25
C M Beebe	25	3 13
James Hamilton	82	10 25
John H Fowler	12	1 50
Whitehead Fowler	10	1 25
B F Nickerson	188	23 50

Now therefore, under and in pursuance of law and the order aforesaid, notice is hereby given, that so many of the shares standing in the names of the persons above mentioned respectively, as will be necessary for the payment of the assessment aforesaid, together with the expenses of advertising and other expenses of the sale, will be sold, according to law and the by-laws of the said Billet Gold and Silver Mining Company, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, in the city and county of San Francisco, California, on WEDNESDAY, the 25th day of May, A. D. 1864, at 11 o'clock A. M. of that day, unless said assessment, with accruing charges, are previously paid. By order of the Board of Trustees. (16-4t) D. B. FRANCIS, Secretary.

Mechanics Gold, Silver and Copper Mining Company's Office No. 322 Front street, San Francisco, April 16, 1864. Notice is hereby given, that in accordance with the laws of the State of California, and the by-laws of said Company, and an order duly made by the Board of Trustees of the Mechanics Gold, Silver and Copper Mining Company, there will be sold at Public Auction, by Jerome Rice & Co., 327 Montgomery street, San Francisco, on WEDNESDAY, May 18th, 1864, at 11 o'clock A. M., to the highest bidder, for cash, in United States gold coin, so many shares of the stock of said Company, standing in the names of the following persons, or shareholders, as will be necessary for the payment of as sessment No. 4, duly levied thereon, and still remaining due and unpaid, together with expenses of advertisement and all other expenses of sale, to wit:

Names.	No. Cert.	No. Shares.	Amount.
Fanny Mott	167	10	$0 50
F A Kimball	156	50	2 50
A Schwartz	—	10	50
H D Wetomore	277	10	50
Geo Tait	196	10	50
A A Sanford	428	10	50
F Gebhardt	235	5	25
Geo T Russell	—	40	2 00
S W Kimball	251	10	50
R C Francis	263	2	10
J W Bell	part of 253	5	25
J Smith	" 242	1	5
J S Bearbisley	" 29	5	25
Loring Robertson	" 313	8	40
J P Sheldon	" 115	5	25
H Wassels	213	5	25
J McCreary	232	15	75
E Swift	267	5	25
F M Kimball	252	10	50
John Ravcks	206	10	50
C Schreiber	292 to 295, 322, 323	95	4 75
Fred Carson	343	5	25
C Scheper	310	5	25
Mrs M Ilford	351	25	1 25
Mrs E G Cutter	336	5	25
G Obenauer	337	5	25
A P Olney	345	10	50
E Stratton	109 to 111, 113, 114	130	6 50
Chas Rhine	392	100	5 00
J H Turney	126	200	10 00
W B Sandall	305	40	2 00
A W Stenton	350, 351	200	10 00
Mrs M A Crosley	420	20	1 00
Geo Darry	138	25	1 25
J F Smith	228, 229	100	5 00
A H Stewart	133, 392	75	3 75
Louis Connor	278, 279	100	5 00
C K Wetmore	part of —	10	50
S D Cary	4, 312	35	5 25
Mary Murphy	147	20	1 00
Silas Fuller	106, 107	50	2 50

By order of the Board of Trustees.

A. B. WINEGAR, Secretary,
No. 322 Front street, San Francisco.

16-4t

Enterprise Tunnel & Mining Company, Reese River Mining District, Lander county, N. T.—Notice.—There is delinquent upon the following described stock in the above named Company, on account of assessment levied on the 23d day of October, 1863, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	Certificates.	Shares.	Amt.
Chas. Smith,	Nos. 81, 82, 83, 84	100	$25 00
A. Helndenhelmer,	Nos. 86, 87	50	12 50
Otto Kapuz,	Nos. 55, 56, 57, 58, 59	50	12 50
S. Reezel,	Nos. 92, 93, 94, 95	100	25 00
W. Blum,	Nos. 96, 97	50	12 50
Daniel Pouly,	Nos. 98, 99	50	12 50
G. Schmidtbury,	No. 39	10	2 50
A. Lamb,	No. 38	15	3 75
C. W. Skinner.	Nos. 108, 109	100	25 00

And in accordance with law, and an order made by the Board of Trustees on the 12th instant, so many shares of each parcel of said stock as may be necessary will be sold, at the office of the Company, in the city of San Francisco, at 12 o'clock M., on SATURDAY, the 14th day of May, 1864, to pay said delinquent assessments thereon, together with costs of advertising and expenses of sale.

J. F. STIRLING, Secretary,
No. 502 Montgomery street, Room No. 1, 3d floor.

San Francisco, April 16, 1864. 16-td

Mount Zion Gold, Silver and Copper Mining Company, Clayton District, Contra Costa county, Cal.

Whereas, the Board of Trustees of the Mt. Zion Gold, Silver and Copper Mining Company did, on the 5th day of March, 1864, levy an assessment (No. 11) of twenty-five cents upon each and every share of the capital stock of said Company, legal notice of which assessment has been given to the Stockholders thereof; and whereas, the said Board of Trustees did, on the 5th day of April inst., declare delinquent all of said assessment then remaining unpaid, and order the same advertised for sale, in accordance with the laws of the State and the by-laws of the Company; therefore, notice is hereby given, that there will be sold, at the office of the Secretary, No. 240 Montgomery street, on MONDAY, the 16th day of May, 1864, at 12 o'clock M., a sufficient number of the shares of the capital stock of said Company, standing in the names of the following Shareholders respectively, to pay the said assessment, together with the costs of advertising and sale of the same, unless said assessments and costs of advertising shall have been sooner paid, to wit:

Name.	No. Cert.	No. Shares.	Amt. Due.
Paul Shirley	160	100	$25 05
Paul Shirley	161	25	6 20
Paul Shirley	162	25	6 25
Paul Shirley	163	25	6 25
Paul Shirley	164	25	6 25
T B Storer	186	50	12 50
T B Storer	187	50	12 50
T B Storer	188	25	6 25
T B Storer	189	25	6 25
T B Storer	190	20	5 00
T B Storer	191	20	5 00
S Barrow	72	20	6 20
S Barrow	73	20	6 20
S Barrow	75	20	6 20
S Barrow	76	20	6 20
S Barrow	133	5	1 55
R Hall	122	10	2 50
R Hall	123	5	1 25
R Hall	130	15	3 75
R Hall	237	20	5 00
R Hall	257	100	25 00
R Hall	260	50	12 50
R Hall	274	25	6 25
R Hall	281	10	2 50
R Hall	282	10	2 50
R Hall	283	15	3 75
R Hall	315	2	50
F P Green	44	25	6 25
F P Green	45	25	6 25
F P Green	77	25	6 25
F P Green	112	25	6 25
P M Bowen	15	10	2 50
P M Bowen	16	10	2 50
P M Bowen	17	10	2 50
P M Bowen	18	10	2 50
P M Bowen	19	10	2 50
James Cyrus	37	25	6 25
James Cyrus, tenth assessment	37	25	5 00
H H Byrne	127	25	6 25
H H Byrne	128	25	6 25
J Bailey	272	180	45 00
R J Blanding	142	200	50 00
R H Blanding	200	200	50 00
J F Williams	104	25	5 05
E H Baxtor	189	10	2 50

16t4 A. G. WOOD, Secty.

Laurel Hill Mining Company, of Tuolumne County, California.

Notice is hereby given, that there is delinquent upon the following described stock, on account of assesment levied on the 13th day of February last, and assessments levied previously thereto, the several amounts set opposite the names of the respective Shareholders, as follows:

Names.	No. cert.	No. Shares.	Amt. due.
M Thayer	34	25	$12 50
M Thayer	59	25	12 50
M Thayer	64	25	12 50
M Thayer	65	20	10 00
M Thayer	72	6	2 50
Geo Wheeler	76	25	12 50
Geo Wheeler	77	25	12 50
C S Higgins	133	25	12 50
C S Higgins	134	25	12 50
C S Higgins	189	25	12 50
C S Higgins	190	25	12 50
W Bosworth	76	25	12 50
W Bosworth	77	25	12 50
J J Larne	169	10	5 00
J J Larne	222	20	10 00
J J Larne	223	20	10 00
R A Rowe, three assessments	154	6	7 50
F E Webster	171	25	12 50
F E Webster	183	5	2 50
A G Turner	138	50	25 00
A G Turner	241	50	25 00
J H Webster	172	50	25 00
J H Webster	204	25	12 50
T H Goodman	67	25	12 50
M Dubedat	73	5	2 50
F Wolf	89	10	5 00
M Well	127	5	2 50
P B Cornwall	142	5	2 50
J Hamblin, three assessments	153	20	30 00
J A Rawson	214	20	10 00
F W Gross	245	5	2 50
F W Gross	246	5	2 50
F W Gross	247	5	2 50
F W Gross	248	5	2 50
F W Gross	249	5	2 50
F W Gross	250	5	2 50
F W Gross	251	2	1 00

And in accordance with law, and an order of the Board of Trustees, made on the 13th inst., so many shares of each parcel of said stock as may be necessary will be sold by Jerome Rice & Co., public auctioneers, at their salesroom, No. 327 Montgomery street, San Francisco, on WEDNESDAY the 18th day of May next, at 11 o'clock A. M., to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

JOHN B. RUSSELL, Secretary.

16 Office 430 Jackson street, San Francisco.

Pride of Nevada Mining Company, Reese River Mining District, Nevada Territory.—Notice is hereby given, that, in accordance with the laws of the State of California and the by-laws of the Pride of Nevada Mining Company, there will be sold, at Public Auction, to the highest bidder, at the auction rooms of John Middleton & Son, No. 400 Montgomery street, San Francisco, on WEDNESDAY, May 18th, 1864, at 12 o'clock M., so many shares of the capital stock of said Company, standing in the names of the following persons, as will be necessary for the payment of the delinquent assessment due thereon, together with the expenso of advertisement and the other expenses of the sale—to wit:

Names.	Shares.	Amt. due.
Charles S. Eaton,	64	$32
S. C. Blake (J. Lippman),	64	32
S. Goldstein,	64	32
George W. Chapin,	64	32
Joseph Lippman,	64	32
J. Robinson,	64	balance, 12
J. D. Enos,	64	balance, 12
Isaac Lippman,	61	balance, 12
A. W. Rice,	64	balance, 12
Joseph Flcel,	64	balance, 12
William Strluger,	64	balance, 12
T. Prichard,	64	balance, 12
P. S. Hunter.	64	balance, 12

By order of the Board of Trustees. H. B. CONGDON, Sec'y.

16-4t 620 Washington street, Room 3.

Two Good Canvassing Agents can find profitable employment by calling at this office. None but active and competent men need apply.

MINING NOTICES—APRIL 23d.

Meteor Gold & Silver Mimng Company, Reese River District, Nevadn Territory,

Pontiac Gold & Silver Mining Company, Reese River District, Nevada Territory,

Hyack Gold & Silver Mining Company, Reese River District, Nevada Territory.

Butler Gold & Silver Mining Company, Reese River District, Nevada Territory.

Enterprise Gold & Silver Mining Company, Reese River District, Nevadn Territory.

Essex Gold & Silver Mining Company, Reese River District, Nevada Territory.

Notice is hereby given, that, in accordance with the laws of the Stato of California, nnd in pursuance of orders made by the respective Boards of Trustees of tho above named Compnnies, at meetings held on the 19th day of October, A. D. 1863, a sufficient numbor of shares of the capital stock of each of the above Compnnies, standing in the names of the following persons, will be sold at Public Auction, to the highest bidder, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, in the city and county of San Francisco, on WEDNESDAY, the 25th day of May, A. D. 1864, at 11 o'clock A. M. of that day, to pay Assessment No. 1, of each of them, of 20 cents per share, all levied on the 19th day of October, A. D. 1863, due and delinquent, together with all costs accruing from advertising. sale, etc., if not previously paid.

METEOR GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
Daniel Liggett	20	$4 00
E A Isaacs	166⅔	33 35
Frank Snow	166⅔	33 35
John A Weaver	66⅔	13 35
John A Weaver	70	14 00
George W Leet	101¾	20 35
W W Hartmnn	33⅓	6 67
W W Hartman	83⅓	16 67
R Smith	25	5 00
John Ellis	25	5 00
Hiram Stuteville	25	5 00
Joseph Brookshaw	41⅔	8 26

PONTIAC GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
W H Springer	212½	$42 50
R D Northey	212½	42 50
J P Ellis	170	34 00
S Scott	170	34 00
T A Waterman	42½	8 50
W C Phillips	21¼	4 25
D E Waldron	21¼	4 25

HYACK GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
H B Hixon	116	$23 20
Geo S Hnpp	25	5 00
J C Duffey	77½	15 50
E A Isaacs	92½	18 50
M J Ferrell	116	23 20
J J Rolf	155	31 00
Wm Rose	77½	15 50
W W Hartman	70	14 00

BUTLER GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
A C Langhlin	100	$20 00
J McDonough	10	2 00
J Beedo	50	10 00

ENTERPRISE GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
A C,Langhlin	96	$19 20
Ira W Dearborn	50	10 00
John McDonough	10	2 00
Robert McMillan	50	10 00
S S Greenowood	125	25 00

ESSEX GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
Joseph Davidson	25	$5 00
W W Hartman	31	6 20
Geo S Hnpp	25	5 00
S McBrown	54¾	10 88
Robert Smith	25	5 00
Hiram Stuteville	10	2 00
John Ellis	40¾	8 12

D. B. FRANCIS, Secretary.
17-4t Office, 509 Clay street, San Francisco.

Nicolaus Gold and Silver Mining Company, Reese River District, N. T.

Scottish Chief Gold and Silver Mining Company, Reese River District, N. T.

Notice is hereby given, that in accordance with the laws of the State of California, and in pursuance of orders made by the respective Boards of Trustees of the above named companies, at meetings held on the nineteenth day of October, A. n. 1863, a sufficient number of shares of the capital stock of each of the above companies standing in the names of the following persons will be sold at Public Auction to the highest bidder, at the salesroom of Jerome Rico & Co., No. 327 Montgomery Street, in the City and County of San Francisco, on WEDNESDAY, the 25th day of May, A. n. 1864, at eloven o'clock A. M. of that day, to pay assessment No. 1 of each of them of ten cents per share, all levied on the 19th day of October, A. n. 1893, duo and delinquent, together with all costs necruing from advertising sale, etc, if not previously paid:

NICOLAUS GOLD AND SILVER MINING COMPANY.

Names.	Sbares.	Amount.
W C Phillips	10	$1 00
E Hamel	37½	3 75
B Toland	36½	3 75
W W Cole	150	15 00
M G Lee	165	16 50

SCOTTISH CHIEF CONSOLIDATED TUNNEL AND MINING COMPANY.

Names.	Shares.	Amount.
J M Crump	25	$2 50
J W Davidson	25	2 50
S McBrown	157 3-11	15 75
E A Isaacs	163 7-11	16 40
W W Hartman	71 7-11	7 20
Daniel Liggett	27 3-11	2 75

D. B. FRANCIS, Secretary.
17-4t Office, 509 Clay street, San Francisco.

We have received the first number of the eighth volume of this interesting paper. It is now under the control of friend Dewey, and has been enlarged to sixteen pages. We commend it to miners, stock dealers, and others taking an interest in the development of the mineral lands of this State. It can be had for $5 a year, and if preserved will make two volumes of interesting matter, containing 416 pages each.—*Red Bluff Independent*

Samantha Consolidated Gold & Silver Mining Company, Reese River District, N. T.

Lewis Consolidated Gold & Silver Mining Company, Reese River District, N. T.

Memphis Gold & Silver Mining Company, Reese River District, N. T.

John J. Crittenden Gold & Silver Mining Company, Reese River District, N. T.

Grafton Gold & Silver Mining Company, Reese River District, N. T.

Tehama Gold & Silver Mining Company, Reese River District, N. T.

Notice is hereby given, that, in accordance with the laws of th State of California, and in pursuance of orders made by the respective Boards of Trustees of the above named Companies, at meetings held on the 19th day or October, A. D. 1863, a sufficient number of shares of the capital stock of each of the above Companies, standing in the names of the following persons, will be sold at Public Auction, to the highest bidder, at the salesroom of Jerome Rice & Company, Number 327 Montgomery street, in the city and county of San Francisco, on WEDNESDAY, the 25th day of May, A. D. 1864, at 11 o'clock A. M. of that day, to pay Assessment No. 1 of each of them, of twenty-five cents per sh aro all levied on the 19th day of October, A. D. 1863, duo and delinquent, together with aB costs accruing from advertising, sale, tc., If no, previously paid.

SAMANTHA CONSOLIDATED GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount5
Geo S Croft	25	$6 20
Geo S Hupp	20	5 05
J W Wilson	25	6 20
John Ridgway	50	12 50
Alpheus Bull	400	100 05
Wm R Young	25	6 20
Geo W Leet	450	112 50
M Liggett	300	75 00
J M McClond	150	37 50
Wm Coverdill	114	28 50
J S Currie	360	90 00
E A Isaacs	350	87 50
W L Buchtal	50	12 50
Wm Ellis	10	2 50
John Garber	10	2 50
W W Hartman	40	10 00
W W Hartman	165	41 25
J McCabe	10	2 50

LEWIS CONSOLIDATED.

Names.	Shares.	Amount.
John Hill	50	$12 50
S McBrown	85	8 75
W W Hartman	175	43 75
John A Weaver	400	100 00
W W Hartman	96	24 00
R Smith	33	8 25
R Hntebins	25	6 25

MEMPHIS GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
B B Cathrae	50	$12 50
Joseph W Davidson	25	6 25
Wm Coverdill	20	5 00
Charles Sharp	20 10-12	5 20
Henry Easter	20 10-12	5 20
S McBrown	129 2-12	32 30
Geo W Leet	23½	5 83
J M Crump	166⅔	41 67
Frank Snow	166⅔	41 67
J A Weaver	166⅔	41 67
J McBrown	129 2-12	32 30

JOHN J. CRITTENDEN GOLD AND SILVER MINING CO.

Names.	Shares.	Amount.
Frank Snow	85	$21 25
W W Hartman	2	50
John Hucbins	10	2 60
C Nixon	25	6 25

GRAFTON GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
S Redfield	5	$1 25
J P Lee	125	31 25
S W Lee	150	37 50
W W Colo	90	22 50
John Nickerson	10	2 50

TEHAMA GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
E A Titus	150	$37 50
M G Lee	140	35 00
G D Frazee	150	37 50

D. B. FRANCIS, Secretary.
17-4t Office, 509 Clay street, San Francisco.

Sonoma County Gold, Silver and Copper Mining Company, Cloverdale District, Sonoma county, California.

NOTICE.—There are delinquent, upon the following described stock, on account of Assessment levied on the 15th day of January, 1864, the several amounts set opposite the names of the respective shareholders, as foBows:

Names.	No. Certificate.	No. Shares.	Amt.
W. S. Pearson	100	$10 00
G. P. Swift	75, 76, 77, 78, 79, 80, 81, 82	208	20 80
E. Swift (4th & 5th asst)	11, 61, 62, 64, 89	221	44 20
H. A. Thomas (4th and 5th asst)	55	8	1 60
H. T. Graves (4th and 5th asst)	9	10	2 00

And in accordance with law, and an order of the Board of Trustees, made on the 14th day of April, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Jerome Rico & Co., on the 16th day of May, 1864, at the hour of 11 o'clock A. M. of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the salo.

A. B. GRAVES, Secretary.
17-4t Office, 412 Clay street, San Francisco, Cal.

Whitton Gold and Silver Mining Company, Silver Mountain, Alpine county, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 20th day of April, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable immediately to the Secretary, J. Warren Clark, 430 Montgomery street, San Francisco, (Room No. 5, 3d floor) or to S. A. Bartlett, Treasurer, Silver Mountain.

Any stock upon which said Assessment shall remain unpaid on the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 9th day of June, 1864, to pay the delinquent Assessment, together with the costs of Advertising and expenses of sale. By order of the Board of Trustees.

J. WARREN CLARK, Secretary.
Office, 430 Montgomery street, San Francisco. 17

Rubicon Gold & Silver Mining Company No. 1.— Location of mine, Keys District, Owens River, Mono county, California.

Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Rubicon Gold and Silver Mining Company No. 1, there will be sold, at Public Auction, to the highest bidder, for cash, in United States gold coin, on the 24th day of May, 1864, at 11 o'clock A. M. of that day, at the office of the Company, No. 7 and 8, third floor, No. 302 Montgomery street, San Francisco, so many shares of the capital stock of the Company standing in the names of the following persons, or shareholders, as will be necessary for the payment of Assessment No. 4, of ten (10) cents per share, duly levied thereon February 27th, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said assessment and accruing charges are previously paid.

Names.	No. Asst.	Certif.	Shares.	Due.
Adam Bland	4	no cer	180	balauce, $11 25
Henry Bush	4	no cer	180	18 00
Sarah Cook	4	42	25	balauco, 1 56
Sarah Cook	4	no cer	166	balauce, 9 08
W. P. Carter	4	no cer	90	9 00
W. G. Davis	4	535	55	5 50
W. G. Davis	4	646	25	2 50
W. G. Davis	4	647	25	2 50
W. G. Davis	4	648	25	2 50
W. G. Davis	4	649	25	2 50
W. G. Davis	4	650	25	2 50
W. G. Davis	4	653	25	2 50
W. G. Davis	4	738	14	1 40
W. G. Davis	4	no cer	150	15 00
Philo Doud	4	638	10	balance, 62
Philo Doud	4	639	10	balance, 62
Philo Doud	4	no cer	160	balauce, 10 00
Wesley Diggings	4	no cer	1800	180 00
A. M. Gemmg	4	no cer	180	balance, 11 25
Rienzi Hughes	4	98	10	balauce, 62
Rienzi Hughes	4	99	10	balauce, 62
Rienzi Hughes	4	101	10	balauco, 62
Rienzi Hughes	4	104	5	balance, 31
Rienzi Hughes	4	106	5	balauce, 31
John Jeffress	4	244	15	balauco, 94
John Jeffress	4	274	7	balance, 44
John Jeffress	4	275	7	balance, 44
John Jeffress	4	276	14	balance, 88
John Jeffress	4	no cer	116	balance, 7 25
John Kneedler	4	278	14	balance, 88
John Kneedler	4	270	50	balauco, 3 13
John Kneedler	4	382	6	balance, 38
John Kneedler	4	no cer	85	balance, 5 31
M. H. Kimball	4	no cer	90	0 00
A. J. Lovejoy	4	75	25	1 56
A. J. Lovejoy	4	296	132	85
Levi C. Lane	4	21	100	balauce, 6 26
Levi C. Lane	4	22	25	balance, 1 56
D. H. Mitchell	4	1	125	balauce, 11 56
D. H. Mitchell	4	255	30	balance, 37
D. H. Mitchell	4	487	10	balance, 93
D. H. Mitchell	4	491	14	balauce, 1 30
D. H. Mitchell	4	492	10	balance, 93
E. H. Mitchell	4	597	25	balauce, 2 31
D. H. Mitchell	4	598	25	balance, 2 31
D. H. Mitchell	4	599	25	balauce, 2 31
D. H. Mitchell	4	600	25	balauce, 2 31
D. H. Mitchell	4	601	25	balance, 2 31
D. H. Mitchell	4	602	25	balance, 2 31
D. H. Mitchell	4	603	25	balance, 2 31
D. H. Mitchell	4	604	25	balauce, 2 31
D. H. Mitchell	4	605	14	balauce, 1 30
D. H. Mitchell	4	606	14	balauce, 1 30
D. H. Mitchell	4	607	14	balauce, 1 30
D. H. Mitchell	4	608	14	balauce, 1 30
D. H. Mitchell	4	609	14	balauce, 1 30
D. H. Mitchell	4	611	11	balauce, 1 02
D. H. Mitchell	4	656	30	balauce, 2 78
D. H. Mitchell	4	657	30	balauce, 2 78
D. H. Mitchell	4	658	30	balauce, 2 78
W. J. Martin	4	no cer	180	18 00
J. W. Myrick	4	no cer	180	18 00
M. M. Miller	4	027	180	18 00
Jas. O'Connell	4	289	0	balauce, 56
Jas. O'Connell	4	290	50	balauce, 3 13
Jas. O'Connell	4	291	50	balauce, 3 15
Jas. O'Connell	4	292	25	balauce, 1 56
Jas. O'Connell	4	293	25	balauce, 1 56
Jas. O'Connell	4	294	21	balauce, 1 31
Thos. H. Porter	4	188	12	balauce, 75
Thos. H. Porter	4	no cer	126	balauce, 7 88
John Reynolds	4	no cer	540	54 00
L. Richards	4	400	90	balauce, 4 72
Wm. Smith	4	228	30	balauce, 1 88
Wm. Smith	4	2 9	25	balauce, 1 50
Wm Smith	4	230	25	balauce, 1 56
Wm. Smith	4	231	25	balauce, 1 56
Wm. Smith	4	2 2	25	balauce, 1 56
Wm. Smith	4	233	25	balauce, 1 56
Wm Smith	4	234	25	balauce, 1 56
O. W. Spencer	4	662	50	5 00
O. W. Spencer	4	674	21	2 10
O. W. Spencer	4	no cer	1654	165 40
F. Shoemaker	4	nu cer	90	9 00
Jos. Ware	4	715	14	balance, 88
Jos. Ware	4	714	14	balance, 88
Jos. Ware	4	no cer	190	balauce, 11 88

By order of the Board of Trustees.

J. P. VAN HAGEN, Secretary,
Office, No. 302 Montgomery street, No. 7 and 8, 3d floor.
San Francisco, April 22, 1864. 17-4t

Dane Gold and Silver Mining Company, Esmeralda District, Novada Territory.

Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the above named Company, at a meeting held at the office of the Company, on the 18th day of April, 1864, there will be sold at Public Auction, at the office of said Company, No. 224 Montgomery street, San Francisco, on the 25th day of May, A. D. 1864, at 12 o'clock M., to the highest bidder, for cash, in U. S. gold coin, so many shares of the capital stock of said Company, standing in the names of the following persons, as will be necessary for the payment of Assessment No. 4, of fifty cents per share, duly levied thereon by the Board of Trustees, on the 8th day of March, A. D. 1864, together with cost of advertising and expenses of sale, unless said assessment and charges are sooner paid.

Name.	No. certs.	No. shs.	Amt.
James H. Deering	23	75	$37 50
Jesse Richardson	3	10	5 00
M. L. Citron	25	10	5 00
P. J. Barber	41	10	5 00
Adam Ross	44	10	5 00
Mrs. H. C. Bull	47	5	2 50
W. H. Forbes	58	10	5 00
W. H. Harnden	71	10	5 00
Larkin Smith	74, 75	45	22 50

By order of the Board of Trustees.
17-3t WM. T. ATWOOD, Secretary.

Burgess Silver Mining, Company Reese River District, Nevada Territory.

Belle Creole Silver Mining Company, Reese River District, Nevada Territory.

Olive Branch Silver Mining Company, Reese River District, Nevada Territory.

Swift Silver Mining Company, Reese River District, Nevada Territory.

Paul Silver Mining Company, Reese River District, Nevada Territory.

Notice is hereby given, that in accordance with the laws of the State of California, and in pursuance of orders made by the respective Boards of Trustees of the above named Companies, at meetings held on the 1st day of April, A. D. 1864, a sufficient number of shares of the capital stock of each of the above named Companies standing in the names of the following persons will be sold at Public Auction, to the highest bidder, at the office of those Companies, No. 221 Montgomery street, San Francisco, on the fifth day of May, A. D. 1864, at 11 o'clock A. M., as will pay Assessment No. 1, of each of them, of twenty-five cents, all levied on the 23d of November, A. D. 1863, and Assessment No. 2, of each of them, of one dollar all levied on the 26th day of February, A. D. 1864, due and delinquent thereon, together with all costs accruing from advertising, sale etc, if not previously paid:

BURGESS COMPANY.

Name.	No. Certs.	No. Shares.	Asst. No. 1.	Asst. No. 2.	Total
Sarah A. Bull	4	25		$25 00	$25 00
S. H. Pierce	5	10	2 50	10 00	12 50
George Swift	2 and 3	15	3 75	15 00	18 75
H. Burgess	12	173	43 25	173 00	216 25
F. H. Dole	22	187		187 00	187 00
Eug. Cazalis	20 and 24	75		75 00	75 00
Belinda Fowler	1	10	2 50	10 00	12 50
J. F. Michel	7	10	2 50	10 00	12 50

SWIFT COMPANY.

George Swift	3, 4 and 33	No. 1—81 / No. 2—81	20 25	31 00	51 25
James Flitton	32	86	21 50	86 00	107 50
H. Burgess	31	86	21 50	86 00	107 50
C. D. Caven	7	23	5 75	23 00	28 75
Robert E. Lowery	22, 23, 24, 25	No. 1—6 / No. 2—86	1 50	86 00	87 50
John Croyland	26, 27, 28, 29	43	10 75	43 00	53 75
Belinda Fowler	1	10		10 00	10 00
G. H. Kellogg	6	10		10 00	10 00
J. F. Michel	8	10		10 00	10 00
Chas. McConnell	2	10		10 00	10 00
W. W. Tinker	5	10		10 00	10 00
E. Ernest	9, 10, 11, 12, 13 / 14, 15, 16, 17, 18	86		86 00	86 00
D. Deeth	30	5		5 00	5 00

BELLE CREOLE COMPANY.

R. E. Lowery	13, 14, 15, 16, 17 / 18, 19, 20, 21	161		161 25	161 25
Chas. D Caven	8	84	21 03	84 00	105 00
John Croyland	22, 23, 24, 25	175	43 75	175 00	218 75
S. A. Murdock	28	175	43 75	175 00	218 75
T. O. Jackson	29	88	22 00	88 00	110 00
Geo. Swift	3, 4 and 27	No. 1—82 / No. 2—47	20 50	47 00	67 50
Sarah A. Bull	5	25		25 00	25 00
Octavia W. Pray	1	5		5 00	5 00
J. N. Traverse	2	10		10 00	10 00
C. W. Kellogg	6	10		10 00	10 00
J. F. Michel	9	10		10 00	10 00
D. Deeth	25	5		5 00	5 00

OLIVE BRANCH COMPANY.

Chas. D. Caven	9	83	20 75	83 00	103 75
Robert E. Lowery	14, 15, 16, 17	No. 1—65 / No. 2—85	15 25	85 00	101 25
J. P. Tiernan	20	85	21 25	85 00	105 25
S. A. Murdock	21	85	21 25	85 00	106 25
George Swift	4, 5 and 19	No. 1—80 / No. 2—30	20 00	30 00	50 00
C. E. Blake	1	10		10 00	10 00
Chas. McConnell	2	10		10 00	10 00
W. W. Tinker	3	10		10 00	10 00
Chas. McHenry	7	10		10 00	10 00
Sarah A. Bull	6	25		25 00	25 00
J. F. Michel	10	10		10 00	10 00
D. Deeth	18	5		5 00	5 00

PAUL COMPANY.

John Croyland	12, 13, 14, 15	174	43 50	174 00	217 50
S. A. Murdock	17	22	5 50	22 00	27 50
C. D. Caven	7	68	17 00	68 00	85 00
George Swift	2, 3, 18	No. 1—164 / No. 2—139	42 25	139 00	181 25
H. Burgess	19	174	43 50	174 00	217 50
Sarah A. Bull	4	25		25 00	25 00
C. E. Blake	1	10		10 00	10 00
Thos. Lindham	5	10		10 00	10 00
J. F. Michel	8	10		10 00	10 00
D. Deeth	16	5		5 00	5 00

By order of the Boards of Trustees.

15-5t WM. T. ATWOOD, Secretary.

Cloverdale Mining Company, Sonoma County, California—Office, 430 Montgomery street, San Francisco.—Notice is hereby given, that in accordance with the laws of the State of California, the by-laws of the Company, and an order duly made by the Board of Trustees of the Cloverdale Mining Company, on the 31st of March, 1864, there will be sold at Public Auction, to the highest bidder for cash, in United States gold coin, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on WEDNESDAY, the 4th day of May, 1864, at 11 o'clock A. M., so many shares of the capital stock of said company, standing in the names of the following persons, as will be necessary for the payment of all delinquent assessments thereon, together with the expense of advertising and sale, unless the same are previously paid:

Names.	No. Asst.	No. Cert.	No. Shs.	Am't
T. T. Bradshaw	3	—	90	$10 00
H. Ellis	3	139	10	2 50
H. Ellis	3	140	10	2 50
H. Ellis	3	141	10	2 50
H. Ellis	3	143	10	2 50
J. W. Henderson	3	77	5	1 25
J. J. Haley	3	—	100	25 00
M. Worner	2 and 3		10	5 00
J. H. Whitman	2 and 3		4	2 00
— Mellon	3	144	2	50

15-4t M. WINN, Secretary.

Silver Star Gold and Silver Mining Company.—Office No. 706 Montgomery street, San Francisco.

Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Silver Star Gold and Silver Mining Company, there will be sold, at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on WEDNESDAY, May 25th, 1864, at 11 o'clock A. M. of that day, to the highest bidder, for cash, in U. S. gold coin, so many shares of the capital stock of said Company, standing in the names of the following shareholders, as will be necessary to pay the Assessments duly levied thereon, and now being due and unpaid, together with the expenses of advertising and sale—to wit:

Names.	No. of Certifs.	No. of Shares.	No. of Assts.	Amt.
Henry Gerke —118 to 124, 126 to 135, 137 to 145, 245		510	3 & 4	$549 00
Sol A. Sharp	221	50	3 & 4	45 00
A. J. Banker	317	20	4	10 00
E. Chaquette	315	25	4	12 50

By order of the Board of Trustees.

17-4t WM. E. MOODY, Secretary.

Ida Gold and Silver Mining Company, Ross District, Tulare county, California.—Notice is hereby given, that on SATURDAY, May 14th, 1864, at noon, there will be sold, at Auction at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, a sufficient number of shares in the capital stock of the Ida Gold and Silver Mining Company, standing in the names of the following persons, to pay the Assessment (No. 6) of one dollar per share, levied December 2, 1863, and the Assessment (No. 7) of two dollars per share, levied March 2, 1864, together with the expenses of advertising and sale, unless the same shall have been previously paid—viz:

Names.	Certificates.	Shares.	Am't.
Allen, R. K.	411	10	$20
Allmas, Blanche E.	334	2	4
Braly, M. A.	299	12	24
Bellows, Horace	545	4	12
Browning, Jacob	201	5	10
Cooke, Thomas	402	5	10
Dannenberg, Joseph	344	5	10
Davis, Henry L.	339	5	10
Davis William	410	20	40
Gray, Wm. J.	330	6	10
Gray, Wm. J.	431	14	28
Gray, Wm. J.	435	1	2
Gregg, Stephen	493	10	30
Green, H.	108	20	40
Green, H.	281	20	40
Greenwood, M.	208	3	6
Hafner, John	64	100	200
Haley, John J.	373	20	40
Hadler, Claus	508	5	10
Hermann, Charles	567	11	22
Hermann, Charles	287	5	10
Hermann, Charles	296	5	10
Hermann, Charles	466	14	28
Hermann, Charles	468	10	20
Hemenway, H. C.	459	6	12
Heath, James	319	2	4
Heath, James	409	12	24
Heath, James	539	6	12
Hitchings, Miss L. F.	430	2	4
Hodge, B. O.	6	5	10
Hodge, B. O.	7	5	10
Hodge, B. O.	8	5	10
Hodge, B. O.	187	5	10
Hodge, B. O.	242	2	6
Hopkins, M.	575	9	27
Ida Mill & Mining Co.	564	8	24
Johnson, P. R.	577	3	6
Kellogg, James	223	10	20
Kellogg, James	235	8	16
Kellogg, James	278	18	36
Kellogg, James	457	50	100
Lewis, R. P.	374	2	6
Longley, J. P.	384	4	8
Lovejoy, R. B.	209	3	9
Lyles, P. W.	293	25	50
Mathews, Oscar L.	548	5	15
Matthews, Oscar L.	550	5	15
McInerney, Thomas	447	5	10
Miller, Leopold	171	5	10
Miller, Leopold	329	5	10
Miller, Leopold	367	5	10
Miller, Leopold	404	5	10
Miller, Leopold	405	2	4
Miller, Leopold	436	2	4
Miller, Leopold	476	8	16
Moulthrop, J. L.	472	10	20
Pratt, W. P.	155	8	16
Pratt, W. P.	428	10	20
Pratt, W. P.	429	8	16
Rand, D. H.	538	6	12
Roll, John	172	5	15
Roll, John	337	5	15
Roll, John	470	10	20
Schleicher, Jacob	387	5	10
Thomas, Charles	388	5	10
Sperry, James A.	525	25	50
Sperry, James A.	5.5	10	20
Sperry, James A.	5 7	12	24
Silverthorn, W. H.	78	4	8
Silverthorn, W. H.	140	3	6
Swigert, Addison	363	2	4
Schmolz, William	206	10	20
Scudder, Francis V.	485	5	10
Scudder, Francis V.	517	5	10
Taylor, John	578	2	6
Trenkle, Emil	236	10	20
Trenkle, Emil	235	10	20
Wallack, D.	77	6	10
Walters, G. F.	546	5	10
Wheeler, Zenas	127	4	8
Whitney, J. P.	443	20	40
Wiltram, Charles	210	20	40
Whitson, B. F.	487	25	50
Wood, Joseph	107	7	14
Wood, Joseph	376	2	4
Wuthrich, John	370	40	80
Wynkoop, George C.	58	8	15
Yentes, John L.	49	2	5

By order of the Board of Trustees.

DAVID WILDER, Secretary,

15-td No. 220 Montgomery street, San Francisco.

Saxon Copper Mining Company, Calaveras Co., Cal.—Notice is hereby given that in accordance with the laws of the State of California and an order duly made by the Board of Trustees of this Company, there will be sold at Public Auction at the office of the Company, at Copperopolis, on the 10th day of May, A. D. 1864, at three o'clock, p. m. of that day, to the highest bidder, for cash, in United States gold coin, so many shares of the capital stock of said Company standing in the names of the following shareholders as will be necessary for the payment of the assessments duly levied thereon by the Board of Trustees, together with the expense of advertisement and sale, unless said assessment and charges are paid before said sale.

Names.	No. Certificates.	Shares.	Amt.
Thomas H. Binnix,	3	50	23 50
Thomas H. Binnix,	63	50	23 50
Thomas H. Binnix,	64	100	47 00
Thomas H. Binnix,	75	50	23 50
Thomas H. Binnix,	76	10	4 70
Thomas H. Binnix,	77	10	4 70
Thomas H. Binnix,	78	10	4 70
Thomas H. Binnix,	79	10	4 70
J. H. Titcomb,	24	100	47 00
J. H. Titcomb,	27	25	11 75
J. H. Titcomb,	28	25	11 75
A. D. Titcomb,	84	25	11 75
J. S. Coleman,	45	25	7 50
J. S. Coleman,	46	25	7 50
J. S. Coleman,	47	25	7 50
J. S. Coleman,	48	25	7 50
J. S. Coleman,	50	10	3 00
J. S. Coleman,	51	10	3 00
J. S. Coleman,	52	10	3 00
J. S. Coleman,	73	5	1 50
J. S. Coleman,	74	5	1 50
M. R. Garrard,	87	50	44 50
M. R. Garrard,	88	50	44 50
M. R. Garrard,	89	50	44 50

By order of the Board of Trustees.

16-4t L. HONIGSBERGER, Sec'y.

Office of the Henry and Bernard Consolidated Gold, Silver and Copper Mining Company.

WANTED.—Proposals for runing a tunnel, from 130 to 150 feet, into a claim owned by the Henry & Bernard Consolidated Gold, Silver & Copper Mining Company, situated in Weaver district, Arizona Territory, about 10 miles from Olive City. For description of the ground and specifications, Apply to I. M. Blood, General Superintendent, at the Office of the Company, No. 334 Montgomery street, San Francisco, from 10 to 11 o'clock, A. M.

16v8-4t GEO. W. GILDERSLEIVE, Sec'y

Office of the Eureka Mining Company, Location of Works, Mineral Spring Mining district, County of Calaveras and State of California.

Notice is hereby given, that at a meeting of the Trustees of said Company, held on the 12th day of April, 1864, an Assessment of 20 cents per share was levied upon the Capital Stock of said Company, payable on the 16th day of April 1864 in United States Gold Coin, to the Secretary, at the Office of the Company, No. 625 Clay St., San Francisco, California.

Any stock upon which said Assessment shall remain unpaid on the 14th day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 30th day of May, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale.

C. W. HAYDEN, Sec'y.

Office, at No. 625 Clay Street, San Francisco, California. 16-4t

Rose Linda Mining & Manufacturing Company, Mokelumne Mining District, Amador County, Cal.—Notice is hereby given that at a meeting of the Trustees of the above Company, held on the 11th day of April, 1864, an assessment of Fifty (50) cents per share was levied upon the Capital Stock of said Company, payable in Gold and Silver coin on the 11th day of May next, to the Secretary, at the Office of the Company, 509 Clay St., Room No. 2.

Any Stock upon which said assessment shall remain unpaid on the 11th day of May next, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 26th day of May 1864, at the Office of the Company 509 Clay St., to pay the delinquent assessment, together with the costs of advertising and expenses of sale. HENRY HALE, Sec'y.

San Francisco, April 11th, 1864, 16-4t

Mammoth Gold and Silver Mining Company, Reed Spring District, San Bernardino Co.

Notice is hereby given that at a Meeting of the Board of Trustees of said Company, held on the 13th day of April, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on the 15th day of April, 1864, in United States gold and silver coin, to the Secretary, or to Wm. H. Hilton, Superintendent, at the mine.

Any stock upon which said Assessment shall remain unpaid on the 14th day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 28th day of May, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

GEORGE BOWER, Secretary.

Office, No. 611 Clay street, San Francisco. 16-td

Butte Gold and Silver Mining Company, Reese River Mining District, Lander Co., N. T.

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 16th day of April, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on the 16th day of May, 1864, in United States gold and silver coin, to the Secretary, or to Dr. A. K. Stearns, Superintendent of the mine, at Austin, N. T.

Any stock upon which said Assessment shall remain unpaid on Saturday the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 4th day of June, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale, By order of the Board of Trustees.

J. F. STIRLING, Secretary.

Office, 502 Montgomery street, San Francisco. 15-4t

Revere Gold & Silver Mining Company, Reese River Mining District.—Office No. 22 Lyceum Building, San Francisco February 23d, 1864.—Notice is hereby given that an assessment of Twenty-five cents per share was this day levied on each and every share of the Capital Stock of the above named Company, payable immediately in U. S. Gold Coin, to the Secretary, at the Office of the Company. By order of the Board of Trustees.

15-4t. H. C. KIBBE, Sec'y.

Rock Rose Gold and Silver Mining Company, Gold Hill, N. T.—Office 605 Sacramento street, San Francisco, April 5th, 1864.—Notice is hereby given, that at a meeting of the Board of Trustees of the Rock Rose Gold and Silver Mining Company, held at the office of said Company, this day, there was duly levied an assessment of twenty-five cents on each and every share of the capital stock of said Company, payable immediately, in gold coin, to the Secretary, at the office of the Company, or to R. H. Nason, Superintendent, at the mine. By order of the Board of Trustees.

15-4t S. C. GARDNER, Secretary.

Prima Donna Gold and Silver Mining Company, Devil's Gate District, N. T.—Notice is hereby given, that the Board of Trustees of the Prima Donna Gold and Silver Mining Company, at a meeting held April 2d, 1864, levied an assessment of .5) of fifty cents o each and every share of the capital stock of said Company; said a ssment payable immediately, in gold coin, to the Secretary, at 520 Washington street, San Francisco, or to Franklin Morgan, Superintendent, at Silver City, N. T.

15-4t H. B. CONGDON, Secretary.

Revere Gold and Silver Mining Company.—Notice is hereby given, that at a meeting of the Board of Trustees of the Revere Gold and Silver Mining Company, held this 25th day of March, 1864, an assessment of one dollar and fifty cents ($1.50) per share was levied upon each and every share of the capital stock of said Company, to be paid immediately, in United States gold coin, to the Secretary, at his office, northwest corner of Washington and Montgomery streets, in the city and county of San Francisco, California. By order of the Board of Trustees.

15-5t H. C. KIBBE, Secretary.

Index Mining Company (Location, Copper Canon District, Copperopolis, Cal.)—Office, 415 Montgomery street, San Francisco, March 30, 1864.—Notice is hereby given, that at a meeting of the Board of Trustees of the Index Mining Company, held March 23, 1864, an Assessment of fifty cents per share was levied upon the capital stock of the Company, and made due and payable immediately, in U. S. coin, to the Secretary, at the office of the Company. Certificates of stock are now ready for delivery on payment of this assessment.

☞ The first annual meeting of the Stockholders of the Index Mining Company will be held at the office of the Company on SATURDAY EVENING, APRIL 30, 1864, at 8 o'clock, for the adoption of by-laws, election of Trustees for the ensuing year, etc. By order of the Board of Trustees. [11-5t] RICHARD C. ALDEN, Sec'y.

MINING NOTICES—APRIL 30th.

Scorpion Silver Mining Company, Virginia

District, Nevada Territory.

Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Scorpion Silver Mining Company, there will be sold, at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery St., San Francisco, on Saturday, May 23, 1864, at 11 o'clock A. M. of that day, to the highest bidder for cash, in U. S. coin, so many shares of the capital stock of said Company, standing in the names of the following shareholders, as will be necessary for the paymen. of an assessment of twenty-five cents per share, duly levied thereon, by the Board of Trustees, on the 21st day of March, A. D. 1864, and assessments previous thereto, together with the expenses of advertisement and sale, to wit:

Names.	Shares.	Assessments—No 20	No 21	No 22	No 23	No 24	No 25	Amt due.
E F Arnold	5						$1 25	$1 25
B Bayerque	12						3 00	3 00
J L Bufford	59				14 75	14 75	14 75	44 25
S F Bufford	24						6 00	6 00
C Brond	10						2 50	2 50
F Boilleau	10			2 50	2 50	2 50	2 50	10 00
Mrs L G Baker	10		2 50	2 50	2 50	2 50	2 50	12 50
S E Barnard	1			25	25	25	25	1 00
Rebecca Bones	4					1 00	1 00	2 00
S L Cofran	20		5 00	5 00	5 00	5 00	5 00	25 00
L Chopard	2				50	50	50	1 50
L E Coleman	2					50	50	1 00
Chas Clayton	5						1 25	1 25
C Chevallier	16				4 00	4 00	4 00	12 00
P Crozet	19						4 75	4 75
W D Dyer	12			3 00	3 00	3 00	3 00	12 00
— Deutsch	3						75	75
A Esuault	24						6 00	6 00
M Eldred Jr	115						28 75	28 75
A Fluance	50						12 50	12 50
E D Feusier	8			50	50	50	2 00	3 50
H Feusier	4						1 00	1 00
C Gignoux	10						2 50	2 50
A Gorfinkle	5						1 25	1 25
F Henderson	228				57 00	57 00	57 00	171 00
J F Helmken	10						2 50	2 50
H Hentsch	10			2 50	2 50	2 50	2 50	10 00
B A Hendrickson	5						1 25	1 25
L Heywood	5						1 25	1 25
J R Hughes	12				3 00	3 00	3 00	9 00
N T Johnson	12			2 50			2 50	5 00
John Kelly	29				6 00	12 25	12 25	30 50
J B Lafargue	2			50	50	50	50	2 00
A J McCabe	100					25 00	25 00	50 00
W W Morgan	2			50	50	50	50	2 00
John McKewen	9						2 25	2 25
John Paine	3	75	75	75	75	75	75	4 50
Emeline A Paine	3	75	75	75	75	75	75	5 50
M Pratt	3						50	50
P Robinson	100						25 00	25 00
Robt Sherwood	200						50 00	50 00
Herman Smith	10						2 50	2 50
Emma R Scheper	1						25	25
P G Venard	24					5 00	6 00	12 00
Henry Vollars	5						1 25	1 25
G Venard	20					5 00	5 00	10 00
E D Waters	12						3 00	3 00
Eliza A Waters	12						3 00	3 00
Ella Waters	1						25	25

By order of the Trustees.

W. H. MARTIN, Secretary.

San Francisco, April 28, 1864. (18-4t) 627 Clay street.

La Palma Silver Mining Company,

Locality of Mine, District of Ures, State of Sonora, Mexico.

Notice.—There are delinquent, upon the following described stock on account of assessment No. 2, levied February 13th, 1864, and as, sessment No. 3, levied on the 25th day of March, 1864, the several amounts set opposite the names of the respective shareholders as follows:

Names.	Asst.	No. Cert.	No. Shs.	Amt.
J. O'Dell	3	19	20	$20 00
J. O'Dell	3	10	20	40 00
F. Dodge	2	20	20	20 00
F. Dodge	3	20	20	40 00
Henry Chester	2	21	10	10 00
Henry Chester	3	21	10	20 00
Thos. Miller	2	23	10	10 00
Thos. Miller	3	23	10	20 00
W. C. McElharan	2	25	10	10 00
W. C. McElharan	3	25	10	20 00
David Fogerty	3	26	10	10 00
David Fogerty	3	26	10	20 00
John Lockwood	2	29	5	5 00
John Lockwood	3	29	5	10 00
J. H. Stone	3	78, 79, 80, 82, 83	85, 86, 70	70 00
J. H. Stone	3	78, 79, 80, 82, 83	85, 86, 70	140 00
Jesse Gelb	2	31	20	20 00
Jesse Geib	3	31	20	40 00
Paul Corno	2	32	25	25 00
Jos. Van Doren	3	15	100	200 00
H. A. Wyman	3	22	10	20 00
A. B. Bronson	3	30	25	50 00
James Hulburt	3	141	15	30 00
Geo. A. Moore	3	74, 87	20	40 00
J. W. Sargent	3	33, 34, 35, 36, 37, 38, 39, 50		120 00
A. Z. Valleau	3	140	10	20 00
Geo. K. Phillips	3	147, 148, 149	15	30 00

And in accordance with law, and an order of the Board of Trustees, made on the 25th day of March, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the sales, room of Jerome Rice & Co., on the 30th day of May, 1864, at the hour of 12 o'clock, M., of said day, to pay said delinquent assessmen, thereon, together with costs of Advertising and expenses of the Sale.

GEORGE L. FAULKNER, Sec'y.

18-5t Office, 411 Clay Street, San Francisco.

Gobernadora Silver Mining Company, San Antonio

District, Lower California.—Office, 625 Clay street, San Francisco, California.

Notice is hereby given, that in accordance with an order duly made by the Board of Trustees of the Gobernadora Silver Mining Company, there will be sold, at Public Auction, by Jerome Rice & Co., Auctioneers, at their salesroom, No, 327 Montgomery street, San Francisco, on MONDAY, May 30th, 1864, between the hours of 11 A. M. and 2 P. M. of that day, to the highest bidder for cash, in United States coin, so many shares of the capital stock of Said Company, standing in the names of the hereinafter mentioned stockholders as will be necessary to pay all assessments now due thereon, together with cost of advertising and all accruing charges, unless the same be previously paid:

Names.	No. Shs.	Amt due	Names.	No. Shs.	Amt due.
John Brazer	130	$78 00	W. H. Knapp	105	$63 00
Mary A. Behau	5	3 00	H. Kilham	50	30 00
A. Cameron	20	12 00	R. G. McClellau	290	174 00
William Foss	5	3 00	W. E. Mayhew	20	12 00
B. F. French	10	6 00	Chas. McDonald	20	12 00
N. E. Grimes	10	6 00	Thos. McDonough	5	3 00
A. N. Humphreys	55	33 00	Chas. F. Nott'e	20	12 00
Wm. Hazeltine	18	10 80	J. W. Sprague	120	72 00
A. H. Jordan	50	30 00	R. A. Sanford	3	1 80

By order of the Board of Trustees.

18-3t C. W. HAYDEN, Secretary.

Pena Silver Mining Company.

—Location of Mine, Lower California.—Office of Company, 411 Clay street, San Francisco.

Notice.—There are delinquent, upon the following described stock of the above named Company, on account of Assessment No. 3, levied on the 25th day of November, 1863, and Assessment No. 4, levied on the 23d day of March, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Assts.	No. Cert.	No. Shs.	Amt.
G. E. Schenck	3	75	3½	5 25
B. A. Bidlack	3 and 4	65	16 2-3	$25 01
J. G. Dow	3 and 4	50	10	25 00
J. G. Dow	do	51	10	25 00
J. G. Dow	do	52	10	25 00
J. G. Dow	do	53	3 1-3	8 33
J. G. Dow	do	143	16 2-3	41 67
James H. Stone	4	142	22 1-3	22 33
James H. Welch	4	150	20 1-3	26 33
G. W. Botts	4	142	8 1 3	8 33
Geo. B. Lillie	4	159	14 2-3	14 67
J. F. Dorland	4	89	8 1-3	8 33
F. G. Norman	4	92	8 1-3	8 33
F. G. Normau	4	170	0 1-3	6 33
I. N. Thorne	4	83	18 1-3	18 33
J. W. Sargent	4	58	16 2 3	16 67
J. W. Sargent	4	59	16 2-3	16 67
Timothy Sargent	4	60	16 2-3	16 67
Mrs. H. A. R. Carter	4	(not iss'd) 155	3 1-2	3 50
David Ross	4	80	9 2-3	9 67
Susan E. Thorne	4	82	10	10 00
Susan J. Bryant	4	81	5	5 00
George A. Moore	4	111	3	3 00
John Todd	4	105	5 2-3	5 67
John Todd	4	144	3	3 00
Charles Geddes	4	151	1	1 00
James Delaney	4	152	2 1-3	2 33
A. H. Hagadorn	4	168	8 1-3	8 33
W. H. Baxter	4	173	57	57 00
R. C. Jacobs	4	137	32 2 3	32 67
R. C. Jacobs	4	32	6 2 3	6 67
Charles E. Brownell	4	113	4	4 00
Charles E. Brownell	4	139	3	3 00
Charles E. Brownell	4	140	8 2-3	8 67

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of March, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the sales, room of Jerome Rice & Co., No. 327 Montgomery street, on the 30th day of May, 1864, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

WM. FAULKNER, Secretary.

April 26th, 1864. (18-4t) Office 411 Clay street, San Francisco.

La Marronena Silver Mining Company.

—Location of Mine, Lower California.

Notice.—There are delinquent upon the following described stock of the above named Company, on account of Assessment No. 3, levied on the 25th day of November, 1863, and Assessment No. 4, levied on the 23d day of March, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shares.	Amt.
B A Bidlack (bal of 3d ass't)	33	13 14-22	$13 63
B A Bidlack (4th ass't)	33	13 14-22	68 22
J H Stone	149	14 17-22	73 83
J H Stone	154	1 1-22	5 45
J H Welch	4	22 8-22	111 81
J H Welch	166	2	10 00
J W Sargent	8	27 6-22	136 38
Timothy Sargent	9	13 14-22	68 22
G W Botts	88	6 18-22	34 10
George B Lillie	16	13 14-22	68 22
J J Corrigan	84	9 2-22	45 45
J J Corrigan	80	9 2-22	45 45
J J Corrigan	99	6 2-22	30 45
F G Norman	167	11 14-22	58 22
J G Dow	135	10	50 00
J G Dow	136	10	50 00
J G Dow	94	13 14-22	68 22
Miss M A Phillips	157	21 6-22	106 55
Edson Sammis	53	19 16-22	98 63
Jas F Dorland	39	6 18 22	34 10
John Todd	41	4 14-22	23 22
John Todd	90	2	10 00
David Ross	42	7 20-22	39 56
Susan J Bryant	45	4 2-22	20 45
Susan E Thorne	44	8 4-22	40 90
Geo A Moora	51	2 10-22	12 27
Geo A Moore	54	1-2	2 50
E B Gifford	95	7	35 00
Jas Delaney	98	3	15 00
C Sabin	100	4 1-2	22 50
Geo W Thompson	107	4	20 00
H K Snow	133	2	10 00
H W Snow	148	1	5 00
H O Howard	161	5	25 00
Frank C Snow	164	2	10 00
R C Jacobs	123	10	50 00
R C Jacobs	124	10	50 00
R C Jacobs	131	8	40 00
Mrs C E Brownell	154	5 14-22	28 22

And in accordance with law, and an order of the Board of Trustees made on the 23d day of March, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on the 30th day of May, 1864, at the hour of 12 o'clock, M., of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

13-4t WM. FAULKNER, Secretary.

April 25, 1864. Office 411 Clay street, San Francisco.

Table Mountain Copper Mining Company, Stanislaus

District, Calaveras county, California.—Office 645 Clay street, San Francisco, April 30th, 1864.

Notice is hereby given, that in accordance with the laws of the State of California, and the by-laws of the Company, there will be sold, at Public Auction, to the highest bidder, for cash, in U. S. gold coin, on WEDNESDAY, June 1st, 1864, at 10 o'clock A. M. of that day, at the office of the Company, 645 Clay street, San Francisco, so many shares of the capital stock of this Company, standing in the names of the following persons, as will be necessary for the payment of Assessment No. 5, of fifty cents per share, duly levied thereon March 25th, 1864, by the Board of Trustees, together with the expenses of advertising and sale:

Names.	No. Certificates.	No. Shares.	Am't due.
Wm. H. Geddes	33	16	$8 00
Wm. H. Geddes	34, 35, 36, 37, 38	10 each	25 00
A. H. A. Mason	143	133	66 50
L. W. McLaughlin	167	5	2 50
Lewis McLaughlin	195	5	2 50
B. F. Ogden	86	10	5 00
Wm. Boyer	204	10	5 00
Levi Drew	205	5	2 50
E. W. Linsley	181	2	1 00

By order of the Board of Trustees.

18-4t M. G. ELMORE, Secretary.

Cocheco Gold and Silver Mining Company, Office,

625 Clay street, San Francisco, California. Location, Humboldt District, N. T.

Notice is hereby given that in accordance with an order duly made by the Board of Trustees of the Cocheco Gold & Silver Mining Company, there will be sold at public auction at the Office of the Company, on Monday, May 30th, 1864, at 12 o'clock, M., to the highest bidder for cash, in U. S. Coin, so many shares of the Capital stock of said Company standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay all assessments now delinquent thereon, together with cost of advertising and all accruing charges, unless the same be previously paid.

Names.	No. shs.	Amt due	Names.	No. shs.	Amt due
Geo Acker	20	10 00	Henry Michaels	10	2 50
Mrs M A Torrey	30	15 00	N A Watson	50	12 50
Adrian Spear	10	5 00	Chas H Aitken	10	2 50
L Corey	30	15 00	P J Barher	25	0 25
Sam'l S Davis	20	10 00	A Barrill	10	2 50
N B Mulville	107	98 50	A Levy	1	25
Wm T Towle	15	7 50	S Reerdon	10	2 50
Miss Amelia Eaton	10	5 00	G B Hudson	10	2 50
T T Kneeland	50	25 00	A McCormick	5	1 25
Thomas Williams	5	2 50	John Lewry	10	2 50
Carlos Mills	3	1 50	C Gignoux	10	2 54
Wm H Manning	200	100 00	J B Bloomiugdalo	10	2 50
A B Schafer	50	25 00	Lydia Stewart	10	2 50
W H Vanderwater	35	17 50	B M Barker	10	2 50
W H Mills	305	150 00	J R Nealy	5	1 25
Chas McDonald	40	10 00	A W Garrett	10	2 50
W B Allen	10	2 50	John Taylor	5	1 25
Henry Mahoney	5	1 25	Cath M Gilbert	10	2 50
Thomas Brown	5	1 25	J Hamilton	50	12 50
W H Harvey	15	3 75	J N Sewal	100	25 00
S P Cornwall	10	2 50	D Caurad	10	2 50
Caroline T Hall	10	2 50	Dr H Austin	10	2 50
Dan'l H Mitchell	25	6 25	H H Schafer	50	12 50
A N Byfield	65	10 25	Paul Rousso	10	2 50
J B Wells	20	5 00	Warren Holt	20	5 00
Chas McDonald	40	10 00	A W Garrett	10	2 50
W B Allen	10	2 50	John Taylor	5	1 25
Henry Mahoney	5	1 25	Cath M Gilbert	10	2 50
Thomas Brown	5	1 25	J Hamilton	50	12 50
W H Harvey	15	3 75	J N Sewal	100	25 00
S P Cornwall	10	2 50	D Caurad	10	2 50
Caroline T Hall	10	2 50	Dr H Austin	10	2 50
Dan'l H Mitchell	25	6 25	H H Schafer	50	12 50
A N Byfield	65	10 25	Paul Rousso	10	2 50
J B Wells	20	5 00	Warren Holt	20	5 00
Henry Moss	50	12 50	Margaret Upton	10	2 50
Geo Robinson	50	12 50	S Cohen	5	1 25
Jas Drury	30	7 50	Tabor & Hill	40	10 00
Richard Hall	20	5 00	Law Mok	20	5 00
F Broilleau	35	8 75	Joseph Wells	100	25 00
T H Dowuing	6	1 50	G T Sewal	10	2 50
Edmond Loug	3	75	Thomas Prince	50	12 50
Jas R Gates	50	12 50	J G Klumpke	60	15 00
N Atkinson	228	57 00			

By order of the Board of Trustees.

18-5t C. W. HAYDEN, Sec'y.

Scottie Gold and Silver Mining Company, Office, No.

628 Clay street, San Francisco, California, April 12th, 1864.

Notice is hereby given that in accordance with an order duly made by the Board of Trustees of the Scottie Gold & Silver Mining Company, there will be sold, at public auction, by Jerome Rice & Co., at their salesroom, No. 327 Montgomery street, San Francisco, on Tuesday, May 31st, 1864 at 12 o'clock, M., to the highest bidder for cash, in United States Coin, so many shares of the Capital Stock of the said Company, standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay all assessments, now delinquent thereon, together with costs of advertising and all accruing charges, unless previously paid.

Names.	No. Shs.	No. Cert.	Assts.	Amt.
R. Barney	33	41	2nd & 3d	$49 50
S. C. Wright	8	46	2nd & 3d	12 00
R. B. Lovejoy	3	51	3d	3 00
A. K. Durgin	5	89	2nd & 3d	7 50
L. De Young	5	112	3d	5 00
Maria Cohn	5	113	3d	5 00
Elois De Young	5	127	3d	5 00
John W. Shore	50	128	3d	50 00
H. Doekweiler	10	129	3d	10 00
A. K. Durgin	2	131	1st 2nd & 3d	4 00
W. R. Greeley	10	141	2nd & 3d	15 00
James Hanna	20	5	1st 2nd & 3d	40 00
P. P. Wood	40	165 to 168	3d	40 00
J. McGinn	25	180	3d	25 00
W. W. McCoy	20	95 & 96	1st 2nd & 3d	40 00
W. W. McCoy	25	13	1st 2nd & 3d	50 00
W. W. McCoy	3½	93	1st 2nd & 3d	7 00
W. W. McCoy	15	125	1st 2nd & 3d	30 00

By order of the Board of Trustees.

18-5t B. W. MUDGE, Secretary.

Mount Eden Mining Company, Owen Lode, Gold,

Mill District, N. T.

Notice, There are delinquent, upon the following described Stock on account of assessment heretofore levied, the several amounts set opposite the names of the respective Shareholders, as follows:

Names.	No. Assts.	No. Cert.	No. Shs.	Amt.
*Bonestell, L. H.	1 and 3	59	20	$30 00
*Benestell, L. H.	1 and 2	50	10	15 00
Banker, S.	1 and 2	28	10	15 00
Banker, S.	1 and 2	29	10	15 00
Banker, S.	1 and 2	30	5	7 50
Brewer, F. A.	1 and 2	93	5	7 50
*Congdon, H. B.	1 and 2	91	10	15 00
*Congdon, H. B.	1 and 2	82	5	7 50
McKinaly, Henry	2	42	10	5 00
McKinaly, Henry	2	43	10	5 00
White, Robt	2	10	5	2 50

*Sold but not transfered.

And in accordance with law, and an order of the Board of Trustees, made on the 15th day of April, 1864, so many shares of each parcel of said Stock as may be necessary, will be sold at Public Auction at the Auction room of John Middleton, No. 400 Montgomery street, on the 31st day of May, 1864, at the hour of 12 o'clock, M. of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

H. B. CONGDON, Secretary.

18-5t Office, No. 620 Washington street, San Francisco.

Rubicon G. and S. M. Companies, Nos. 1, 2, 3 and 4

Keyes District, Nevada Territory.

At a meeting of the Board of Trustees of the above named Companies, on motion the Secretary was duly instructed, until otherwise ordered, to publish all notices of Annual Meetings, Assessments, and Sales, in the Mining and Scientific Press, and the stockholders are hereby notified that the said advertisements will hereafter appear in that paper.

J. B. JOHNSON, President.

J. P. Van Hagen, Secretary.

San Francisco, April 13th, 1864. 17-4t

No. 17—April 23, 1864.—Copperopolis Copper Veins—Illustrated; Zirvogel's Method of Extracting Silver; Santa Catalina Island; Letters from Reese River; Owen's River; City Stock Reports—Sales, Bids and Prices Asked; Washoe Sales; Reese River Stock Board; Mining Gossip; How Some People Get Rich; Mechanical Department—More About Generating Steam; Explosion of Steam Boilers; Artificial India Rubber; Humboldt Mines; New Patents; Safe Hook; Mining Share Market; Howell's Crusher; Reese River Mines, No. 2; The Kohler Brothers and Other Mines; Mining Laws Passed by the Last Session of the Legislature; Washoe Mining Items, Incorporations, etc.

Mining and Scientific Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

VOLUME VIII. SAN FRANCISCO, SATURDAY, MAY 7, 1864. NUMBER 19.

Contents:

No. 19—May 7—Twenty Pages.—Reese River Mines, No. IV.; The Formation of Metallic Veins, No. II.; The Bartolu Process; Letter from Austin; Mechanical Department—Home Industry; "Latent Heat" Compatible with Thermodynamics; Patent Department—Something New in Sewing Machines, New Steam Valve; Washoe Stock Market; Reese River Stock Board; City Stock Board—Sales of the Board—Prices Bid and Asked; Mining Shareholders' Directory; The Proposed Mining Tax; Mining Share Remarks; Editorial Paragraphs; Mining Gossip; Mining Review; The Whitman Mine; Oriental Copper Mine—Strike of Silver; Act Concerning Corporations; Etc., Etc.

[Written for the Mining and Scientific Press.]

The Reese River Mines.

NUMBER IV.

BIG CREEK DISTRICT.

South of Austin, about ten miles, is a large stream of water which takes its rise in the southern end of the Toiyabe Range of mountains, running north along the foot of these mountains some four miles, and then passing through a beautiful, broad, grassy cañon, westward, it sinks in the plain, about nine miles from its source. It carries about four hundred inches of water and flows steadily the year round, receiving its supply from several small branches and innumerable springs. For mill purposes it is one of the finest streams in the Territory, having a fall of about one foot to every rod throughout almost its entire course. Before the cañon became so populated, good sized trout were found in its gurgling waters. It was well called "Big Creek," and the district very properly named after it. Less than a year ago there were not a dozen houses in the cañon, and now there are no less than five thriving towns. The rapidity with which houses are springing up on every hand is wonderful; before the next winter they will extend from the sink to the head of the creek.

Lander City is just below the entrance to the cañon and about a mile farther up is Watertown, and next to this is Cañon City—all commanding a splendid view of the broad Reese River Valley, and the Smiths Creek range of mountains to the west.

Half a mile farther up the cañon is Mineral City, and a couple of miles more Montrose; indeed the houses are thickly studded along the Creek from Watertown to Montrose. I believe there is a greater proportion of good substantial, and comfortable dwellings here, than at Austin. Material for building is abundant, every hill being covered with pines of sufficient size to saw into lumber.

This district is in a very flourishing condition, and much enterprise has been displayed both in the improvements of every kind, and the amount of labor done on the various ledges. Every one has great faith in the richness and ultimate value of their mines when developed. All that the district now requires is more capital. It contains a great many fine ledges, some of which are of immense size and crop out so prominently that they can be seen for miles. One huge one, in particular, rising out of the afore mentioned Toiyabe range, towers to a hight of twenty-five or thirty feet, and presents a solid wall for more than half a mile. It can be plainly distinguished from the opposite side of the valley—a distance of sixteen miles. All the mountains in this district are very high and steep. Some of them are higher than Mount Davidson, and it is by no means an easy matter to ascend them. Two very high peaks are known as Mount "Moriah" and Mount "Pisgah."

There has always been a great deal of rivalry and jealousy between Austin and Big Creek, but in my opinion without any occasion. The districts are dissimilar in character and each presents its separate and peculiar advantages and inducements to capitalists for investment, and there is no doubt but both will yet receive their proper share of attention. Those who believe in the granite formation alone for good ledges, will go to Austin, while those who prefer slate formation and veins of some magnitude, will find all they desire at Big Creek. In the latter district some of the ledges are less than four feet in width at the outcrop, and from that up to fifteen or even twenty feet. Ore from many of them has been worked from time to time in the mills, and the results have always been satisfactory; the yield being from ninety to three hundred dollars per ton; and this, be it remembered, from surface ore, obtained from a not greater depth than twenty feet—in every instance. The rock is found richer as they go deeper, and should the veins at a depth of two or three hundred feet be found to increase in richness, as they will in width, then indeed will they be valuable mines. There is every facility for working them to advantage—by running in tunnels and piercing the ledges deep, thus draining the mine forever, and giving a body of ore overhead which could not be exhausted in years. Although several companies started tunnels to their ledges, none of them are in far enough yet, to reach the vein. Some of them have been obliged to suspend work for want of means to carry it on. Still much has been done and is doing which cannot be seen by a casual visitor. For instance, the Florence company have been steadily running their tunnel for a number of months, so also have the Olympic company. Both these companies have good ledges and will without doubt get good rock when they reach the veins.

The Toiyabe range is entirely distinct from the Shoshone range, although running parallel. It is about eighteen miles long and joined to the latter at either end, by low divides. It lies just to the east of Big Creek. The eastern slope goes down into Smoky Valley. The ledges found in this range are rather richer than the average of those found on the western side of the creek. Pieces of ore can be got from many of them, which upon roasting, the silver exudes freely. In at least two of them black sulphurets of silver have been found, at a little distance below the surface. I saw one from the Arizona last spring which contained argentiferous galena, chloride and black sulphuret of silver, and some carbonate of copper. This was very rich rock but unfortunately for the locators it proved to be a slide from the Seely ledge above and in sliding down it had probably capsized, throwing the deeper ore to the surface. This Seely ledge is the one I have mentioned as cropping up so prominently, running to the top of the mountain. When I passed through the district, in March, the company were running a tunnel from the gulch. I should say they will tap the ledge at a depth of five or six hundred feet. I do not know if they have yet reached the vein, but if they find ore such as that in the slide above mentioned (and I do not see why they won't) that will be one of the most valuable mines in the country. Of the *quantity* of ore to be obtained there can be no doubt whatever. At the extreme northern end of this range (and not far from the Seely ledge) is the "Shoshone Peak"—a very high, rugged promontory, perfectly barren of vegetation but supposed to be teeming with the precious metal. The Shoshone company located some very good ledges here, but through neglect of the company in not working them, they became forfeited and were re-located by other parties.

The character of the quartz in this district is generally the same—grayish or brownish at the surface but turning white at a little depth below, containing argentiferous galena, some black sulphuret of silver, but not much chlorides (and in this respect differing from the ledges in the granite formation) most of the surface rock being stained with blue and green carbonate of copper. A few sacks of ore from one of these veins, was taken and worked in a mill at Dayton, last winter, which yielded at the rate of $3,200 per ton. This is of course above the average, but nevertheless it is satisfactory to know that such ore can be obtained. There are several ledges of gypsum in the district, which are rich in silver. In connection with each is a stratum of antimony.

The formation of the Toiyabe range is principally slate, with occasional strata of porphyry and gneiss. The general course of the ledges is some 20° to the west of north and east of south, and the dip about 70° to the east.

There are several mills in process of erection on the creek—both for steam and water power. All are sanguine of good results and sure of the profitable working of the ore. The cañon is broad and has a natural grade to the divide to which there is an excellent wagon road. A company now have a franchise to grade a road over the divide into Smoky Valley. When this is done, Big Creek Cañon will be the natural highway for the overland travel.

A.

Attention Secretaries! — The new advertising law requires mining notices appearing in the county in which the works are situated, to be published Saturdays, if a paper is published there on that day. Consequently advertisements answering the requisitions of the new law by publication in the Mining and Scientific Press, will be correct for insertion in the paper nearest the mine, in most cases. We append the section requiring the above provision, which we presume has been overlooked by some in making out their notices:

Section 6. * * * * * And also in some paper published in the County in which the works of the corporation are situated, if a paper be published therein; *provided*, that if the works of the corporation are not situated within some State or Territory of the United States, then publication in a paper of the County shall not be necessary; and *provided, also*, that if there is no paper regularly issued on Saturdays at any place where publication is required to be made, the notice may be published in every issue of the paper which is most frequently issued at such place, for the full period of four weeks.

The spirit of the new law seems throughout to be in favor of advertising all notices of assessments and sales on Saturday, and as most papers in the interior are issued on that day, the fact will prove a matter of convenience to secretaries.

The Aquila has been raised out of her bed in the mud, and came near taking French leave of her keepers, on Wednesday evening last. The force of the tide and a strong off shore wind caused her to part a portion of her fastenings, so that her bow, still submerged, however, swung off fully a hundred feet from the wharf, before the movement was checked. It is expected that the arrangements for raising her will be fully completed by Wednesday next. The fact that she has already been raised out of her mud bed, renders her eventual raising to the surface a mere matter of time.

[Written for the Mining and Scientific Press.]

THE FORMATION OF METALLIC VEINS.

NUMBER II.

BY EDWARD A. MILES.

Having considered the apparent construction of veiastone, the writer further proposes to treat of metallilerous impregnations, a branch of the phenomeua of metallic veins that is the most important one to those engaged in working mines, siuce a true fissure vein may be poor in metal at one point and rich at another, besides carrying ores of widely different values. The subject is one worthy of examination in a multiplicity of lights, with regard to the many peculiarities of the useful metals, singly and collectively, as they appear in naturo and when manipulated by art. Though possessing the intricacies of a volume, it shall be herein followed under the direct constraint of the general purpose of the theme.

Of some sixty-six known solid and gaseous, simple or undivisable elements of the earth's construction, but thirteen are non metallic; the balance, when retained separately in a solid state, having a brilliancy of lustre, and, in different degrees, all the other metallic properties of ductility, density, etc. Thus if the earth is of the same composition throughout its entire bulk, and there he conceived a banishment of the gaseous from combination with the naturally solid matter, there will remain a globe two-thirds less in weight, composed equally of metallic and non-metallic elements. Of the latter, all but about one-twentieth part will be silicon, the base of quartz, and all but a still less fraction of the former, the alkaline metals, potassium, sodium, calcium and magnesium, the earthly metal aluminium, and the useful metal iron. The alkaline and earthly metals, as well as the non-metallic silicon, from their overruling disposition to unite with the oxygen of the earth and atmosphere, rarely long retain any other than an oxide, rust-like or earthy form, in which state they play important parts in the chemical and organic changes of matter in the animal and vegetable kingdoms, aside from their mutual affinities and antagonisms among minerals. Many of the other metals have been only obtained in minute quantities from rare minerals, of which they form small constituent portions, and whose catalogue may still be considered incomplete. Others, again, have their particular zones of existence or connection with certain ores; thus platiuum, itself a rare ore, is always associated with very small quantities of four distinct metals, having marked characteristics, but more nearly resembling it, in most respects, than any other elements, and not often found elsewhere. It is very seldom that any metal is found in nature apart from others.

By the wedding of the simple elements, which in their new conditions seek further alliauces in an arithmetical progression of compounds, are erected all earthly forms. Perhaps few, among the generality of men, clearly surmise the almost infinite number of atoms comprising the interfilling of the structures modeled within the scopes of their visions. Nor do they often consider the variety of creations existing under the apparent singleness of hardness, color, lustre and other properties.

Gradually new discoveries are extending the clear insight of men of science to the material appreciation of realms where the mists of uncertainty once prevailed. In this respect, an important addition to science is the recent invention of an instrument, called Bunsen & Kirchhoff's Spectroscope, whereby the incandescent or glowing vapors of the simple elements of nature, whether existing alone or in combinations, are analyzed or detected. The magnified, prismatic image of the flame of each element is cast upon a screen, where it displays fixed bands of colors and darkness distinctly characteristic in size, number, shade and position. By the present power of this instrument it is possible to discover a concealed particle of matter the three hundred-thousandth part of a grain in weight; and yet, it must he far from the ultimate penetration of atomic division. It has not only exposed the universal mingling of certain elements, as soda, etc., with most of the fractional structures of nature, the great abundance in the earth of elements, such as the metal lithium, hitherto considered rare, the peopling of the atmosphere of this sphere, and, perhaps, the sun, with a great variety of minute elementary atoms, but has also revealed the miniature existence of *four new alkaline metals*, that although since accumulated in appreciable quantities, might, otherwise, have long remained unknown. This branch of science is yet in its infancy, and may ere long directly unveil to us the marvelous fact that infinitessimal atoms of most of the simple elements are extensively mingled in the various coarser combinations of the earth. With perfection in the instrument, may come the revelation of elements not now concentrated enough for its present discernment, and of the association of those metals now only detected in veins or their debris, with certain earths throughout the great mass of the globe. The writer cannot but believe that there is a circumstantial train of facts, almost amounting to downright proof, when considered in all their relations, of the wide and atomic distribution of all the useful metals in the earth.

Several years ago, Prof. Faraday experimentally proved the presence of silver in sea water by dissolving in nitric acid the rotten sheathing of a vessel that had been cruising for seven years in the Pacific ocean. The solution yielded silver at the rate of thirteen ounces, Troy, to the ton of copper, an amount that if originally present would have paid a profit for extracting. Succeeding experiments with pieces of the same kind of metal, before and after exposure to the action of sea water, demonstrated an eight-fold gain of silver in three years. This accumulation of the more noble metal was undoubtedly brought about by galvanic power, which is always exercised when two separate metals are in contact in saline solution. Copper excessively saturates the waters of the coasts of California and England, and is said to give speciality of color to other portions of the ocean. Iron, from its great abundance, is readily recognized as present in every body of water on the face of the globe. The otherwise undetected existence of silver in sea water, gives strong grounds of belief in its presence in the sedimentary strata of the earth, all up to the tertiary period, except those of the wealden and a few of the carboniferous epochs, having had birth in briny depths. It is true that the washings from existing ledges carry to the sea more or less metallic particles, and that other veins are, most likely, laved by deep waters, yet, as continual deposits must be expected, and, according to the igneous theory, many veins were formed at an early geological period, there should be, at any rate, a metallic deposition in the later series of stratified rocks. In connection with numerous other facts to be mentioned, the immense aqueous solution of metals in the waters of the ocean affords strong presumption of the same operation ever since the inauguration of sedimentary rocks.

It would appear from a comparative analysis of the present sea water, which, in addition to sodium and potassium, contains lime and magnesia, and the regularity of stratification in the older sedimentary rocks, that they did not entirely progress outward from the land through the simple depositing of material from disgorging streams, but that the various particles of primary, or earliest formed, rocks of the universe were chemically revolved into their simple elements by the dissolving properties of sea water, and afterwards precipitated; certain conditions inciting the deposit of lime as limestone, and changeful causes that of silica as sandstone, alumnia as clay, and magnesia with lime as magnesian limestone. Probably the heating of the waters of the ocean by subaqueous eruptions had much to do with the dissolution and after precipitation of stratified material. The primeval oceans must have been more highly saturated with corroding elements than those of the present day. It would be difficult to state the precise changes wrought with calcium, for instance, but it is extracted from sea water as a chloride and sulphide, and in its final position in sedimentary deposit is a carbonate of lime. It is believed by some scientific observers, that all the atoms thus compounded with the organic element, carbon, necessarily had to undergo the transition of forming a part of animal life, having their restoration to inorganic nature in the empty tenements of the innumerable hosts of invertebrate animals that have successively left the ruins of their architecture in the sealed foundations of the earth's surface. In some limestone strata visible fossil remains form almost the entire rock, and communted earth, brought up from the present beds of the ocean, on microscopic examination, shows each particle to have been the crustaceous domicil of minute life. The disposition of fleshy organism to reduce metals from solution is well known; and metals could hardly have impregnated the waters of the primeval oceans without being subject to deposition from this cause. The sedimentary strata richest in metallic veins are naturally highly fossiliferous; and it is extremely doubtful if metals of any kind separately existed in veins until after the advent of organic life. The idea may be thought fanciful in regard to organic aid in the sedimentary concentration of metals; nevertheless it may be a beautiful principal in the animal economy, that infinitessimal deposits of gold, silver and other metals are due to the vital processes of living laboratories in the ocean depths.

Chemically, only chlorine, the predominent infused element of sea water, has any direct action on pure gold, with which it forms a terchloride. By the assistance of heat, gold in this form readily unites with magnesia and potash. Silver is easily altered into a chloride, which will form compounds with chlorides of potassium, sodium and calcium, decomposable by carbon, and even water. Sulphur, another element of sea water, has a corresponding action with chlorine upon most metals. These chemical operations of the laboratory show that there is no absolute bar to the union of the useful metals with those of an earthly form. It would be difficult to affirm the precise action in Neptunian solutions, which hold other elements dissolved; but it will be seen that powerful agents of mutual decomposition and reconstruction are present in sea water, although their ways are many and secret.

There seems to be a certain connection between minuteness of division in elements and oxidation, or a similar league with chlorine, sulphur, etc. The equivalent weights of the chief metals existing as earths are the lowest in the scale of solids, and iron and zinc, the most oxidizable of the useful metals, stand but little above them. Every metal acquires a greater or less film of oxidation, and in proportion as those metals of high equivalent weights are subdivided, the more free is the union with oxygen, chlorine and sulphur, the powers of their affinities being apparently in regard to surface presented and the inverse ratio of weight.

In its lowest atomic division, gold may be strongly disposed to unite with oxygen and chlorine; with greater concentration this disposition might be weakened until entirely overruled. The result of the sedimentary deposition of metals would be to separate them from a large quantity of matter and cause them to occupy a smaller zone of affinitive elements. In the case of gold, the first concentration of this kind might remove it beyond the arbitrary influence of any but strong chemical powers. Supporting this conclusion is the established fact that when gold veins are found in metamorphosed rocks, distant from any erupted dykes, that the formation is traceable to the oldest fossiliferous system, the lower silurian.

PACIFIC RAILROAD.—The Aurora *Times* has some sensible remarks in connection with the importance of an early completion of the Pacific Railroad over the mountains:—

Every mile of railroad completed on the route tends to lower the price of freight, an item in which the people of this State are largely interested. The Central Pacific Railroad has done remarkably well since they commenced the work, and would progress better were it not for the jealousy and local prejudices of parties who, because every particular does not suit their views, or promise to put money in their pockets, are disposed to throw obstacles and hindrances in the pathway of the company. What need Nevada care who constructs the road? Her inhabitants are affected by delay, but not by the profits that may arise from the work as reward of the enterprise that constructs it. That company which gives assurances of the earliest completion of such a communication is the one to which her encouragement should be given. A work of such vast importance should not be checked, hindered or delayed because its course or particular locality may not suit the individual interest, and directly enhance the property of certain parties in different localities. The road is the object.

CORPORATIONS.—The following "Act concerning corporations" was passed by the fifteenth Legislature:

SECTION 1. All associations or companies heretofore organized and acting in the form and manner of corporations, and that have filed certificates for the purpose of being incorporated, but whose certificates are in some manner defective, or have been improperly acknowledged, or have been acknowledged before a person not authorized by law to take such acknowledgements, are hereby declared to be and to have been corporations from the date of the filing of such certificates, in the same manner and to the same effect and intent as if such certificate were without fault and properly acknowledged before the proper officer, and all such certificates are hereby validated and declared to be legal, and shall have the same force and effect as if such certificates were free from all fault or defect, and were properly acknowledged before an officer having authority to take such acknowledgements.

SECTION 2. This Act shall take effect immediately. Approved April 1, 1864.

THE BARTOLA PROCESS.

Our Colorado neighbors in the Pike's Peak region appear to be doing much in the way of experimenting, to determine the most approved processes for working gold ores, more particularly auriferous sulphurets, which appear to constitute a very large, if not the largest portion, of the entire material of their gold-producing veins. Experience has proved that the ordinary processes for working gold ores, employed in California, is entirely inapplicable to a large portion of the ores of that region. Very little gold is found free, or mechanically mixed, with quartz; as where the ordinary mill process gives but twenty, thirty, or fifty dollars result, the assays from tailings prove an actual loss of three, four, or five times that amount. This loss is found to be in the sulphurets. A similar loss, but at a much less rate of percentage, is found in working the gold mines of California.

Experiments have been in progress for the past year or more, in two distinct lines, to avoid this ruinous loss. Of course the decomposition of the sulphurets and expulsion of the sulphur, has been the point to be gained. Dr. Keith, to whose process frequent allusion has been made in the columns of this paper, has been experimenting for some cheap and effectual method of desulphurizing by the aid of heat. The great cost of "plant" (furnaces, etc.,) and the large expense attendant upon the manipulation of the ores where reverberatory furnaces are used, has induced the Dr. to endeavor to seek out some cheaper method. The result of his experiments has been the production of a kind of reverberatory furnace, of cheap construction, *without a hearth;* the ores being desulphurized while passing through the flume of the furnace in a current of air, without any manipulation whatever. This process, it is claimed, works quite satisfactory.

In the meantime another party has been operating in another manner, which is termed the "Bartola Process," and which is essentially *chemical* in its nature, requiring no roasting operation. This process was thus spoken of in the Colorado *Mining Journal*, of Dec. 26th, 1863, as at work in the mill of Messrs. Kenyon & Shaffer, on North Clear creek:

They are working upon tailings, using the Bartola process for separating the gold. This consists of two operations. First a chemical one, and afterwards a mechanical treatment of the ores, whereby they are reduced, and the gold is liberated and amalgamated. To treat ores by this process they must first be crushed or reduced in the ordinary mill, or by some other method to an extent usually accomplished in stamp mills. The ores thus prepared are mixed with certain chemicals, of which we are entirely ignorant, and then placed in a steam vat, into which the steam is admitted from the bottom in such a way as to permeate and pass through the entire mass. Through the combined influence of the chemicals employed and the steam, a decomposition takes place, resulting in freeing the ores from a portion of the sulphur, or in neutralizing it so as to aid in the further reduction of the ores. This is the only secret which is connected with the process; the rest is open and patent to every one.

It appears to work on the same principle as that which operates in mixing silver ores with salt, and then leaving them for several months for spontaneous decomposition to ensue, as is practiced by the Mexicans, and as has been in vogue for centuries. The steam we presume is designed *to hasten this decomposition.*

After undergoing the chemical operation, the ore is placed in a somewhat peculiar arastra, known as the Bartola pan, for further reduction and amalgamating.

The pan portion of the process appears to be the same as that generally employed in working silver ores in this State and Nevada Territory. The following paragraph, in connection with this process appears in another number of the same paper quoted above:

The ores designed for treatment are received at the side door of the mill, in a room of 200 tons capacity. Thence they are introduced into the laboratory, where they are, by the aid of steam, subjected to a chemical treatment, of which Mr. Kenyon probably knows more than we. Its general effect, however, is at *a trifling expense*, the same as that produced by the action of the atmosphere. All mill men have remarked that ores, by being exposed to the weather, undergo a change which frees the gold, increasing their product from 25 to 50 per cent., according to the length of the slacking process. The secret of the treatment under consideration consists in neutralizing, by the use of chemicals, all poisonous substances in the ores, and transforming the sulphur from an antagonist to an assistant. * * * So far as this thing—process and mill—are concerned, it is quite the general impression that it has only to go to work and do well. As we understand it, numerous experiments have already demonstrated its correctness and feasibility. It is claimed that it will save 90 per cent. of the gold actually in the rock. If so, a new era is about to dawn on us. Assays from different mines on various lodes in almost every mining district in the Territory give from $100 to $300, and even $500 per ton. * * * We trust we shall be able to chronicle, inside of a month, the success of the Bartola process and mill—the establishment of the Kenyon Mining Company being now prepared to commence operations. In the event of the success of their present enterprise, Messrs. Kenyon & Shaffer will establish similar works upon extensive mining property owned by them in Clear Creek county, during the coming Spring.

The last extracts were published on the 6th of January last. We have now before us a copy of the same paper, dated April 7th—three months later—from which we extract the following:

THE BARTOLA PROCESS A SUCCESS.

To satisfy the friends of this Process, we would state that all experiments thus far have resulted satisfactorily. Messrs. Cook & Kimhall have their fine new mill put in partial operation, and they are so well pleased that they have already ordered the machinery, not only to double its capacity, but to build one, if not two, similar establishments in Clear Creek county—one above and the other below the mouth of Fall river. They have commenced work there, with this end in view. They have now four Chilian mills and twelve pairs of pans in operation, and inside of two weeks will increase the number of the former to six, and that of the latter to thirty. To give a complete idea of their treatment, a Blake's Crusher will first be brought into requisition, then stemps, then the Chilian mills, then the chemical treatment known as the Bartola Process, and, finally, the amalgamators—the latter running till nothing is left in them but amalgam and water. The capacity of the Chilian mills is five times as great as that of the amalgamators—the latter using, including stoppages, 75 lbs. of material each per hour, equal to the consumption, in a mill of 30 pans, of 27 tons tons of ore per 24 hours. Our readers can continue the calculation at their leisure. * * * We have obtained our information directly from them, but it was rather against than in consonance with their feelings. They have no interest in the Bartola Process, further than that they can make use of it.

It appears that Mr. Bartola has had large experience in mining, both in Europe and this country, and has been at work for some six years in New York in bringing his invention to what he considers a satisfactory degree of perfection. We give the above as we find it in the Colorado *Mining Journal.* We have been watching the progress of the above experiment with no little interest for some months past, and hope soon to be able to give something further in relation to the matter, through direct correspondence from Colorado.

If the process is found to work well for gold, it ought certainly to be far more readily applicable to the working of sulphurets of silver, which, as a general thing, and especially as found in Washoe, are much more yielding than auriferous sulphurets. We hope soon to be particularly informed upon that point. Whatever information is gained will be as freely given as received.

From $25,000 to $30,000 worth of bullion is daily shipped from Virginia City by Wells, Fargo & Co.'s Express. The weight of this freight averages from a half to three-quarters of a ton each day.

The Red Bluff *Independent* says that persons inclined to work can find plenty of it at Copper City. In addition to the labor carried on in the mines, a number of roads are in course of construction.

[Written for the Mining and Scientific Press.]

Letter From Austin.

Messrs. Editors:—I have delayed writing to your valuable journal for some time, for the reason that I had nothing encouraging to say of our prospects; but as things have materially changed for the better, I think I can impart a better feeling to all particularly interested, and to the mining interest generally. It is now pretty generally conceded that mines must be developed before they can become marketable, either at home or abroad; and with this improvement in the sentiment of the miners and capitalists, we find our only salvation, and while the "wild cat" is being rejected and thrown entirely by the board, our promising claims are being developed, and the best interests of the country most speedily established.

The truly rich working results of the North Star ledge have given an impetus to our mining interests that cannot but prove of the highest consideration. I do not question for a moment but that there are hundreds of claims equally as rich, and it would be strange indeed if the ledge most developed should prove the only paying institution in this district. In connection with the North Star, Southern Light, Oregon and Blue Ledge Consolidated, they have a ten-stamp mill of the first-class, all of which is embodied in what they call the Oregon Mill Company, consisting of but five members. There has been none of the stock in the market, but it is generally understood here that a sale of fifty feet was made recently for the sum of $54,000.

The first northern extension, as well as the first southern, of the North Star ledge, I was informed, were segregated from the original, and, of course, constitute a part or parts of the same ledge. The north extension was, I believe, incorporated in San Francisco, and is now being worked under the superintendence of Mr. D. Buel, the Democratic candidate for Mayor of Austin. The south extension is owned by three men, and unincorporated. Work is being done on both ledges, or rather by both companies. The Gov. Seymour, I think, will prove to be on the same ledge, as it stands on a line of the ledge and shows the same quality of mineral so far as opened. It is probably 1,000 feet northerly. The Savage is in front, westerly, but a few hundred feet further down the incline, and the Oregon, Isabella and Manhattan as many feet above, on a parallel ledge—all of the first class. The Maggie, in Yankee Blade district, is turning out good rock, and commands considerable attention. The company has worked their mine through good and evil report, and now are being rewarded for their perseverance and labor.

The most prominent mines in Amador district are being developed as fast as possible, and command fair prices in the market. The Rough & Ready, next to the Amador, seems to take the lead. The Coral is progressing finely. Their lead, after a little coquetting, has returned to the light, with a more radiant face than ever. A faint heart never won a fair mine, any more than it ever won a fair lady.

The mills are spasmodic in their efforts. Sometimes all in concert at work, giving hope and consolation, and again shut up, like the temple of Janus, for the want of something to crush. That we have rich mineral no one denies; but why the work at the mills is so unsatisfactory, don't seem to enlighten the impatient miner, who seeks the wand of Aladdin, rather than the slow and toilsome wealth hidden in the bowels of the earth. A more healthy state of things is being inaugurated in our midst, and Reese River will no longer be looked upon with cupidity and distrust. B.

Austin, N. T., April 25th, 1864.

A Huge Bird, said to be a pelican, was recently killed near Carson City, N. T. The feathered monster attracted considerable attention. The bird measured from the tip of one wing square across the back to the tip of the other, eight feet; from the point of his bill to the tip of his toes, fourteen feet.

California Exports.—California is now shipping largely of grain, flour, and many articles of produce to China. We have two regular lines to that country—one by Messrs. Macondray & Co. and one by Messrs. Koopmanschap & Co., and the trade is rapidly increasing, and California is reaping the benefit thereof.

WASHOE STOCK MARKET.

Review of the Week Ending May 3d, 1864.

The week ending with our present review has been rather dull, the sales having been unnsually small.

We quote Ashland at $3. One hundred and twenty shares Alban sold from $14@16; Arizona, ten at $8.

Badjazette and Golden Era has sold at $25; Baton Rogue, at $2½.

Ten shares of Colorado sold at $5; twenty-eight of Consolidated Brotherhood, at 50c.; ten of Combined Effort at $6.

Daniel Webster has sold at $25; De Wit Clinton at $2.

Effingham still continues to fluctuate. Ten shares sold on Thursday at $4, and fifteen on Friday at $1. Its fluctuations last week were from 75c. to $4. It may be called, decidedly, a fluctuating stock.

Ten shares Front Gold Hill sold at $7; Free and Easy has been considerably enqnired for—we notice five transactions, embracing 200 shares at from $4 to $6, closing at the latter figure.

One hundred shares of Green have sold from $4¾@5½ Gray & Cook is qnite a stranger at the board, but has been heard from at $80; Gilmorc has found a pnrchaser at $2.

Harold & Argo has been considerahly enquired after. Opening on Wednesday last at $6¾, it dropped to $4 at the opening of the board on Saturday, subscquently advanced to $8, touched $9 on Monday morning, but gradually dropped to $6½, at which figure it closed; 183 shares ebanged hands between the above figures.

Jewett & Shephard still coutinues to form the chief feature of tbc market, fluctuating from $26@45, and all intermediate figures. Thc closing sales were at $34½. We notice salcs of 555 shares, embracing a large number of transactions.

Forty-five sharcs of Judge Advocate changed hands at $50.

Knickerbocker has bcen more enquired after within the last few dnys. We quote sales of 110 shares at from $30@35, closing at $32½. Kossuth has been dealt in to some extent at from $10¼@13, closing at $11. King Solomon has not heen heard from the past week.

Legal Tender has heen some sought after at improved rates. We note sales of sixty shares at from $17½@19, closing at the latter figure, with an upward tendency. Leopold has sold for $7½; La Mina del Alto at $2.

We quote Mother Lumpkins at $2; Milton has been heard from at $26.

New Oregon has found buyers from $15½@16.

Orleans Flat has met with a single purchaser, at $15.

Poney Express is firm, at from $5@6½; Pride of America quiet, at $6; and Palo Alto at $2½.

Richelieu has met with but two transactions; 25 shares selling at $4½, and 25 nt $6. Rock Islaud has been heard from nt $40; Rock Rose at 16; Randolph at 9.

We quote Seneca at $27½; San Francisco at 5½; State of Maine at 2½; Sandy Bowers at 50; Snug at 8.

Tontine has sold at $5; Union, G. H.,, at 20; Uncle Sam, Flowery district, at 4; White & Saunders at 3½. Vulcan at 4½; Yuba at 2¾.

Young Company has met with considerable husiness at from $1¼@2¼—355 shares have ebanged hands.

Treasure Receipts from the Interior.— The receipts of treasure from the mining districts, for the ten days previous to May 1st, were $1,780,000. The receipts from Nevada Territory, for tbe quarter ending April 1st, 1864, were as follows, as given in the *Prices Current* of May 2nd:

From Virginia City	$2,522,000
From Carson City	753,000
From Gold Hill	234,000
From Silver City	63,600
From Dayton	32,000
From Austin, Reese River	50,624
From Aurora, Esmeralda	275,500
Total from the Silver Districts	$3,930,724

This exceeds the product of last year by 62½ per cent.

San Francisco Stock and Exchange Board.—Prices Bid and Asked.

WASHOE STOCKS.	FEET.	SHARES.	VAL.	Saturday. BID.	Saturday. ASKED.	Monday. BID.	Monday. ASKED.	Tuesday. BID.	Tuesday. ASKED.	Wednesday. BID.	Wednesday. ASKED.	Thursday. BID.	Thursday. ASKED.	Friday. BID.	Friday. ASKED.
Ophir	1,400	16,800	300	1,175	1,250	1,000	1,250	1,100	1,175	1,130	1,150	1,000	1,150	1,010	1,025
Gould & Curry	1,200	4,800	500	4,050	4,200	3,900	4,000	3,950	4,000	3,975	4,050	3,700	4,000	3,875	3,900
Savage	800	800	2,000	2,000	2,250	2,000	2,250	2,000	2,250	2,150	2,200	2,100	2,200	—	—
Chollar	1,400	5,600	300	450	480	475	492	465	490	295	315	325	350	400	400
Potosi	1,400	2,800	500	550	850	—	800	700	800	800	1000	—	1,200	550	800
Hale & Norcross	400	800	500	—	—	—	—	—	—	—	—	—	—	—	—
Sierra Nevada	3,000	3,000	500	40	70	42½	67½	40	—	40	67½	30	65	37½	60
Daney	2,000	800	60	100	105	90	100	82½	85	82½	97½	92	100	90	90
Burning Moscow	4,100	4,100	500	95	97	90	97	85	88	94	95	88	90	88	90
North Potosi	2,000	2,000	250	67	68	69	70	78	80	73	74	78	79	84	85
Charles Cany	1,800	1,800	30	—	—	—	—	—	—	—	—	—	10	—	—
Iowa	1,200	1,200	1,000	—	40	—	—	—	—	—	—	—	40	—	—
El Dorado	1,600	1,600	500	—	—	20½	50	10	50	—	—	—	—	—	—
Norton	1,600	1,600	50	—	—	—	5	—	—	—	—	—	—	—	—
Burnside	2,800	2,800	500	8	11	—	10	—	11	—	—	—	10	—	11½
Adriatic	2,700	2,700	100	—	—	—	—	—	—	—	—	8¾	10	9	—
Pride of the West	1,400	1,400	100	73	75	65	75	60	65	57¼	58	50	60	50	54
Imperial	184	4,000	500	155	158	150	175	150	152½	150	160	150	160	150	155
Crown Point	600	1,200	100	—	—	—	—	—	1,000	—	—	—	—	—	—
Manhattan	—	—	—	—	—	—	8	—	—	—	—	—	—	—	—
Seneca	—	—	—	12½	20	11	22	—	—	15	18	—	18	—	—
Mt. Davidson tun'l.	1,000	1,000	200	2	4	2	4	2	2½	2	2	—	2	—	—
Caledonia Tunnel	—	—	—	15	24	—	25	—	—	20	20	21	22	—	—
Bajazet & G. Era	4,000	4,000	300	25	35	20	35	15	30	12½	27	25	27½	26	26
Cedar Hill tunnel	—	1,000	100	—	—	—	—	—	—	—	—	—	—	—	—
Gold Hill Qu'tz Mill	—	—	—	—	—	—	300	—	—	—	—	—	—	—	—
ESMERALDA.															
Wide West	1,400	1,400	2,600	26	27	24	25	21	27½	23½	24½	21	30	24½	25
Antelope	1,200	1,200	500	—	—	140	175	—	200	—	300	—	—	140	—
Esmeralda	1,600	1,600	1,000	2½	12	—	—	—	—	—	—	—	—	—	—
Real del Monte	4,400	4,400	400	68	68½	66	57	51	55	51½	56	53	53	55	57
Utah	1,600	1,600	250	20	21	—	—	27½	32½	25	35	25	—	25	—
Silver Hill	3,000	3,000	500	5	6½	—	—	—	—	—	—	—	—	—	—
Nevada	600	1,200	250	—	—	—	—	—	—	—	—	—	—	—	—
Falls of Clyde	6,000	6,000	100	—	—	—	—	—	—	—	—	—	—	—	—
Bamboo	600	600	500	—	—	—	22½	—	22½	—	46	—	35	—	—
Crockett	—	—	—	7	8½	7	8½	—	—	—	—	8	8½	—	8
Federal Hope	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Jenny Lind	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
COSO.															
Josephine	9,600	4,800	2,500	2	—	2½	3	—	—	2	—	—	—	1	—
Willow Springs	2,700	2,700	100	—	5	—	4	—	4	—	4	—	—	—	2½
Coso	2,600	3,600	600	4½	5	—	—	—	—	—	—	—	—	—	—
COPPER.															
Napoleon	2,700	2,700	600	—	—	51	—	—	—	—	—	—	—	—	—
Josephine	—	—	—	—	—	3½	—	3½	—	2½	—	3	—	2½	—
CALIFORNIA.															
Laurel Hill	—	—	—	—	1	—	1	—	1	—	—	—	—	—	—
Rhodes Diggings	—	—	—	—	—	—	—	—	—	—	—	5	40	—	—
Fellowes	2,500	2,500	100	—	—	—	—	—	—	—	—	—	—	—	—
Maxwell	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rock River	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60
Eureka	—	—	—	—	—	—	—	—	—	—	—	10	32	—	—
HUMBOLDT STOCKS.															
De Soto	1,980	1,980	100	30	40	30	—	40	40	—	40	30	40	30	40
Great Basin	—	—	—	—	1	—	4	—	—	—	—	—	—	—	—

Pioneer Stock Board, Reese River.—The *Reveille* gives the following as the proceedings of the doings of the Pioneer Stock and Exchange Board, at their meeting on Monday, the 25th ult.:—

Reese River District.—Emma Funston, $6 asked; Maggie, $50 bid, 100 asked; Marion, 10 asked; Southern Light, 25 asked; Smitb & Murtin, 10 asked.

Amador District.—Monte Christo, 15 asked; Rough & Ready, 75 asked; Wildwood Tunnel, 5 asked.

Smoky Valley District.—Mountnin Company, 10 asked.

Bunker Hill District.—Brown, 15 asked; Real del Monte, 15 asked.

County Warrants, 30c hid, 37½c asked; Legal Tenders, 65c asked.

Miscellaneous Calls.—South Sonoma, 10 asked; Yankee Blade Original, 40 asked; Nortb Star Eastern Extension, 12.50 asked; Keystone, 4 asked; Manhattan, 4 asked; Mountain Queen, 4.50 hid, 4.50 asked; Victorine, 10 asked; Lapine Tunnel Compnny, 5 asked; Freeman, 8 asked; Morning Star, 5 asked; Stony Company, 5 asked; Fanueil Tunnel Company, 10 asked; General Sigel, 5 asked; Little Miami, 5 hid, 30 asked; Ontario, 10 bid; Wall Street, Young Ophir Compauy, 6 asked; Mammoth Tunnel Company, 2 asked; Tesoro, First North Extension, 10 bid, 20 asked.

Sales.—Five feet Mountain Queen at 4.50. Five feet same ledge at 8.

The British Columbia Mines.—A recent correspondent of a city cotemporary writes as follows from Victoria with regard to the Columbia mines:—

More people have left Victoria this year than last for the gold mines of British Columbia, and a general impression prevails that a large crowd will be shortly assembled there, swelled, as there is a great probability it may be, by a considerable numher of "overlanders" from Oregon and Washington, or, rather Idaho Territories. There is nothing very startling from the mines—no great inducement; but a steady, unwavering confidenee in the greatuess of that country as a gold-bearing region, exists. Its progress is steady; it has taken its place, and nothing will prevent its future prosperity, although it will, nndoubtedly, be subject to the variations incident to all mining countries. It is more important to the future welfare of the country that its agricul tural resources should be brought into play; and this is now being done, for farmers and farms are increasing in number, size and extent, and this source of wealth, which used to be despised, is now becoming more attractive as it will be more lasting. British Columbia is all right for the present, at all events, and every year will add to the experience of those who may choose to settle within her borders

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Legal Tender Notes.

San Francisco, Friday May, 6.....58 per cent.

City Stock Reports.

Sales of Mining Shares

For the week previous to Saturday, April 23, 1864.

By the San Francisco Stock and Exchange Board, Pacific Board of Brokers, Stock Exchange and the City Stock Exchange Board of Brokers

NAMES OF COMPANIES.	SHS. SOLD.	LOWEST.	HIGHEST.	CLOSING.	AM'T SOLD.
Daney	300	84	105	90	22015
Chollar	5203	325	600	350	30031
Central American	127	14	18	14	2420
Nevada, J. G.	130	75	89	75	10547
Lady Bryan	3856	37½	47	45	145209
Baltimore American	50	50	57	50	4175
Coso	25	4½	5	4½	115
Blue Ledge	275	17½	23½	23	5212
Burning Moscow	180	85	100	90	15365
North Potosi	1222	64	85	77	89051
Wide West	77	23	28½	24	85417
Kohler Brothers	90	24	28	26	2302
North American	801	161	175	185	90255
Real del Monte	506	50	72	63	39987
Gould & Curry	28	3875	4010	3575	27885
Pride of the West	337	48	78	48	18220
Buckeye	147	12	16	14	1957
Santa Rosa	135	4	8	4	579
Green	152	3	5	6	440
Good Return	224	4	6	8	1743
Caledonia Tunnel	150	19	28	19	4045
Bullion	30	80	90	80	2500
Melones	38	24	25	25	985
Harmon	90	20	27	20	2135
Seneca	38	19	27	19	877
Crockett Consolidated	10	7	7	7	155
Ophir	180	1000	1425	1010	16165
Utah	5	31	31	31	155
Sacramento & Meredith	250	50	51	51	5312
Pine Leaf	99	7	8	8	767
Union, Starr	15	1	2	1	224
Baltic	20	105	120	105	3350
Mary Ann	5	95	95	95	475
Imperial	51	150	150	150	4650
Golconda	5	55	55	55	275
Crockett	81	8	8	7	558
Baltic, H.....a.	50	4	5	4	95
Lancaster	10	10	10	10	100
Knickerbocker	99	27	27	27	810
Sweet Vengeance	10	20	20	20	200
Silver Hill	5	16	16	18	83
Michigan, G. H.	18	37	37	37	577
Rock Island	10	39	39	39	320
Golden Age & Empire	147	30	34	30	3850
Young Harmon	35	5	5	6	105
Paget	15	2	2	2	30
Beaver	30	23	24	24	240
North Bamboo	5	35	35	35	176
Williams & Kellinger	4	25	25	25	220
Florida	5	35	35	35	176
Defiance	20	6	6	8	555
Gov. Nye	10	5	5	5	50
Honduras	10	5	5	6	60
San Francisco	10	10	10	10	100
Red, White & Blue	10	1	1	1	75
M. A. Davidson	12	2	2	2	399
Cicopatra	30	7	8	8	447
Savage	1	2200	2200	2200	2200
Bajazette	10	25	28	25	285
Adriatic	100	7	9	9	930
Moss, V.	10	26	25	25	250
Fanny Payne	10	5	5	5	55
Spanish, No: 2	5	14	14	14	120
Ontario	10	8	8	8	80
Crown Point Ravine	5	7	7	5	85
Sales for the week	.....	.....	.....	.....	649,951

The Wateree, iron-clad gunboat, left St. Thomas, West Indies, for California on the 26th ult. She will probably arrive in San Francisco in about a montb.

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Assessments and Delinquent Sales.

REVISED EVERY ISSUE.

Advertised in the Mining and Scientific Press.

NAMES OF COMPANIES, LOCATION AND ASSESSMENT. — DATE OF SALE, MEETING, OR LEVY, AND PLACE OF BUSINESS.*

Bay City, Reese River.....Quarterly Meeting, May 30
Butler, Reese River, 20 cents.....Sale May 25
Butte, Reese River, 50 cents.....Sale June 4
Bajazette, Lander county, 50 cents.....Levied March 30
Billett, Reese River, 12½ cents.....Sale May 25
Burgess, Reese River, 25c and $1.....Sale May 5
Belle, Reese River, 25c and $1.....Sale May 5

Cortez, Cortez district, $2.50.....Sale June 20
Crown Point, Reese River, 50 cents.....Sale June 15
Cedar, Esmeralda.....Sale May 16
Cloverdale, Sonoma county.....Sale May 4
Cochece, Humboldt.....Sale May 30

Dane, Esmeralda, 50 cents.....Sale May 25

Essex, Reese River, 20 cents.....Sale May 25
Enterprise, El Dorado Canon.....Caution—Certificates sold
Enterprise, Reese River, 20 cents.....Sale May 25
Enterprise Tunnel, Reese River, 25 cents.....Sale May 14
Eureka, Calaveras county, 20 cents.....Sale May 30
Eureka Mill, Big Creek, five dollars.....Sale June 11
Exchange, Lander county, 25 cents.....Sale June 22

Grafton, Reese River, 25 cents.....Sale May 25
Golden Rule, Tuolumne county.....Sale May 18
George Leet, Reese River, 50 cents.....Sale June 15
Gobernadora, Lower California, $1.....Sales May 30 and June 11
Great Central, Weaver.....Sale June 8
Green Monster, Inyo, $1.....Sale June 22

Henry & Barnard, Weaver.....Sale June 1
Hyack, Reese River, 20c and 30c.....Sales May 25 and June 15

Ida. Russ district, $1 and $2.....Sale May 14
Illinois, Lander county, 50 cents.....Sale June 18
Itasca, Reese River, 40 cents.....Sale June 22

John J Crittenden, R. R., 25 cents.....Sale May 28

Keokuk, Contra Costa county.....Sale May 25

La Marronena, L. C.....Meeting June 5—Sale May 30
Lewis Cons., R. R., 25c and 25c.....Sales May 25 and June 15
Lord Byron, Devil's Gate dist., $1.....Sale June 4
Laurel Hill, Tuolumne county.....Sale May 18
Logan.....Sale June 8

Mountain Mary, Silver Mountain.....Meeting May 21
Mountain Mary, Silver Mountain, 25c.....Sale June 16
Mount Eden, Cold Hill district.....Sale May 31
Memphis, Reese River, 25 cents.....Sale May 25
Meteor, Reese River, 20 cents.....Sale May 25
Mechanics, Contra Costa county.....Sale May 18
Mount Zion, Contra Costa, 25 cents.....Sale May 16
Mammoth, San Bernardino, 50 cents.....Sale May 28

Nicolaus, Reese River, 10c and 25c.....Sales May 25 and June 15
Noonday, Contra Costa county, 20 cents.....Sale June 22

Olive Branch, Reese River, 25c and $1.....Sale May 5

Palma, Ures district.....Sale May 30
Pena, Lower California.....Meeting June 8—Sale May 30
Pontiac, Reese River, 20 cents.....Sale May 25
Paul, Reese River, 25 cents and $1.....Sale May 5
Pride of Nevada, Reese River.....Sale May 18
Pearron, Lander county, 25 cents.....Levied March 30
Peacock, Reese River, 25 cents,.....Sale June 22

Queen of Antilles Cons, Lander, 25c.....Levied March 30

Revere, Reese River, $1.50.....Levied March 25
Rose Linda M. & M. Co., Amador co., 50c.....Sale May 25
Rubicon 1, 2, 3 and 4, Keys district.....Sales May 24 and June 10
Rubicon No. 2, Keys.....Sale June 7

Storm Cloud, Reese River.....Annual Meeting May 30
Scottie.....Sale May 31
Scorpion, Virginia district.....Sale May 28
Sonoma county, Cloverdale, 10 cents.....Sale May 16
Swift, Reese River, 25 cents and $1.....Sale May 5
Scottish Chief, Reese River, 10 cents.....Sale May 25
Samantha, Reese River, 25 cents.....Sale May 25
Saxon, Calaveras county.....Sale May 10—Copperopolis
Sierra Consolidated, Sierra county.....Sale May 16
Sonoma Ledge, Reese River.....Sale May 23
Silver Star, Virginia dist, 25 cents.....Sales May 25 and June 8
Smith & Martin, Reese River.....Sale June 13

Tellurium, Amador county, $1.....Sale June 4
Tehama, Reese River, 25 cents.....Sale May 25
Table Mountain, Calaveras county.....Sale June 1

Union Tunneling, Humboldt, 50c and 50c.....Santa Clara, N. T.
Umatilla, Reese River.....Annual Meeting May 17

Wide West, Calaveras county.....Stockholders' Meeting May 31
Wall Street, Reese River, 50 cents.....Sale June 18
Walipi, San Francisco District.....Sale June 11
Whitton, Silver Mountain, 50 cents.....Sale June9

Zenith, Mountain Ranch, 50 cents.....Sale June 18

* When the place of business is not mentioned above, its location is at San Francisco.

Advertised in Other San Francisco Papers.

Amador Cons., Amador, R. R., $5.....Sale June 15
Amargosa, Salt Spring, four dollars.....Sale June 11
Arandor Coal.....Sale May 18
Agamemnon, Kersey, 5c, 3c and 5c.....Sale June 14
Arlington, St. Mary's, 10 cents.....Sale June 8
Andes, Gold Hill, $2.50.....Sale May 14
Arizona Cons., Eureka, 20 cents.....Sale June 15
Alameda.....Sale May 18
Argent Oro, Reese River, $1.....Sale June 18

Big Blue Lead, Cave, $1.....Levied April 4
Buckeye, Argentine.....Annual Meeting May 9
Baja California, San Antonio, $1.....Sale June 7
Black Ledge, Reese River.....Sale May 8
Black Ledge, Reese River, 50 cents.....Sale May 28
Blanding, Devil's Gate, 50 cents.....Sale May 23
Bodie Bluff Cons, Bodie.....Annual Meeting May 20
Bodie Bluff Cons., Bodie, $1.....Sale May 14
Blue Ledge, Reese River.....Sale May 19
Beaver.....Meeting May 14
Bodie Cons., No. 2.....Meeting May 27
Bay, Clayton, 50 cents.....Sale May 31
Blue Jacket, Devil's Gate.....Sale May 18
Baltic.....Sale May 30—Virginia
Bay of Meudercy, San Cruz, 25 cents.....Sale May 16
Buffalo, Calaveras, 50 cents.....Sale June 10
Boyce & Reynolds, $1.....Sale June 11
Birdseye Fay, Chimelmeva.....Annual Meeting May 9
Buckeye, Devil's Gate, $3.....Sale May 17

Chicago, Reese River, $1.....Sale June 11
Crockett, Esmeralda, $2.....Sale June 9
Choliar, Virginia, $12 50.....Sale May 28
Caledonia Tunnel, $3.....Sale May 25
Central, $15.....Sale May 10
Coldwell, $1.....Levied April 4
Calaveras, Iron Mountain, 25 cents.....Sale May 18
Charles Cany.....Sale May 24
Chrysopolis, Virginia, $1.50.....Sale June 10
Cosmopolitan, Gopher.....Sale May 17
Coral, Amador.....Sale May 21
Codicia, San Antonio.....Sale May 9
Catalina Cons., San Pedro, 10 cents.....Sale June 11
Columbia, Tuolumne, $1.....Sale May 11
Cox & Rose, Reese River, $1.....Sale May 25
Copp, Sierra.....Sale June 11
Cole.....Sale June 8
Cosala, Cosala, $2.....Sale May 25
Cedar Hill.....Special Meeting June 4
Columpio, Cosulo.....Sale May 18
Crown Point, Gold Hill.....Sale May 28
Cortez, Big Creek.....Sale May 23
Chrysopolis, V. D.....Annual Meeting May 20
Coral Hill, Amador, 60 cents.....Sale May 28

Dunkirk, Reese River, $1.....Sale June 4
Darrah, Amador, 50 cents.....Sale June 3
Desoto, Star, $2.....Sale May 18
Diana, Reese River.....Sale June 3

Eveca Cons.....Special Meeting May 28
El Toro, Panuco, $3.25.....Sale May 11
El Taste, Sonora, Mexico, $3.....Sale May 16
El Dorado, Virginia, $6.....Sale May 11
Eclipse, Reese River.....Sale June 10
Ethan Allen, $1.....Sale June 4
Emilia, Guerrero, 25 cents.....Sale May 30
El Alamo de San Antonio, San Antonio, $1.....Sale June 10
Exchange, Low Divide, 13 cents.....Levied April 21

Franco Americana, San Antonio.....Sale May 21
Fork, 25 cents.....Sale May 25
Flora, Reese River, $1.....Sale May 11
Flor de San Antonio, San Antonio de la Huerte.....Sale May 12

Gratten, Echo, 10 cents.....Sale May 28
General Grant, Slate Mountain, 50 cents.....Sale June 11
Governor Downey Cons., Buena Vista, $1.....Sale June 17
Guadalupe, 50 cents.....Sale May 28
Guadalupe de Los Angeles, Durango.....Sale May 2
Garibaldi, Aurora.....Sale May 18
Green, Gold Hill.....Sale May 25
Green, Gold Hill.....Annual Meeting June 4
Golden Gate, Gold Hill, $1.....Sale May 26
Gold Rock, Murphy's Camp.....Sale May 28
Governor Seymour, Reese River, 50c and 50c.....Sale May 21
Great Western, Esmeralda, 20 cents.....Sale May 15
Green Lode, Holcomb Valley.....Meeting May 10
Germania, No. 2, 20 cents.....Levied April 23
Good Return, Inyo, 25c and 50c.....Sale June 8
Grand Turk, Gold Hill, 50 cents.....Sale May 31
Green Lode, Hilcomb Valley.....Meeting May 10

Hornet, Reese River, 50 cents.....Sale May 10
Hawley, Devil's Gate.....Sale June 1
Harkey, Reese River, 50 cents.....Sale May 13
Hale & Norcross, Virginia.....Sale May 23
Hartford, $1.....Sale May 30
Humboldt, Sierra, $2.....Sale May 25
Heidleberg, Tomales Pais, 10 cents.....Sales June 1

Ironsides, Esmeralda, 25 cents.....Sale June 10
Iowa.....Adjourned Annual Meeting May 11
Indian Valley.....Sale May 16
Imperatrice Eugenie, Blue Mountain.....Sale May 11
Irving, $2.....Sale May 16—Virginia
Independent, $5.....Sale May 19—Gold Hill
Insurance, Virginia, $1.....Sale June 20

Jesus Maria, Sonora, $1, 50c, 25c, 5oc and 5c.....Sale May 16
Jewel, Devil's Gate, $4.....Sale May 25

Kentucky, Copperopolis.....Sale May 11
Kohler Brothers, Mexico.....Sale May 26

Laura Johnson.....Sale June 3
Lander County Ophir, Big Creek.....Sale May 23
Los Cruzecitas, San Xavier, $6.75.....Sale June 13
Las Cruzecitas, San Xavier.....Annual Meeting May 18
Lafayette, Gold Hill, $5.....Sale June 1
Langhorne Cons., Summit.....Meeting May 10
Lady Bryan.....Meeting May 25
Lady Bell, Del Norte county, 10 cents.....Sale May 28
La Providencia, $1.....Sale June 6
Lone Star, Reese River.....Annual Meeting June 6
Libertad, Ures.....Special Meeting May 9

Monster Hill, Inyo, 25c and 50c.....Sale May 30
Minerva, Virginia, $25.....Sale June 4
Moss, Virginia, $2.....Sale May 13
Monster Cons., 50 cents.....Sale May 14
Monterey, Devil's Gate.....Sale May 27
Mosquito Quartz, Calaveras county.....Sale May 9
Monitor, Silver Mountain, $1.....Sale June 10
Mandat, Del Norte, 50 cents.....Sales May 10 and June 3
Metropolitan, Inyo, 25 cents.....Sale June 1
Mount Washington, Devil's Gate, 50 cents.....Sale May 23
Mount Eden, Gold Hill.....Meeting May 17
Magna Charta.....Special Meeting June 1
Mount Vernon, Smoky Valley.....Annual Meeting May 19
Mammoth Ledge, Low Divide, 50 cents.....Sale May 28
Michigan.....Sale May 14
Mina Prieta, Ures, $40.....Sale June 18
Mina Prieta, Ures.....Meeting May 10
Mina Prieta, Sonora, $5.....Sale May 13
Morning Call, Big Creek.....Annual Meeting May 9
Mountaineer, Arizona.....Quarterly Meeting May 11
Mount St. Helena, Bear, $1.....Sale June 2
Moloues & Stanislaus, Carson Hill, $2.50.....Sale June 18

North Potosi, Virginia.....Sale May 19
North Potosi, Virginia, $12.50.....Sale June 11
North Star, Reese River.....Sale May 30
Nueva Fortuna, Cacachilas, 50 cents.....Sale May 31
Nelson Cons. Gold Hill, $2.....Sale May 26
New England Cons., Santa Catalina.....Sale May 25
Nevada, Justice, $20.....Levied April 9—Virginia
North American, Gold Hill, $20.....Sale May 24—Virginia
Nebraska, Santa Catalina, 25 cents.....Sale May 30
North Valley Forge, Big Creek.....Sale May 23
New Era.....Annual Meeting June 0

Ossipee, El Dorado.....Sale May 18
Occidental, Soledad, 30 cents.....Sale June 15
Omega Gold Hill, Virginia, $25.....Sale June 4
Owens River, Inyo, $18.50.....Sale May 28
Overman, $30.....Levied April 16—Cold Hill
Ontario, Reese River, $1, $2 and $3.....Sale May 25
Original Croesus, Sierra, $1.....Sale June 11
Original Croesus, Sierra, $3.....Sale June 20
Old Hickory, Amador, Reese River, $1.....Sale June 10
Oceola.....Sale June 3—Virginia
Ozark, Gold Hill.....Meeting May 9

Progress, Reese River, $1.....Sale June 18
Peyton, Virginia, $2.....Sale May 12
Prince Imperial, Blue Mountain.....Sale May 11
Pride of Nevada, Reese River, 25 cents.....Sale June 14
Pacific Paint M. & M., $2.....Sale May 21
Porter, Virginia, $5 and $5.....Sale May 26
Planet, Williams' Fork.....Adjourned Annual Meeting May 16
Paget, El Dorado county.....Annual Meeting May 9
Paget, El Dorado county, 50 cents.....Sale June 15

Rhodes Diggings Quartz, Rhodes Diggings.....Sale May 20
Rosario, Copala.....Sale May 0
Rothschild, Inyo.....Sale May 23
Real del Monte, Esmeralda, $20.....Sale May 28
Revenue, Reese River, $1.....Sale June 18
Rockwell, Ravenswood, 50 cents.....Sale June 4
Red Jacket, Reese River.....Sale May 31

Salt Spring Valley, S. S. Valley, 10 cents..Sale June 1—Jenny Lind
Stonewall Cons., Last Chance Hill, $1.....Sale June 15
Santa Rita, Inyo, 25 cents.....Sale May 30
Salinas.....Sale May 30
Standard, Reese River, 50 cents.....Sale June 8
Santa Teresa, Mexico, $2.....Sale June 3
Shoshone, Lander county.....Sale May 17
Surprise, Mariposa.....Sale May 25
Sumner, Kern river.....Meeting May 14
Sacramento & Meredith, Cedar Hill, $2.50.....Sale June 8
Sickles Colorado Prospecting, $50.....Levied April 16
San Francisco, Gold Hill, $4.....Sale May 13
Salamander.....Annual Meeting May 10
Spanish.....Sale June 1—Virginia
Sides.....Sale May 20—Virginia
Santa Rosa, Virginia, $1.....Sale May 25
Sheba, Star, $5.....Sale May 23
Sutro, $1.....Levied April 30—Virginia
Sixty-Ninth.....Sale May 23—Nebraska
San Lorenzo, Santa Cruz, 50 cents.....Sale May 9
Sarah Frances, Webster, 15 cents.....Sale May 18
Sarah Frances, Webster.....Quarterly Meeting May 11
Silver Creek.....Annual Meeting May 9
Sierra Nevada, $5.....Sale May 14
S. F. and Castle Dome, Castle Dome.....Annual Meeting May 9
San Francisco, Gold Hill, $3.....Sale June 28
Star, Big Creek.....Sale May 23
South Central, Big Creek.....Sale May 23
San Mircial, Sonora, Mexico, $1.50.....Sale June 22
Sailor, Blue Mountain, 20 cents.....Sale June 15
San Carlos.....Quarterly Meeting June 8
San Jose de Ventanos, San Dimas, $5.....Sale June 17
Siskiyou, Humbug Creek, 50 cents.....Sale May 24
Smith O'Brien, Devil's Gate, 50 cents.....Sale May 10

Tulare, Inyo, 25 cents.....Sale May 18
Tuscoran, Reese River, 50 cents.....Sale May 24
Troy, Reese River, $1.....Sale May 26
Tri-Union, Flowery, $1.....Sale May 10
Tennessee, Echo, 50 cents.....Sale June 18
Teutonia, Gold Hill, 50 cents.....Sale May 25
Teutonia, Gold Hill, $1.....Sale June 4
Tecolota, San Dimas, $1.....Sale June 14
Tuolumne Mountain, Tuolumne, 50 cents.....Sale May 21
Tri-Union, Flowery.....Annual Meeting May 12
Tornado.....Meeting May 18

Union No. 2, Reese River, $1.....Sale June 4
United States, Virginia.....Sale May 25
Uncle Abe, Inyo, 50 cents.....Sale June 7
Utica, Angels Camp, $2.....Sale May 16

Virginia Hill, 50 cents.....Sale May 14
Valparaiso, Tuolumne, 3 assts, $3.....Sale June 4

Washington, Indian Bar, 50 cents.....Sale May 16
Weehawken, Devil's Gate.....Sale May 18
West End, Slate Mountain, 50 cents.....Sale June 20
White & Murphy, Virginia, $7.50.....Sale June 14
Weal Chance, Flowery, 37½ cents.....Sale June 13
Whitman, Indian Springs, $10.....Sale June 1
White Cloud, Virginia, $1.....Sale June 22
Wide West, Esmeralda.....Sale May 9
Willow Cons., Summit.....Meeting May 10

Young Harmon, Placerville.....Annual Meeting May 10
Yankee Blade, Reese River, $2.....Sale June 20
Yellow Jacket, Cold Hill.....Sale May 17
Yosemite, Reese River, 25 cents.....Sale June 4

[The mining community begin to appreciate our reasonable rates of advertising, and are turning their patronage to the journal most properly entitled to receive it. The advantage to shareholders of having all mining notices concentrated in one mining journal, is obvious to all, and our terms have been established with a view to effect such a consolidation; and most companies having an object for publishing in any other particular paper, can consequently afford to have their notices appear in our journal also.—Eds. Press.]

THE Gold Hill *News* says that a large party of well known citizens of Virginia will shortly start for the famous Jordan creek mines, near Boise. They go with Jordan himself, the man after whom the mines are named.

TREASURE SHIPMENTS.—The total amount of treasure shipments from this port, since the first of January last, have been $21,893,228
Corresponding period last year..... 15,892,103

Excess this year $6,001,124

Mechanical Department.

Home Industry.

We have already, we claim, fulfilled our promise to make this paper a faithful and reliablo expositor of the material wealth and progress of the Paeific Coast. To rendcr it thus worthy the great intercsts it represents, we have spared, so far, neither expense nor labor; and in our enlarged condition will be found every week as copious and completc an account of mining intelligence of every description, and from every section of the country, as it is profitable, to the reader, to collate.

In its second capacity, as a mechanical and scientific organ, we intend it to be equally complete. Our pages have always been freely opened to the illustration of local inventions, or improvements in machinery, both agricultural and mining, and to the publication of scientific progress. Through our large circulation, all interested, by being made familiar with, may have the advantage of the collective mechanical and inventive genius of the State. Up to this time, however, we have not had it in our power to render this department as complete as dcsirablc, but we now propose to supply the defieieney.

Few persons, even residing in San Francisco, whose pursuits, or habits of observation, do not bring them in contact therewith, have anything like a correct estimato of the extent and cbaraeter of the different mannfactories of this city. Wc propose, therefore, to commence next week a series of articles, to appear permanently and regularly, on all tbe branches of mcchanical art in the city, giving a conciso history of each until we have exhausted the subject. By this means we hope to gather and distribute much important matter, relating to the progressive history of the State, and mako our paper, what we desire it to be, a valuable and desirable weekly visitor to every household, counting-room aud shop in the State. A gentleman, known favorably as a writer in our pages has been selected for this duty, and we feel assured, our friends and patrons will gladly afford him, when he calls upon them, such information as may be necessary, to make our efforts in this respect, successful aud satisfactory.

What is Heat Lightning?—The flashes of lightning, often observed on a summer evening, unaccompanied by thunder, and popularly known as "heat lightning," are merely the light from diseharges of electricity from an ordinary thunder cloud beneath the horizon of the observer, reflected from clouds, or perhaps from the air itself, as in the case of twilight. Professor Henry says that Mr. Brooks, one of the directors of the telegraph line between Pittsburg and Philadelphia, on one occasion, to satisfy himself on this point, asked for information from a distant operator during the appearance of flashes of this kind in the distant horizon, and learned that they proeeeded from a thunder storm then raging two hundred and fifty miles eastward of his place of observation.

Screwing on Nuts.—Wc have sometimes known nuts to be found so tight that no wrench would remove them. This was beeause they had been held in the hand till they beeame warm, and being then applied to very cold screws in winter, they contracted by cooling on, and thus held the screw with an immovable grasp. Always avoid putting a warm nut on a cold screw; and to remove it, apply a large heated iron to contaet with the nut, so as to heat and expand it, and it will loosen at onee—or a cloth wet with boiling water will aceomplish the same purpose.

In proving some 68-pounders, lately received at Woolwich from the Lowmoor Iron Contraet Works, one of the guns gave way at the breech, and was shattered to pieces—a very unusual circumstance. It was discovered that a bar of wrought iron, weighing eight or ten ponnds, had fallen into the casting machine, as the bar was found imbedded in one of the fragments.

Barrels without Hoops.—A workman in Paris has succeeded, it is said, in making barrels without hoops as solid as the best hooped barrels in the world. The diseovery, which has been a desideratum for some three thousand years, is now undergoing examiuatiou before the Academy of La Rochelle.

[Written for the Mining and Scientific Press.]

"Latent Heat" Compatible with Thermodynamics.

BY J. H. CHURCHILL, A. M.

"Latent heat!"—a force in any one of its forms may still exist, althougb latent. To Dr. Black we are indebted for tho first application of the term. Tho force is concealed from our senses, as heat, is its literal meaniag. He thus defined it in his lectures when James Watt studied among his pupils in Glasgow, just a hundred years ago. Cautious, as a true man of science, to admit nothing beyond the present span of his experience, his definition tallies to-day with tbe increased growth of knowledge. Dr. Robison, another of his pupils and his successor, thus reports him: "Many have been the speculations and views by ingenious men about this union of bodies with heat. A nice adaptation of conditions will make almost any hypothesis agree with the phenomena. I therefore avoid such speculation as taking up time which may be better employed in learning more of the general laws of chemical operations. I content myself with saying, that in liquefaction and vaporization, water absorbs a great quantity of heat, because this expression immediately raises the notion of a sudden and somewhat copious accumulation of heat; and I say that this great quantity of accumulated beat is latent in the water or vapor, merely because tho thermometer, our usual tost, does not give us any indication of its presence—of which presence we are not allowed to doubt when we see the same quantity emerge again in its usual thermometrical activity when the water freezes or the vapor collapses. Without saying that I have any clear conception of the union between bodies and heat, I am well entitled by the phenomena to say that this vaporous combination differs in some peculiar manner from that which merely produces expansion"—i. e. expansion or extension of the fluid in the thermometer without any other change.

"We have learned that when ice molts, or when water boils, the cause of the phenomenon is the same with that of the expansion, because we observe that what produces a double or triple expansion also produces a double or triple liquefaction or vaporization, and that congelation and condensation accompany contraction, which is always produced by the abstraction of what was the cause of expansion"—i. e. as in the thermometer. "But we see reason to think that the manner in which the general cause of these phenomena acts in producing its effects is somehow different."

The difference thus noted by Black is determined by the laws of thermodynamics and the correlation of forces to be due to a conversion of force, in the form of heat, into force in the forms of modified physical and chemical properties.

Towards the close of the century, Dr. Thomas Young discovered the mode of interference of different waves. Hence has grown up the mathematical theory of undulations which explains so completely the various phenomena which are common to the different forms of force, whether developed as light, or heat, or sound, or electricity, etc., etc., as to have obtained almost universal credence. pari passu with the more clearly demonstrable doctrine of the convertibility of each of the forms of force into another in definite proportions. The following phenomenon will have come under the notice of most. When a stone is cast into a pool of water, circular waves start off from the point where it struck. These waves consist in a succession of ridges, separated from each other by hollows. Suppose two stones thrown in a little apart, the waves starting off from one center will cross those starting from the other. Three cases will now occur—one ridge will cross another ridge, one hollow will cross another hollow, or one ridge will cross a hollow. In the first two cases the forces of the descending stones, which have assumed the visible shape of waves, will concur. They will unite in raising the water in one case and in lowering it in the other. The ridge will be higher, the hollow lower; but where ridge meets hollow—where one wave "interferes" with the other—there the one neutralizes its own amount of force in the other, and if the original forces were equal, the result is an undisturbed spot among these sets of waves—one balances the other. These two mechanical forces are now latent—unseen. One sound may equally be made to overcome another—the two result in silence. One wave of light has been made to extinguish another—darkness the common end. This is the basis of that wonderful instrument of modern science, spectrum analysis. But a much more interesting result to those who are charmed with the beauty of a natural phenomenon, occurs when light is made to meet the thin film of a soap bubble. Part of it is then reflected from each surface of the film, just as a stage ghost is reflected from the polished surface of plate glass; but in the soap bubble the thickness varies. Here the light reflected from the inner surface coincides with and intensifies the red ray; there where the film is thinner it coincides with and intensifies the blue ray, and so of others, while those lost to view are neutralized. An illustration perhaps better known to Californians will impress this idea. Peacock ore owes its beautiful tints to the varied thickness of the film of oxide on its surface. The writer recently found several instances of such tints on some waste tin that had been weather worn on our sandhills. We owe it to chemistry that we know that matter is indestructible. We are indebted to the science of heat for the recognition of the fact that force ever changing its form is no less immutable in quantity.

Treating Mineral Oils.—Mr. Louis Martin, of Paris, proposes that, after the oils or hydro carbons have been treated with sulphuric acid and soda, to mix them with from 1 to 10 per cent. of a mixture composed of 1 part bichromato of potash and 2 parts caustic soda, at 36°, and distil. Any salt of chromium may be used, and any alkali may be substituted for soda, The oils are then distilled with sulphuric acid and soda, as before.

Advantage of Railways.—A single generation since, the town of Middlesborough-on-the-Tees, in England, consisted of but one house. A railway, making it a port for the coal shipping trade, had raised its population to 7,893 at the census of 1851; then came the discovery of the value of the iron-stone in the neighborhood, and the result is that the population now exceeds 23,000.

Preventing Incrustation of Steam Boilers.—Mr. John Travis, of Royston, Lancashire, proposes the use of Irish moss, or silicate, arseniate, or phosphate of soda, to prevent incrustation of steam boilers. From 6 lbs. to 8 lbs. per week usually suffices for a 40 or 50 horse-power boiler.

F. S. Barff, Dublin, for preserving and hardening brick, stone and other surfaces, and timber, proposes to use soluble silicate of soda or of potash, by preference the silicate of potash, with a mixture of sulphate of barytes and carbonate of lime. The mixture is laid on with a brush.

Masses of platinum, weighing 53 ounces, are frequently smelted in 13 minutes by the oxhydrogen blow-pipe, by Dr. Roberts, dentist, New York. So says the *Scientific American*.

The milk condensors have begun to condense cider by the same process as that by which lacteal fluid is converted into lactcal solid. It is reduced to one-seventh of its bulk, a beautiful amber-colored jelly. By the addition of six times its bulk of water, it becomes clear cider again.

Indian Wrongs.—Ross Brown, in one of his recently published letters, lays the blame of the present Indian hostilities in Arizona, upon the whites. He convicts an army officer of perfidy, in having, under pretense of friendship and to form a treaty, allured some forty Indians unarmed into his camp, and then set upon and slaughtered them without mercy. This and other similar outrages, so alarmed and incensed the savages that they have formed an alliance between many tribes, and are now waging a war of extermination against whites and Mexicans.

The United States has sold some 70,000 acres of land in Tulare county, says the *Delta*, and yet we have not 20,000 in cultivation. Besides, there are yet more than 200,000 acres of good agricultural land in the county; lands which in other States would be considered of the very best quality, and every forty acres of which would constitute a valuable homestead for some thrifty family.

Hit the Nail on the Head.—A new way to get higher wages was lately devised by the nail cutters in Dudley and East Worcestershire, England. They notified the owners of the mills that unless they received an advance of six cents per thousand, they intended to strike for twelve cents.

An Item from China.—Hongkong is to be blessed with a new coin, which will do away with the miserable substitutes for change so long current. The new coinage consists of dimes, cents and mills, in exact accordance with our currency. The mills are to take the place of the copper "cash," and have a hole drilled in them after the Chinese fashion for the purpose of stringing them.

Patent Department.

SOMETHING NEW IN THE SEWING MACHINE—*A California Invention.*—Perhaps no machine of modern invention has attracted more attention or come into more general use and knowledge than the Family Sewing Machine. It has already proved one of the greatest of boons to the domestic circle, relieving the housewife, daily, of many hours of toil and wearisome "stitch, stitch, stitch." Long and steady use of these machines, however, it is found is working a sad detriment to many of our mothers, sisters, and daughters, from the peculiar effort of the muscles required to keep them in motion; that effort having to be made in the worst possible position of the body—a sitting posture. This condition of things, it has for some time been feared, would drive the sewing machine, after all, from general use in the parlor and sitting room, to the shop, where work enough could be collected to make steam or some other motive power available.

Just at this point, however, one of our numerous California inventors, Mr. Jacob Zuckerman, of San Jose, comes in and supplies the very thing we need, in the way of a "Self Operating Sewing Machine," which requires no further effort on the part of the person tending it, than to guide the cloth in its movement under the needle. The machine is started and stopped by merely touching a knob, much like the stop of an organ, and it stops almost instantaneously, instead of continuing in motion for quite a number of stitches, as is the case with other machines. Another and important advantage derivable from this self operating principle, is the perfect regularity of motion obtained, instead of the irregular jerking motion inseparable from the treadle, and which is the great cause of the present machines in use getting out of order, breaking threads, needles, etc. It operates upon the principle of clock work.

The apparatus for running an entire day, can be wound up by a ten-year-old child, in five minutes. The inventor is now exhibiting one of these machines for a few days in a room in the Masonic Temple, on Post street. Every lady in the city should go and see it. We are quite confident that any one who once sees it will never think of buying any of the present make after these are in the market. The inventor already has quite a list of orders to be filled as soon as arrangements can be made for their manufacture.

NEW STEAM VALVE.—We saw a few days since a new balance steam valve which is being attached to an engine now in process of construction at the Pacific Foundry in this city. This valve is the invention of G. W. Bollen, a mechanic, employed in the finishing shop attached to that foundry. The invention claims to be an improvement, operating as a balance slide valve, and is so arranged between two cheeks, that the pressure on one side is almost perfectly balanced by that on the opposite side. The valves are furnished with a separate valve seat, by which the openings of the cheeks are adapted to the steam and exhaust passage of any ordinary cylinder. The principle of the operation of this valve, so far as the lap, lead, travel and expansion are concerned, is the same as that of the ordinary three ported valve; but instead of working under the pressure, and with the friction of the ordinary valve, it need work with no more than may be required to keep it tight. There is no unbalanced pressure downward, and the pressure upon the cheeks is sustained by the steady pins or bolts with which they are adjusted and secured. These valves may be readily applied to almost any cylinder in use. The invention was originally made in St. Louis, about the time of the breaking out of the war; but the inventor having soon thereafter occupied a position in the army little has been done toward introducing it up to the present time. We shall note with pleasure the progress of the present application.

MR. M. W. PEASE, of Davies county, Ky., has received a patent for a "Mode of Securing a Desirable Color to Tobacco." The inventor claims, in his specifications, the adaptation of an instrument for deadening the tobacco while growing in the field, by belting or cutting around the stalk, and piercing the same in or near the belt or cut, to secure a desirable color, lessen labor, etc.

GATHERING MECHANISM FOR SEWING MACHINES.—Henry S. Brown, of New York City, has secured a patent for the making of gathers by a sewing machine, by the micro action of the needle and thread. The gathers are thus made in a piece of cloth, and securely fastened by the stitching apparatus, while the feeding mechanism is arranged and operated accordingly.

NEW EXPLOSIVE COMPOUNDS.—During the week ending March 31, two different patents were issued at Washington for the manufacture of explosive compounds, designed to take the place of ordinary gunpowder.

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. THE MINING AND SCIENTIFIC PRESS PATENT AGENCY has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

The Mining and Scientific Press Patent Agency.

OFFICE, 57, GOVERNMENT HOUSE, SAN FRANCISCO.

Information About Obtaining Patents.

The Patent Law Amendment Act, of March 4th 1861, and March 3d 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent?" A positive answer to this question is only to be had by presenting a formal application for patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his pinns to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the MINING AND SCIENTIFIC PRESS. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Preliminary Examinations.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search made at the U. S. Patent Office, Washington, through the medium of our associate in that city, to ascertain whether among all the patents and models there stored, any invention can be found which is similar in character to that of the applicant. On the completion of this special search we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollars. This search, though it involves the expense just named, will usually prove satisfactory. If the same device has been before patented, the time and expense of constructing models, preparing documents, etc., will in most cases be saved; if the invention has been in part patented, the applicant will be enable to modify his claims and expectations accordingly. Many other obvious advantages attending the Preliminary Examination; although the strictest search does not always enable the applicant to know positively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publication; or some other person has been previously rejected on an analagous device; or some other invention for a similar purpose, but partially resembles the applicant's in its construction; or the Government makes a minority uncommon decision. Against none of these contingencies does the Preliminary Examination provide; it will, however, generally inform the applicant whether an improvement similar to his and used for the same purpose has ever been patented or not in this country.

Persons desiring the Preliminary examination are requested to remit the fee ($10), and furnish us with a sketch and description of the invention.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian, Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of governments that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $30. If the patent is granted no further agency expenses ensues.—If the application is rejected we cause a thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have excess to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client. For this service we make no charge. If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The laws requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimensions; it should be neatly made, of hard wood or metal, or both varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: DEWEY & Co., Mining and Scientific Press, rooms 56 and 57, Government House, corner of Sansome and Washington Streets, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail.—The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due, and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued, the applicant will be notified to remit the last installment of the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the status of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months and even more. We make a special point to forward our cases as rapidly as possible.

Return of Models.

Under the new law, if the applicants case has been rejected he is entitled to withdraw his model from the Patent Office.

This law applies to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expense.

Application for Patents, Designs, Trade-Marks, Labels, etc.

Under the new law patents may be taken out for any new form of any article, also for tools, patterns, castings, machine-frames, stove-plates, borders, fringes, all new designs for printing, weaving or stamping upon silks, calicoes, carpets, oil-cloth, prints, paper-hangings, and other articles. Trade-marks, labels, envelopes, boxes and bottles for goods, may also be patented; likewise all works of art, including prints, paintings, busts, statues, bas-relief, or compositions in alto, or basso relievo, new dies, impressions, ornaments to be placed upon any article of manufacture, architectural work, etc.

Our facilities for the prompt preparation and securing of patents are of the most extensive character and our charges are very moderate.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the tariff of fees established by law:

On every application for a design, for 3 years and six months...	$10
On every application for a design, for seven years...	15
On every application for a design, for fourteen years...	30
On every caveat...	10
On every application for a patent...	15
On issuing each original patent...	20
On filing a disclaimer...	10
On every application for a re-issue...	30
On every additional patent granted on a re-issue...	30
On every application for an extension...	50
On the granting of every extension...	50
On appeal to the Commissioner from Examiners-in-chief...	20
On every appeal to the Judges of Circuit Court, D. C...	25

Infringements.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunction from the Court, to an arrest or prohibition from the employment of his machinery, shop, works, factory and men in production of the article.

In addition to injunction the infringer is liable to be mulched in treble the amount of damages awarded by the jury. The maker, the workman, the seller, and the purchaser, if a user, are all liable either collectively or individually.

Having access to all the patents, models, public records, drawings and other documents pertaining to the Patent Office, we are prepared to make examinations and give opinions upon all infringement questions, and to advise as to the scope and validity of patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Appeals.

In rejected and other cases, the new law provides for an appeal from the Examiner-in-chief to the Commissioner in person, on the payment of a fee of twenty dollars. A further appeal may be taken from the decision of the Commissioner to the U. S. Court, of the District of Columbia. These appeals are heard by any of the Judges before whom the applicant elects to bring the case. No Jury. All the papers, models, etc., are sent by the Commissioner to the Judge, who then reviews the case, and either sustains or reverses the Commissioner's decision.

The party taking the appeal pays an additional fee of twenty-five dollars. The Judge appoints a day of hearing. The applicant can appear in person or by counsel to state his case and file a written argument. Five days are allowed the opponent to put in an answer, and a similar period to the applicant for a closing reply.

Many important cases are brought before the Judges on appeal and the decisions of the Commissioner are not unfrequently reversed.

We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

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San Francisco:

Saturday Morning, May 7, 1864.

Our present issue consists of Twenty Pages. The reader should carefully stich or pin the sheet together hefore cutting the leaves.

Correspondence.—An article from "H.," Forhestowu, will appear soon. "From the Reese River Mines," by "X," in type for next week.

THE PROPOSED MINING TAX.

The telegraphic report of the proposition before Congress to levy a tax of five per cent. on the gross yield of the mines, is producing a most profonnd sensation throughout this State and the adjoining Territory. There is imminent danger of its final passage, unless prompt means are taken to place the matter in its true light before our National legislature. It is with this view, and to avoid so great a calamity, that the San Francisco Stock and Exchange Board have promptly taken the matter in hand, and before this meets the eye of the reader, will doubtless have forwarded to Washington, by telegraph, a carefully prepared memorial protesting against the policy of such a tax. No body of men on the Pacific coast can speak more authoratively, or with greater weight, in this matter, than this organization. Mr. Conness has also telegraphed to his friends in this State that he will do everything in his power to arrest the measure. The argument in this matter has been so often and so ably placed before the public, that it would he a useless repetition to re-prodnce it at this time. Our readers upon this side of the contiuent perfectly understand the merits of the question; and have the fullest comprehension of the consequences to result from the passage of the measure as proposed. Newspaper comments are now too late to effect results in Washington. The telegraph alone can, at the present time, render efficient aid; and it will doubtlsss he brought fully into requisition.

It has been a matter of the utmost difficulty for those thoroughly posted by residence and experience among our mines, to convey, by words spoken or written, anything like an intelligent comprehension of our mining intcrests to parties who have never visited this State. People at the East take notice of the continued and, at present, increasing flow of gold from San Francisco to New York, and they occasionally meet with a returned Californian who has secured a fortune in our mines. These are the salient points—all the halance of the picture is hidden in a deep shade, which they will not or cannot comprehend. It appears incomprehensible to the great multitude at the East why everyhody does not get rich in California, and each thinks tbat if he should come out he would certainly return with a fortuue. Nothing can convince the great masscs, but an actual trial, that not more than two or three in a hundred can win anything that can he called a prize.

So it is with our law-makers at Washington. It appears to he an almost impossible accomplishment to make our national representatives from other States comprehend, in a rational manner, the true relation of business and facts, in connection with our mining industry. And yet, without such a comprehension, how is it possible for them to construct laws which shall so lay the hurthens of taxation upon these interests that they shall fall upon all connected therewith in due proportion. Equality in taxation is a landmark which should never he lost sight of. Let us hope that our legislators will he wisc in time, and listen to the counsels of such men as are familiar with all the bearings of the question at issuc, and whose patriotism and nuselfishness with regard to the general burthens of taxation cannot he called in question. Of such is a majority of our delegation in Congress; and such are the men in our own midst, who, in the present crisis, are endeavoring to make their voices heard at Washington through the telegraph.

MINING SHARE MARKET.

The Stock Market has shown an increased activity the past week. Stocks have generally changed hands at declining rates. The pressure upon the money market for means to pay duties on bonded goods, and the anticipated tax of 5 per cent. on the gross yield of the mines, has contributed to the depression in the money market, and forced upon sale large quantities of stocks that would otherwise have lain quiet. The sales of the week have reached $649,951 against $820,626 last week.

Ophir has still further declined, from $1,428, our closing figures of last week, to $1,010 at last evening's board. No improvement can he expected in this stock until farther developments are made in the mine. Active explorations are now in progress to that end, which can scarcely fail to meet with early success.

Gould & Curry shares have also been compelled to yield to the universal pressure, and have dropped from about $4,500 to 3,875, at yesterday's board. A dividend of $125 per foot has been paid the past week. The receipts of bullion, for the past month, have been unusually large, proviug that this depression is from no fault of the mine.

Chollar has been in less request, during the week, at $350. It suddenly advauced to $400, before yesterday's board, in consequence of some favorable report with regard to the injunction against it hy the Potosi.

Daney has not been much sought after though freely offered at reduced rates. It closed the week on Saturday at $105, dropped to 84 on Tuesday last, and closed yesterday at $90.

Savage has been heard from at $2,200. A dividend of $50 per foot was made payable on Tuursday last.

Michigan found a purchaser on Thursday at $37½; Central American is quoted at from $17@18; Baltimore American quiet at from $50@52½; Kohler Brothers at 28; Rock Island at 39; Bullion 80@90.

North American has been in less requsst; it may he quoted firm at from $155@165.

Nevada, J. G. has been in light request at about last week's figues.

Burning Moscow is still comparatively quict; it may he quoted at from $90@95. Blue Ledge has materially improved, and may be quoted at $23.

North Potosi has met with a large husiness, ranging through the week from about $70@85, it suddenly advanced before last evening's board to 98, huyer 15 days; 1228 shares have changed hands.

Pride of the West has been freely offered, at gradually declining figures; commencing at $75, it gradually dropped to 47 before last evening's board. It is intimated that this company will declare a dividend of $5 per foot on their capital stock about the 10th of the present month

Lady Bryan has met with an increased business, at slightly decliuing rates. We notice sales of 3680 shares, at from $37@49, closing at 40, r. w.

Buckeye is quoted at from $14@16. The superintendent writes hopefully from the mine. Golden Age and Empire is quoted at $35; Californiia Tunnel at $20@25; Harmon at $24.

Seneca sold at $27, on Saturday, remaining quiet until Thursday, when it dropped to 19. Beaver is quoted at 29; Santa Rosa, 4½@7½; Sacramento & Meredith, 31.

We quote Williams & Kellinger $55: El Dorado 35; Mary Ann 95; Imperial 150; Golconda 55; Crockett 7½; Badjazette 25@28; Knickerbocker 27; Sweet Vengeance 20.

Real del Monte has been more freely offered at declining rates. Opening at $67@72, it gradual.y declined to 53 on Thursday, hut closed yesterday with a single transactiou of ten shares at 60. Shares to the number of 520 have changed hands against 384 last week.

Wide West has sold from $24@26, closing at the latter figure. Silver Hill was sold at 16; Coso at 5; Utah, 31.

The Little Dutchy of Schleswio, the possession of which just now is setting all Europe in commotion, embraces within its diminutive bordsrs the still lesser subdivision known as Angelu—the little corner from whence went forth that hardy and energetic colony whose decendants afterwards became famous as *Anglo-Saxons*, and from whom our own American nation has descended. It would seem that the descendants, even to the latest generation, have lost nothing of their original power or inclination to make themselves famous. The original stock were always a people distinct from even their most intimate and surrounding neighhors, and have continued so to the present day, through all the three centuries of their Danish subjection. This characteristic of exclusiveness will, in all probability, continue, even though they may now he compelled to submit again to the German sway.

The Geological Society of England have recently been successful in connecting more intimately the English system of rocks with that of Europe. The northwestern countics contain a red sandstone which has hitherto hcen assigned to the new red sandstone or trias formation. It is now proposed to classify it with the Permian series. It is closely conformable with the magnesian limestoue, and may form the upper limit of these, the highest of the primary or palœozoic rocks. The Permian series is marked by firs, fishes, amphihra, etc. In Westmoreland, Cumberland and Lancashire, they may he divided into three natural divisions, corresponding to those of Germany. The same fossil plants have been found in the silicious works of Westmoreland and the marl of Durham. Sir R. Murchison supports the readjustment.

Prof. Silliman on His Travels.—The Esmeralda *Times* says of this scientific gentlemau, who recently arrived at Aurora City, that he had just visited Bodie District for the purpose of examining the mines. We understand that the Professor was highly pleased, and formed a very favorable opinion of the mines. He was about to visit the mine of the Real del Monte Company. Professor Silliman is an eminent chemist, geologist and metallurgist, and his high reputation gives great weight to his opinions. He is a native of Connecticut, and was for some years attached to Yale College. We learn that it is the intention of Mr. S. to visit the famous Valley and Falls of Yo-Semite, California, after which he will return to Aurora, and make a thorough examination of the mines of that district.

The Mechanics' Fair.— We would call the attention of mechanics, and our readers generally, to the advertisement in another column, of the proposed Industrial Fair which is to commence on the 30th of August next. The objects and utility of the exhibition are therein clearly set forth, and the rules and regulations for the exhibition are given in full.

Bullion from Washoe.—Wells, Fargo & Co. shipped. from their office in Virginia city, during the week ending Saturday last, bullion to the amonnt of $160,106. The amount shipped during the month of April was a fractiou short of 14 tons, worth, hy assay, $857,086.

Mill for Silver Mountain.—Judge Curtis, on behalf of parties engaged in Silver Mountain, has contracted with a foundry in Sacramento for an eighteen-stamp mill and thirty-five horse-power engine.

The Nevada *Gazette* mentions the ending of a lawsnit hetween parties in that town which had been in progress for ten years. During that time the property in dispute has been wholly destroyed.

The Washoe.—This new river-steamer starts on her first trip to Sacramento, to-day, and returns tomorrow. The supervisors of Sacramento have leased 200 feet of the levee, hetween L and M streets, as a permanent landing place for this boat.

Mining Gossip.

EDITED BY.....FRANK WARDDELL.
FOR THE MINING AND SCIENTIFIC PRESS.

A Novel Incorporation. — The San Salvador Commercial and Agricultural Company filed their certificate of incorporation, in the County Clerk's office, on the 2nd instant. The objects of the said association, are to acquire lands in the State of San Salvador, and other Central American States, for the purpose of raising coffee, cotton, sugar, tobacco, indigo, and other products; the constructing of the works necessary for the manufacturing, curing, and preparing the same for market, the purchase, shipping and selling the products of the country and generally to make use of the said lands, and all other property that may be acquired, as shall be most advantageous. The capital stock is $500,000 divided in shares of $50 each. The Trustees are John McHenry, Caleb T. Fay, Allen J. Gladding, V. B. Post and J. Dardano.

About Brokers.—An old New York broker, who has been a stock dealer for forty years, states that he never before has seen people quite as crazy as they now are. It matters not how worthless certain fancy stocks may be, they are snatched up by the eager crowd, who scarcely stop to dicker about the price. People who can command a few hundred dollars in green backs, no longer "dabble" in real estate, but rush down to Hanover and William streets, and place it in the hands of the bankers as a margin!

In Other Hands.—A new association purchased on the 30th of last month, the lease, good will, fixtures, etc., of the Stock Exchange, more familiarly known to the public as the "Open Board," of this city. The new organization who have now its affairs under their control propose admitting only one hundred members, at an initiation fee of one hundred dollars each. The present officers are as follows: President, D. J. Oullahan; Secretary, M. G. Elmore; Treasurer, C. A. Crane.

Investment.—A company of gentlemen representing some N. Y. houses, have recently arrived here, who intend investing the sum of $250,000 in the Owens River country. They feel confident, from information in their possession, that they will be amply rewarded for the investment in this rich mineral locality.

Dividends.—The Savage company declared a dividend of $50 per foot, which was payable on the 5th inst. The Gould & Curry also declared a dividend of $125 per foot on the 5th inst.

Killed.—Mr. R. E. Bellinger was instantly killed while working at the bottom of the Table Mountain, Mining Company's shaft, Copperopolis, by a tub falling upon his head.

Water.—The mountain reservoirs of the Tuolumne County Water Co., are now all filled. This must be acceptable news to the miners in that section of the country.

Creditable.—The New York Board of Brokers, have very generously subscribed the sum of $7,000, towards obtaining recruits to fill up the ranks under the command of General Hancock.

Real Del Monte Election.—At the annual election of this company, held on the the 2nd inst., the following directors were chosen: B. J. Vanderwater, William Norris, R. E. Brewster, F. R. Baby, A. Gamble, E. Jones, J. Lyon, E. F. Mitchell, J. W. Braly.

La Favorita, Mexico. — This company have now on the way to this port, per schooner Union, twelve thousand pounds of concentrated copper ore, which they expect will assay at the least calculation 75 per cent. of copper. The last report from the superintendent is a very favorable one indeed.

Kohler Bros. Company.—This Company have on the way some fifty tons of ore from their Espinosinia mine.

Buckeye.—We have been allowed to read the last letter received from the superintendent of this mine, and he appears to be very sanguine of striking the main ledge soon.

Firemen's Fund Insurance Co. — The following gentlemen were elected, on the evening of the 2d inst., as officers for the ensuing year: S. H. Parker President; M. Lynch, Vice President; Charles R. Bond, Secretary.

Owensville.—This place is growing very rapidly. There are in the course of erection fifteen or twenty buildings; stone, adobe and frame buildings being the principal style.

Died Out.—The Board of Brokers, at Gold Hill, N. T., has died out, as the business in stocks would not warrant its continuance, and furthermore most of its members were members also of the Boards at Virginia, where most of the stocks are selling.

An Opinion Worth Having.—Professor Silliman, who is considered one of the most scientific geologists in the United States, gives as his opinion, after a thorough examination, so says an Aurora correspondent of the *American Flag*, that Esmeralda is one of the richest mineral districts on the globe. After such an opinion as that, we think our friends in Esmeralda can well afford to "put on airs."

The Shelton Silver Mining Co., Argentine District, Washoe, had 900 lbs of their rock worked recently in one of the mills there, which gave the handsome result of $123 24 per ton of 2,000 lb. The success of this mine, it is claimed, proves the fact of the extension of the Comstock lode through and beyond Virginia City, to the north-east.

Copper.—The contract for the erection of the smelting works at Genesse valley, says the Quincy *Union*, has been let, and work commenced upon them. In a few months it will be demonstated beyond doubt that the copper ledges in Plumas county are the best in the State.

Good specimens of coal continue to be exhibited from various localities in Nevada Territory. The *Enterprise* hopes that some of the many mines now being worked may prove of permanent value. Every day the hills are becoming more and more bare of timber, and soon the Sierra will be the only resort for fuel. This, without a railroad, will be discouragingly expensive. Let the coal miners persevere.

Interesting Suit.—Quite an interesting suit is to take place in a few days, at which time, so it is said upon examination, many strange proceedings will be brought to light. One of the parties in the affair is a well known broker in stocks, who failed a few months ago and who recently sent his wife to the States. It is thought by many that he shipped with her a considerable amount of money, that justly belongs to the parties who have commenced the suit, they having advanced him at various times large amounts of money. So far they have been very heavy losers.

Memorial.—The 1st Stock and Exchange Board of Brokers have caused to be drawn up for their approval and adoption, a memorial with regard to the proposed Federal Mining Tax, which reflects much credit on the writer, Mr. L. A. Garnett. It has been unanimously adopted by the Board, and ordered to be telegraphed to Washington as soon as practicable. The memorial, which we would like to publish if space would allow, sets forth a plain statement of the facts in the case, meets with the hearty approval of our citizens generally, and is a fair representative of the opinions of the entire mining community with regard to the great evil that would necessarily arise if the proposed outrageous tax upon the gross income of the mines should be levied.

The Condition.—At the annual meeting of the Real Del Monte Company, held on the evening of the 3d inst., among other matters brought before the meeting, after the election of officers, was the financial report of the secretary, Mr. Willard, respecting the condition of the company, from which we learn that the debt existing on the 5th of March was $271,000, and on the 2nd of May, one day previous to the meeting, the indebtedness was reduced to $189,443, the company in the meantime having paid on notes due by them the amount of $42,400, leaving $977 cash on hand. They have received within the same time, from assessment No. 9, $47,820. Also received,

March	19,	Bullion	$11,238
April	8,	"	31,395
"	18	"	15,109
"	22	"	12,319
"	30	"	12,453

Making a total for six weeks of.....$82,514

There is still due on Assesment No. 9, $40,180, which they expect will all be paid in by the 25th instant. The report seems to be rather more satisfactorily received by the stockholders than was at first anticipated. We cannot conceive why this stock should not be up again shortly to its old market rates, when we take into consideration the amount of bullion that is being constantly taken out, the speedy reduction of its indebtedness, and the favorable prospects of soon having it a good dividend paying mine.

Another New Mine.—Among the passengers who arrived here from Mexico on the 30th of April, per steamer John L. Stephens, was Mr. O. F. Gehrike. This gentleman left San Francisco some nine months since, having been sent out by a private company, comprising some of our leading and influential merchants, for the purpose of locating or purchasing a good mine. Mr. G., we are informed, has at last, after many attempts, been very successful in securing a valuable mine, located within sixty miles of Mazatlan, and known as the Praderas gold mine. The Company here intend to incorporate at once, and thus take immediate action in the thorough development of the mine. We have seen some of the rock, and if there is much of the same description to be obtained there is no reason to complain for the want of good paying ore. The facilities of transportation we learn are also very good. Taking all things into consideration, we think the prospects of the company are very flattering.

Lucky Boy.—A young man, apparently in his 25th year, was heard to say, a few days since, in a public saloon in this city, that he had cleared in his mining speculation, by a company located here and which he represented in Philadelphia, the sum of $400,000. We doubt not but our readers will remember the mining enterprise which is probably alluded to, and created such a furor in that city a few months ago, and which the San Francisco papers pronounced an unmitigated swindle. We deeply sympathise with our Philadelphia purchasers, knowing from all accounts that they must have been most beautifully duped. If our eastern friends would rely upon California papers or correspondents of known standing, they would avoid such swindles.

Cost of Working a Mine—The Gould & Curry Mining Company have taken out of their mine, during the past month over half a million of dollars, and the dividend declared was only $125 per share, and as there are 1,200 shares in the mine it will show that the entire amount which the stockholders received was $150,000, the balance apparently going for working the mine, thus illustrating what it costs to work some mines before the stockholders receive their dividends. We do not mean to say that the expenses of the mine are always as great as they have been the past month.

State Treasury.—The money contained in the State Treasury, on the 30th of April, amounted to $388,229.87.

Summary of Mining News.

Washoe.

The Virginia City *Union* says that work is being vigorously prosecuted on all the big claims in Virginia which have erected hoisting works, as the Best & Belcher, Dick Sides, White & Murphy, Central No. 2, California, and other claims on the Comstock lead, which are excellently located, but as yet are undeveloped. Big strikes are bound to be made in some or all of these before the summer passes. Most of them have their shafts down to a proper depth, and have commenced drifting.

Belvidere.—The old Belvidere Gold and Silver Mining Company are going to turn over a new leaf and put their work through with a rush. A new set of trustees has been elected, and Mr. Charles Harvy —one of the newly elected trustees—has been authorized to proceed to this city and procure suitable machinery for steam hoisting works. The new trustees are in for immediate development.

The Buckeye Mill.—This quartz mill, which is situated near the mouth of the Santa Fe tunnel, is at present engaged in crushing Gould & Curry rock. It contains two batteries of four stamps each, with corresponding amalgamating pans, and the reduction of ore is carried on after the most improved plan.

The Moray.—The Moray shaft is 320 feet in depth, with a drift to the west 125 feet in length. They have passed through a large ledge, which was barren at the point cut by their tunnel, and are now running for a lead further west, and which they suppose they will strike in going 25 or 30 feet further. Their hoisting is done by means of a whim.

The Eddy & Co. Claim—This mine, which is situated on the hill immediately north of Crown Point Ravine, in Gold Hill district, was located in December, 1862, and contains eight hundred feet. It has been worked almost constantly since, and an incline two hundred feet has been sunk on the west wall of the ledge. The workmen are about to drift across the ledge in an easterly direction, and ascertain its width and the character of the rock it contains.

Sam Patch Gold and Silver Mining Co. is situated in the hill near the Gilmore, and about three hundred yards south of the Napoleon Company's claim. The company are running a tunnel for the ledge, which will tap it at a depth of over four hundred feet. The tunnel, which is well timbered, has now reached a length of 195 feet from its mouth, and it is estimated by the Directors, that one hundred feet more will strike the ledge, which is to be seen in an old shaft sunk upon the croppings, but on which work was stopped by a large stream of water. The rock taken from this shaft assayed $136.58 to the ton.

The Gentry is a Gold Hill claim, located last January, just in front of the Union, Yellow Jacket and that range of mines. The company claim 800 feet upon a ledge running northwest and south, crossing the Yellow Jacket. A shaft was commenced in February last, and has since been sunk to the depth of 66 feet through solid quartz. Sixty feet down, a well defined and apparently rich ledge was struck. A drift has been started from the bottom of the shaft for this, and rich rock is now being taken out. Good judges have confessed their inability to distinguish between the Gentry specimens and the better class ores. The work is now prosecuted with three shifts. The Yellow Jacket having run a drift under the Gentry works and broken through into them, the two companies have been engaged for several days in attempts to smoke each other out, which is rather an amusing episode in mining affairs.

The Lundin Co. is located in the upper part of Silver City. The Company hold 1,400 feet on each of nine parallel veins. The Company's tunnel is now in 415 feet. They have passed through two veins, and at last accounts were just coming upon the third. The main ledge has not yet been reached. The first ledge struck shows some gold; the second, mostly silver, with a little gold.

Cook & Gray Co.—This Company holds 600 feet, about one quarter of a mile north of Silver City; the stock is principally held by Messrs. Cook & Gray. The mine has been worked since '60; the Company are running a mill on Carson river. The bullion thus far taken out has amounted to fully $50,000.

The Mary Ann Co. has commenced work again, after a cessation of a few weeks in consequence of the litigation with the Uncle Sam. A late order of the Court allows the Mary Ann to commence work again. The Company are putting down a main working shaft, with a whim. Steam will soon be employed.

The Schuylkill Co. is an old location, but the work has not heretofore been prosecuted with much energy. They are now sinking a new shaft, and will put on a strong force of drifters as soon as the ground is properly opened.

The Keystone and Arrington Co. is a consolidation of the Keystone No. 2 and the Arrington. The Company's claim is located on the west side of Gold Canon. They are sinking a double shaft. The claim is thought to be located on a good mineral range.

The Belcher has been very much inconvenienced of late by water, and what is quite singular is that the flow of water is intermittent—sometimes gaining several feet on the pump in a few hours, and at another not affording full employment for it at even decreased speed.

The Midas Company is still sinking. They are now down 240 feet, with wet ground, which renders the work slow and disagreeable.

The Crown Point Co. started their pump on the 27th ult., and in a couple of hours had lowered the water in the shaft considerably. The water has been standing in the shaft about two weeks, and has become stagnant, so that when it is pumped out it emits an odor much less fragrant than the breath of roses. The water is probably out ere this and work re-commenced.

The Colorado, on Cedar Hill, was located in March, 1863, as the first south extension of the Utah, and contains 1,400 feet. The cutting of their ledge by the Morning Star Company in their tunnel a few days ago, has given an impetus to this Company's operations. They are now enlarging their shaft. When they have enlarged it to the depth of 75 feet, the depth of the original shaft, they propose to commence running night and day till they are down 200 feet, and then drift to the west for the ledge.

The New Oregon have commenced a new shaft a short distance to the west of their dump, upon the American Flat road, and directly over the shaft sunk at the end of their tunnel. Previous to being driven from the latter by water, they took out a quantity of ore of such a quality that they intend to order an engine and pump, so as to have them in readiness by the time their new shaft is down to their tunnel. Their energy and perseverance are certainly deserving of success.

Humboldt.

Moonlight.—Work on this mine has been suspended for the present. A cave in the drift rendered necessary a considerable amount of timbering, in order to work with safety and advantageously. The vein, where work left off, is very rich; a ton tried at the mill this week yielded 21lbs. bullion, worth $252.

"Gideon Band."—These two Companies have made an arrangement to work jointly for the purpose of running a tunnel to prospect their series of ledges. It is estimated that six assessments, of fifty cents per share each, will prospect all the ledges at a good depth. The prospects in croppings are fine, and the location favorable for working.

Cedar Hill.—This claim holds its good reputation. The shaft is something over 100 feet down, all the distance in the ledge. Ledge averaging about three feet width. Well cased, quite hard, and scarcely a piece to be picked up in which silver stain is not perceptible, or which will not yield gold. Work going on finely.

The Anderson has done about twice the amount of work of any other in Buena Vista District, and is driving work vigorously forward, intending to have the claim thoroughly prospected this season. The boys are now putting the incline down into the heart of the mountain, taking out the ledge as they go. The ledge is about thirty inches at eighty feet down, and widening. It is well cased in slate.

"Union Band."—This is one of the early locations for the Sheba series. All companies located for this series have been greatly encouraged by the recent strikes in the Sheba and De Soto tunnels, and are getting to work. The articles of incorporation of this company, provide, as a protection to poor owners, that assessments shall not exceed one dollar per share monthly. A good idea.

Tallulah.—A lot of 3,700 lbs. ore, from the Tallulah, yielded a bar of 282 ounces.

Gem of the Sierras.—A recent crushing of eight tons of rock from this mine, located in Sierra District, yielded $1,823 29 in fine silver bars. The crushing was done at Price & Fall's mill, Unionville, Humboldt, and the rock obtained from a shaft sunk thirty-five feet on the ledge.

A rich vein of copper, prospecting over fifty per cent. has been discovered at Sawyer's Bar, on Salmon river, in Siskiyou county.

[Written for the Mining and Scientific Press.]

The Whitman Mine.

Messrs. Editors:—Considerable has been said concerning the Whitman mine in our sister district, and, to all appearances, it is a failure; but I assure you that the Whitman is only passing through the same *refining* process that every mine of value has been subjected to in the Territory. I do not hold a foot of stock in the company, nor have I a friend that does, to my knowledge. But let me advise all concerned to hold on to their stock. I can have no object in this other than to advise those concerned for the best. I am living here, and understand the whole arrangement, and I know the mine to be rich. There is a large amount of the ore at the mine, at this time, that will work $1,000 per ton. The mill, it is said, will start again in a few days. It may make another failure; but if it does I assure those interested that it will not be on account of the inferior quality of the rock, but for some other purpose. Why is it that somebody, who had considerable to do with the mine, is buying all the stock he can get his hands on, at this time?

This is doubtless a rich district, and only wants to be developed. Many companies have gone to work in good earnest. The following are the names of a few who are doing good work: Altamonte, Independence, Amazon Tunnel—three shifts, Rappahannock, Union, Prairie State, Buckeye, Montezuma and the Yuha. There are hundreds of incorporated companies that have done more to hurt the district, by scattering their worthless stock through the country, than the failure of two Whitman mines could do.

Como, N. T., April 28, 1864. Como.

[The above correspondent is well known to us, and his word may be relied upon.—Eds. Press.]

Oriental Copper Mine, Amador Co.—A Strike of Silver.—Work upon the Oriental mine is still continued. Two shafts have been sunk to the respective depths of 90 and 100 feet—both terminating upon the same level; and a gallery is being run to connect them. When this is accomplished the mine will be in a condition for thorough and effectual ventilation (one shaft having its opening at an elevation of 60 feet above the other—a condition precedent to natural ventilation). As soon as the connecting gallery has been completed, stoping will be commenced. Mr. Fish, one of the proprietors, a few days since, showed us a specimen of ore taken from near the bottom of the deepest shaft, which contained a large quantity of black sulphurets of silver. These sulphurets contain, by assay, $1,756.83 of silver, and $240.80 of gold. We are not advised with regard to the extent of this deposit; but it is a very rare occurrence to find even a small deposit of that nature in immediate contact with sulphurets of copper. The discovery is certainly a most flattering indication of the value of the mine, and we shall be pleased to learn more particulars with regard to its extent and position in the mine.

Carson Hill.—The late developments in the Melones Ledge, Carson Hill, appear to have given a renewed impetus to the progress of other mines in that vicinity. Carson Hill, in the early history of quartz mining in California, occupied a most important position, and attracted a larger share of attention than the quartz mines of any other portion of the State. In 1851, over a million of dollars in gold was taken out of the Morgan claim on this celebrated hill, in the vicinity of the Melones, the Main Stanislaus and the Melones Sink. The latter has not a historic name, certainly; nevertheless it conveys a good idea of the locality immediately adjoining and underneath the depression of the Carson Hill, partly forming a basin or sink for a deposit of the precious metals and their matrixes, in their prolonged passage under Carson creek, where they are easily traced, until their bold croppings again appear on the opposite hill. The similarity of the rock to the Morgan and Melones, and the quality of the rock being the same, renders it quite certain that the Melones Sink and Main Stanislaus are on the rich gold-bearing belt of that locality.

Business Cards.

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Particular attention paid to Washoe, Esmeralda, and all other classes of Mining Stocks. Collections promptly attended to. Money to Loan on Stocks.
Office, Lyceum Building, Room No. 102, Entrance on Washington Street, above Montgomery, San Francisco. 9v8-q

T. C. SANBORN & CO.
Stock Brokers,
No. 630, Montgomery Street,.....San Francisco.
OPHIR SILVER MINING STOCK,
GOULD & CURRY MINING STOCK,
CHOLLAR MINING STOCK,
CALIFORNIA STEAM NAVIGATION COMPANY'S STOCK,
☞ **BOUGHT AND SOLD.** ☜
jltf.

KENNIE & MORRISON,
STOCK BROKERS,
N. E. Cor. of Montgomery and Washington Sts., San Francisco.
Legal Tenders Bought and Sold. 7v8-mtf

WM. S. LYON & CO.,
Stock and Exchange Brokers,
308 Montgomery Street, corner of Pine,
SAN FRANCISCO.
QUARTERMASTER'S WARRANTS BOUGHT. THE HIGHEST Price paid for Legal Tender Notes. Open till 9 P. M. 1-3m

REMOVAL.
J. R. BEARD, STOCK BROKER,
MEMBER SAN FRANCISCO STOCK AND EXCHANGE BOARD,
HAS REMOVED HIS OFFICE TO
5v8-tf No. 707 Montgomery street, Brokers Block.

Geo. F. M. Glover,
PREMIUM ORNAMENTAL AND FANCY PAPER CUTTER AND DECORATOR.
HALLS, DINING ROOMS, SALOONS, PRIVATE PARLORS, Steamboats, &c., Decorated in the latest and neatest style, Mirrors, Picture Frames, Chandeliers, &c., decorated with Tarlton or Paper. Particular attention paid to the decoration of Private Parlors. Address Box, 1,770, San Francisco Post Office. Can be found at W. S. Lyons & Co.'s, 304 Montgomery St., cor. of Pine. 15

W. P. BENCKLA. A. L. CHAMBERLIN.
BENCKLA & CHAMBERLIN,
Stock and Exchange Brokers,
S. W. corner of Clay and Montgomery streets,
SAN FRANCISCO.
☞ Deeds, etc., for record in Humboldt County, Nevada Territory, received and forwarded. 1-tf

MUTUAL
Life Insurance Company,
—OF NEW YORK—
Capital, : : : : : : : : : $9,750,000.
H. S. HOMANS, Agent for California.

H. S. HOMANS,
NOTARY PUBLIC,
And Commissioner of Deeds for Nevada Territory,
MINING SECRETARY, CONVEYANCER, ETC.,
Northeast corner of Montgomery and Merchant Streets.

THOS. DAVENPORT. W. B. SMITH
DAVENPORT & SMITH,
Mining and General Accountants,
SCRIVENERS, CONVEYANCERS, ETC.
Office, No. 14 Government Block, N. W. corner of Sansome and Washington streets, San Francisco.
REFER BY PERMISSION TO
Donohoe, Ralston & Co, Bankers. | J. C. Sanborn & Co., Brokers.
Sather & Co., Bankers. | Ross, Dempster & Co., Merchants.
John Parrott, Esq., Banker. | Dibblee, Hyde & Co., Merchants.
James J. Robbins, Esq., Brokcr. | Dickson, DeWolf & Co., Merchts

H. S. Sanders & Co.,
Stock Brokers,
Members of the Stock & Exchange (1st) Board and of the Pacific Board of Brokers.
Stock Exchange Room, No. 546 Washington street,
12v8-m SAN FRANCISCO.

W. R. MAURICE,
Stock Broker, Real Estate Agent
And Mining Secretary.
Office, No. 708 Montgomery Street, San Francisco. Reference—Messrs. Parrott & Co., Bankers. 8v8.tf

THOMAS HILL,
Member of the S. F. Stock and Exchange (1st) Board.
A. H. MURDOCK,
Member of Stock Exchange,
No. 623 Montgomery Street. Opposite Montgomery Block.
SAN FRANCISCO.

Palmer's Patent
ARTIFICIAL LEG,
Manufactured in Philadelphia, Pa.
JARVIS JEWETT, AGENT.
629 Washington Street, San Francisco, Cal. 10v8-1m

A. C. MORSE,
Mining and Real Estate Agent,
Office, S. W. corner Pine and Silver Sts., Aurora.
HAVING MADE ARRANGEMENTS WITH MINER S. MARTIN, Esq., one of the principal Stock Brokers of San Francisco, I am prepared to BUY and SELL every description of Mining Stocks in Esmeralda District. tf

ARMES & DALLAM,
IMPORTERS AND JOBBERS OF
WOOD AND WILLOW WARE,
Brushes, Twine, Cordage, Etc.,
And Manufacturers of California Pails, Tubs, Brooms, Etc.,
217 and 219 Sacramento St., between Front and Davis,
2-tf SAN FRANCISCO.

NATHANIEL GRAY,
General Furnishing Undertaker,
641 Sacramento St., corner of Webb, San Francisco. 1

PHILLIPS & CO.,
(Successors to W. H. Baxter & Co.,)
—MANUFACTURERS AND IMPORTERS OF—
HARNESS AND SADDLES,
BRIDLES, WHIPS, COLLARS, SADDLERY WARE, Etc.,
407 Battery St., between Clay and Merchant, San Francisco.
N. B.—All kinds of Work made to order and Warranted. Jobbing done with neatness and dispatch, and on the most reasonable terms. 2-tf

EDWARD BOSQUI & CO.,
517 Clay Street, San Francisco,
Book-Binders, Paper-Rulers,
And Blank Book Manufacturers.
Blanks of all kinds printed and ruled to any desired pattern. [2-tf

GEO. B. HITCHCOCK & CO.,
Counting-House Stationers,
HAVE ALWAYS IN STORE A WELL-SELECTED STOCK OF
American and Foreign Stationery.
Blank Books of all kinds, manufactured to any desired pattern, and at the shortest notice. Mining Companies supplied in the best manner, and at reasonable rates.
GEO. B. HITCHCOCK & CO.,
2-1m 413 and 415 Sansome St., cor. Commercial, S. F.

C. BEACH,
—IMPORTER AND DEALER IN—
Juvenile and School Books, Stationery,
Kustel's California Gold and Silver Processes of Extraction, Etc., Etc.
No. 34 Montgomery street (opposite the Lick House),
4v8-3m SAN FRANCISCO.

BUSWELL & CO.,
Book-Binders, Paper-Rulers,
And Blank-Book Manufacturers.
No. 509 Clay street and 508 Commercial street, between Montgomery
4v8-tf and Sansome, San Francisco.

WM. P. TAAFFEE,
IMPORTER AND JOBBER OF
Staple and Fancy Dry Goods, Carpets, Duck, etc.,
-tf Corner of Front and Sacramento Streets, San Francisco.

D. NORCROSS,
MILITARY GOODS OF ALL DESCRIPTIONS. NAVY TRIMMINGS AND EMBROIDERIES. REGALIA FOR ALL ORDERS.
angl7-tf Masonic Temple, No. 6, Post Street.

Owen's River Canal Company.
FOR SALE, FOR ACCOUNT OF THE COMPANY, 7,000 SHARES of the above stock, at $1 per share. It is confidently presented to the public as the best investment, for the price, now offered this market.
Office of the Company No. 328 Montgomery street. tf

REMOVAL.
THE OFFICE OF DEETKEN & CO'S METALLURGICAL WORKS HAVE BEEN REMOVED FROM 605 to 315 MONTGOMERY ST., SAN FRANCISCO.
16 A. MARCUS, Secretary.

RICHARD WEGENER,
Accountant, Mining Secretary,
AND GENERAL AGENT.
No. 204 Montgomery St., Southeast cor. Montgomery & Pine Sts.,
11-m SAN FRANCISCO.

E. C. DAKE,
Dealer in Clothing and Gent's Furnishing Goods,
541 and 543 Washington Street, Montgomery Block,
j2.tf San Francisco.

Agency for the Purchase and Sale
—OF—
MEXICAN MINING STOCKS,
At No. 411 Clay Street, San Francisco.
OFFICE OF THE PENA AND LA MARRONENA SILVER MINing Companies, San Antonio District, Lower California.
All persons are invited to call and examine Ores from the above mines.
j1t WM. FAULKNER.

GEORGE H. BAKER,
Lithographer & Engraver,
No. 522 Montgomery Street, San Francisco.
MINING STOCK CERTIFICATES LITHOGRAPHED IN THE MOST ARTISTIC STYLE. CALL AND EXAMINE SPECIMENS.
10v8-tf

FREDERICK MANSELL.
Mechanical & Architectural Draughtsman,
No. 422 California street, corner of Leidsdorff.
Drawings of Models made for parties applying for patents at Washington or London. mar23-tf.

JOHN DANIEL,
(SUCCESSOR TO O. GORI)
MARBLE WORKS,
No. 408 Pine street, bet. Montgomery and Kearny, San Francisco.
Mantels, Monuments, Tombs, Plumbers' Slabs, Etc.,
On hand and Manufactured to order.
☞ Goods shipped to all parts of the State. Orders respectfully solicited. 5v8-3m

Removal.
OFFICE OF THE PACIFIC METALLURGICAL OFFICE IS REmoved to 509 Sacramento street. Having enlarged our works at North Beach, we are now enabled to reduce from 10 to 15 tons of Silver or Gold rock per day.
Gold and Silver ore, and Sulphuret Assayers', or Silversmiths' sweepings reduced or purchased.
COPPER ORES—Highest market rates advanced in cash, for Shipments. S. C. BRADSHAW, Agent,
509 Sacramento street, near Sansome.

Farrand's New
AMALGAMATOR & SEPARATOR!
THIS UNRIVALLED MACHINE IS NOW IN OPERATION AT THE
Eureka Metallurgical Works,
Commercial Street, between Front and Davis,
WHERE ALL KINDS OF ORES ARE REDUCED AND SAMPLED.
Particular attention given to Sampling Copper Ores.
This Amalgamator is capable of doing double the amount of work of the ordinary pans, at a saving of one half of the power, and at a much less cost in the original purchase.
Another very important advantage connected with this machine is the fact that it may be cleaned in fifteen minutes, without removing the plates or any other portion of the machine.
Manufactured at the Miners' Foundry, San Francisco. All communications should be addressed to R. L. OGDEN, Agent.
Cor. Montgomery and California streets, San Francisco.

Advantages of Farrand's Amalgamator.
In offering this Amalgamator to the public, the inventor does not claim any new or scientific method of extracting the precious metals from the ores; he merely claims a new and simple combination of mechanical principles, whereby a great saving of power (full one-half in amount) is effected. The capacity of the machine varies with its size, the smallest, or prospecting size, will reduce 300lbs. in three hours, and can be easily worked by the power of one man. The largest size will work 1,800lbs. every three hours, or six tons in 24 hours, with an application of a trifle more than one-horse power. This saving of power, as all mill-men are aware, is a very important consideration, particularly in localities where fuel is scarce. The power so saved in running the Amalgamators may be advantageously employed to an increase of stamps, and thus proportionally increasing the work of the mill. This machine consists of a semi-cylindrical, trough-shaped vessel, the interior of which is furnished with moveable concave dies, to be replaced when worn out, as in ordinary pans. The mullers are convex, and attached to a substantial rock shaft, by which they are moved back and forward by crank or eccentric motion. The mullers are held to their places by springs of moderate strength, the pressure of which may be easily regulated. The oscillating motion of the mullers serves to keep the pulp in a constant state of agitation, thoroughly mixing it and passing it under the mullers without resort to any of the various expedients employed in Pans where a circular motion is maintained. In working this Amalgamator no quicksilver is placed in the pulp until the trituration is completed. That done, the mullers are raised, so as to completely break contact with the dies, the quicksilver sprinkled into the mass and the machine set in motion again, the mullers simply acting as stirrers, which they do most effectual. The peculiar construction of this machine admits of its being worked with a much smaller charge of quicksilver, to any given amount of pulp than Pans. The spiral springs greatly assist in the work of reduction, by allowing the free admission of the pulp between the mullers and dies, so that the pulp is made to actually work upon itself—as the dust of the diamond is made to reduce the gem itself. The advantage derived of thus avoiding all trituration in the presence of quicksilver, must be apparent to every one at all acquainted with gold or silver amalgamating. Trials made with this machine in the presence of experts, during the last four months, have been pronounced highly satisfactory. It is peculiarly well adapted to employment by small mining operators in distant localities, as it can readily be taken to pieces and packed upon mules. It is intended to construct a large size machine, without dies or mullers, but simply with arms, to act as stirrers; said machine to be used in connection with several of the Amalgamators as a "Separator," as it is found that the peculiar motion given to these arms, in connection with the concave shape of the body of the machine, renders it most effectual for such a purpose. WM. D. FARRAND.
17-1m San Francisco, March 28th, 1864.

Miscellaneous Advertisements.

D. B. HINCKLEY, WM. E. WORTH. WM. A. FIELD

Fulton Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First Street, between Market and Mission stree

3-qy SAN FRANCISCO.

J. B. GAUSH, J. A. PEER, W. BUSHMAN

GRUSH & CO.,

Pattern and Model Makers.

Drawings Made for Engines, Mills, Water Wheels, Mining Machinery, Etc.

—ALSO—

WOOD WORK FOR ALL KINDS OF MACHINERY.

☞ SCROLL SAWING DONE TO ORDER.

Fremont St., between Market and Mission, San Francisco. 3-3m

GEORGE T. PRACY,

MACHINIST AND BLACKSMITH.

Steam Engine, Flour and Saw Mill, And Quartz Machinery, Printing Presses,

—AND—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED

Nos. 109 and 111 Fremont street, near corner of Mission,

OPPOSITE MECHANICS' MILL,

3-qy SAN FRANCISCO.

JOAN P. GALLAGHER.....JOSEPH H. WEED.

GALLAGHER & WEED,

BRASS AND BELL FOUNDRY And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING, DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, MADE to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks, also brass Padlocks and Shop Locks of various patterns, on hand and made to order.

☞ Particular attention given to casting Rudder Braces and Ship Work in general.

☞ All Jobs promptly attended to.—Prices moderate. ☜

No. 125 First Street, opposite Minna, next door to Pacific Foundry.

[Removed from Oregon street, between Front and Davis.]

j2tf

LEWIS COFFEY. J. S. RISDON.

LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

THE ONLY EXCLUSIVELY BOILER MAKING ESTABLISHment on the Pacific Coast, owned and conducted by Practical Boiler Makers. All orders for New Work, the repairing of Old Work, executed as ordered, and warranted as to quality.

Old Stand, corner Bush and Market Streets. Opposite Oriental Hotel, San Francisco, Cal.

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,

BOILER MAKERS AND SHEET IRON WORKERS,

N. B. All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission, between Beal and Fremont Sts., San Francisco.

oct29-tf

PHŒNIX WORKS.

Nos. 6 & 8 Battery street, near Bush, San Francisco.

JOHNATHAN KITTREDGE, MANUFACTURER

—OF—

FIRE-PROOF DOORS, SHUTTERS, GRATINGS AND BANK VAULTS.—ALSO, BLACKSMITH'S WORK. 14-m

LEANDER RANSOM,

Civil Engineer and Surveyor,

HAVING BEEN CONNECTED WITH THE PUBLIC WORKS OF the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. Also

State Locating Agent,

AND AS SUCH HAVING THE SALE OF

600,000 Acres of State School Lands.

At the low price of $1,25 per Acre.

TERMS—Twenty per cent in cash and the balance on a credit of several years.

oc7-tf Office, 323 Montgomery streets.

W. W. HANSCOM,

Steam and Mechanical Engineer. Designs furnished, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc., etc. Agent for McKenzie's Patent Cupola and Blower.

At the Golden State Iron Works,

First Street, San Francisco.

tf.

Boston Mastic Roofing.

WE ARE PREPARED TO FILL ALL ORDERS FOR ROOFING throughout the State, Mexico or Nevada Territory. The attention of miners and mill owners are especially called to this notice, it being the cheapest and most economical roofing in use.

Office 135 Montgomery Street, near Bush, San Francisco.

10v8-2m N. P. PERIN & CO.

WANTED,

Gold Quartz suitable for Cutting Jewelry.

By **FRONTIER & DEVIERCY.**

437 Pine Street, San Francisco.

au31tf.

PIONEER FOUNDRY and MACHINE SHOP,

Lower Gold Hill,

Have Superior Facilities for Making

MINING & MILLING MACHINERY,

A COMPLETE SET OF MACHINE TOOLS WITH

PLANER,

ENABLES ME TO DO ALL KINDS OF

MACHINE WORK AT SHORT NOTICE.

RETORTS AND INGOT MOULDS,

STAMP SHOES AND DIES,

WHEELER, VARNEY AND HEPBURN

PAN SHOES CONSTANTLY ON HAND.

Plans, Specifications, and Drawings of all kinds of Mill and Mining Machinery made at short notice, by

13 OLIVER HYDE, JR.

E. D. Farrington,

ASSAYER.

No. 430 Montgomery street, San Francisco. N. B. Assays guarranteed. 8v8-1m

Richn, Hemme & Co.,

ASSAYERS.

☞ Assays made of Ores, Minerals and Metals. ☜

CHAS. F. RIEHN, late U. S. Branch Mint, gives lessons in Assaying, also in Mineralogy and Chemistry, as far as required to become a practical Assayer.

REFERRED with permission to Messrs. F. Parrot & Co., R. B. Swain, Esq., Messrs. Alsop & Co., Messrs. Donohoe, Ralston & Co. 1

G. E. MOORE,

Assayer and Analytical Chemist,

Having established a Chemical Laboratory, furnished with every requisite for delicate Analytical work, is prepared to execute the Assay and Analysis of Ores, Mineral Waters, Guanos, etc., with accuracy and dispatch. No. 334 Montgomery Street.

REFERENCES:—Prof. J. D. Whitney, State Geologist, San Francisco; Alsop & Co., San Francisco; Sather & Church, San Francisco; John Parrott, San Francisco; D. O. Mills, Sacramento. 1tf

Assays & Metallurgy!

Promptness and Accuracy Secured

BY THE USE OF THE MOST IMPROVED METHODS OF ANALYSIS!

Advantageous Terms for Prospector's Clubs and Mining Companies.

J. H. CHURCHILL, M. A.,

[FROM EUROPE.]

24 Government Block, corner of Sansome and Washington Streets, San Francisco.

☞ "HINTS FOR PROSPECTORS" free by post. 1tf

NORTH BEACH

Quartz Mill and Reduction Works

ARE PREPARED TO WORK GOLD AND SILVER ORES, IN large or small quantities.

Working assays made of small lots, and all kinds of ores crushed at short notice.

Our new and complete Machinery, will enable us to give results fully up to the merits of rock.

WHEELER & THAYER, Proprietors.

C. C. JONES, Amalgamator.

San Francisco, Oct. 13, 1863. j2tf

HOWLAND, WOODARD & WILSON,

Copper Crushing and Grinding.

Attend to all kinds of Grinding & Crushing,

—SUCH AS—

COPPER ORES, MARBLE DUST, FIRE-BRICK DUST, DRUGS,

And Feed of all Kinds,

All of which will be Ground at the Shortest Notice.

—ALSO—

California Mineral Paint and Mineral Polishing Powder.

Works—No. 537 Market Street.

San Francisco, January 1st, 1864. 1-tf

JOHN TAYLOR,

—IMPORTER AND DEALER IN—

Druggists' and Chemists' Glassware,

And a Full Assortment of Assayers' Articles.

—INCLUDING—

Bullion and Assay Ballances, Furnaces, Muffles, Crucibles, Cupels, Acids, Etc., Etc.

Also—A Full Assortment of Reagents.

JOHN TAYLOR,

2-tf 514 Washington St., Up Stairs, San Francisco

DEETKEN & CO'S.,

METALLURGICAL WORKS,

FOR THE REDUCTION OF

SILVER AND GOLD ORES, TAILINGS, SULPHURETS, ARENIURETS, ETC., ETC. CUPELLATIONS AND REFINING OF SILVER AND GOLD,

Practical Assays for Silver and Gold, in small and large quantities, by Smelting, Chlorination and Pan Manipulation.

WORKS—On the San Bruna Road.

OFFICE—No. 315 Montgomery St., San Francisco. 16v8-tf

Pacific METALLURGICAL WORKS.

North Beach, San Francisco.

THE COMPANY HAVING BEEN TO A LARGE EXPENSE IN enlarging their Works, are now prepared to contract to work any quantity of Gold and Silver Rock, nearer the true assay than any other Company in this Country, or Europe.

G. T. FOUQUE, Superintendent.

S. C. BRADSHAW, JR., Secretary.

Office, 511 Sacramento street, San Francisco. 3-tf

REYNOLD'S

Patent Cut-Off and Governor,

For Steam Engines.

127 of these Invaluable Machines

ARE NOW IN USE

In California and Nevada Territory, giving a perfectly regular motion and

Saving 20 to 75 per cent of the Fuel.

Steen's Improved Governor

IS THE CHEAPEST, SIMPLEST AND QUICKEST TO ACT AND least liable to get out of order of any Governor in use. It can be seen in operation at the Golden State Iron Works, at the Stone Breaker, foot of Montgomery Street and at the Sugar Refinery, 8th Street, San Francisco.

Steam Engines, Boilers, Pipes,

Hydraulic Presses, Shafting, Pulleys, Etc., Etc., bought and sold the best market rates.

Anti-Incrustation Powder,

A sure remedy for Scale in Steam Boilers, without injury to the Iron. In use for the past EIGHT years.

☞ MACHINERY MADE AND REPAIRED. ☜

—REFER TO—

Sugar Refinery, San Francisco,

Cottell & Co., San Jose,

L. A. Booth, Esq., Virginia City,

And 2,000 others in the United States.

E. T. STEEN.

1-tf Nos. 37 & 39 Fremont Street and 42 & 44 Beal Street.

SQUARZA'S PUNCH.

FIRST PREMIUM

AT THE SACRAMENTO AGRICULTURAL STATE FAIR FOR THE YEAR 1862.

ALSO; FIRST PREMIUM

At the San Francisco Bay District Agricultural Fair, 1862.

MANUFACTORY, WHOLESALE AND RETAIL,

No. 44 Leidsdorff street, opposite the What Cheer House,

j2-tf San Francisco.

THEODORE KALLENBERG,

Maker of Models for Inventors.

MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.

No. 418 Market street, San Francisco. n7-tf

Ore Bags.

10 000 HAND SEWED GOLD AND SILVER ORE BAGS, 100 lbs each. 15,000 Chicken Gunny Pocket Bags, suitable for Copper Ore, 125 lbs each. For sale in lots, by

REYNOLDS, HOWARD & FORD,

11v8-m 313 and 315 Davis Street, San Francisco.

Owen's River Canal Company.

CAPITAL STOCK.....$1,000,000

10,000 Shares.....$100 per Share.

A PORTION OF THIS STOCK IS NOW OFFERED TO THE PUBlic, and recommended as an investment.

Full Paid and Unassessable Stock,

Also Assessable Stock, can be obtained of A. J. DOWNER & CO., the authorized Agents of the Company,

406 Montgomery Street.

President.....R. S. WHIGHAM.
Secretary.....W. FISK HITCHCOCK.
Treasurer.....MONTGOMERY GODLEY.
Superintendent.....WILLIAM FLEMING.
Engineer.....J. E. CLAYTON.

TRUSTEES:

R. S. WHIGHAM, formerly of Whigham's Mill,.....Nevada City.
WILLIAM FLEMING.....of San Francisco.
SPIER RIDDEL.....Paying Teller of Parrott & Co's.
ISAAC SWAIN.....of A. J. Downer & Co.
WILLIAM P. PRATT.....of Nash & Fogg.

Office of the Company 328 Montgomery Street. j1tf

JOHN SCOTT,

METALLURGIC CHEMIST,

—AND—

ASSAYER OF ORES, MINERALS AND METALS,

No. 507 Jackson Street, above Montgomery, San Francisco.

WORKING ASSAYS MADE ON LARGE OR SMALL QUANTities of Ore by the most approved methods, and instructions regarding the reduction of them, in general, given. Assaying of Ores, etc., taught, either by the wet or dry method. Silver Ores reduced by means of Electricity.

☞ Terms moderate, and all results guaranteed. 11v8-m

GEO. A. METCALF. D. S. HUTCHINSON

METCALF & HUTCHINSON'S

PHOTOGRAPHIC GALLERY,

650 Washington St. Three doors below Kearney, San Francisco.

HAVING REFITTED THE ABOVE ROOMS THE FIRM ARE now prepared to furnish the public with a superior style of Picture, at a lower price than ever before offered in the city.

CARD PICTURES.

As we have every facility for producing these beautiful picture in all their different varieties, we have reduced the price to

THREE DOLLARS PER DOZEN!

Large sized Photographs $3—Extra copies $1 each.

AMBROTYPES in all Styles and Prices.

OLD PICTURES copied with care and accuracy, in any style desired. Particular attention paid to pictures of children.

Pictures painted in Oil or Water Colors, and retouched in Ink by a competent artist. aug

DESKS AND OFFICE FURNITURE OF ALL KINDS, FOR SALE BY

JOHN WIGMORE,

No. 423 California St., San Francisco

OFFICE JOBBING, of all kinds, promptly attended to.

j2-tf

Patronize Home Manufacturers!!!

JAMES LONGSHORE,

TRUNK AND VALISE MANUFACTURER, 397 SANSOME ST., under Tehama House. Trunks and Valises, Wholesale and Retail, Fine Solo Leather Trunks, Valises, and a fine assortment of LADIES' TRUNKS constantly on hand. Trunks covered and repaired.

au10

New this Week.

Wall Street Gold and Silver Mining Company, Reese River District, Lander County, N. T.

Notice is hereby given that at a meeting of the Board of Trustees of said company, held on the 31 day of May, 1864, an assessment of fifty cents per share was levied upon the capital stock of said company, payable immediately, to the Secretary of the company, in U. S. Gold Coin.

Any stock upon which said assessment shall remain unpaid on Saturday the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday the 18th day of June, 1864, to pay the delinquent assessment, together with costs of advertising, and expenses of the sale. By order of the Board of Trustees.

W. H. DUDLEY, Sec'y.

19-4t Office, No. 528 Montgomery Street, San Francisco.

Peacock Gold, and Silver Mining Company, Reese River District, Lander county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of April, 1864, an assessment of 25 cents per share was levied upon the capital stock of said company, payable immediately, in U. S. Gold Coin, to the Secretary, or to CHARLES H. FISKE, Austin, N. T.

Any stock upon which said assessment shall remain unpaid on the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 22d day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. C. W. M. SMITH, Sec'y.

19-4t Office, 29 Gov't House, San Francisco.

Exchange Gold and Silver Mining Company, Reese River District, Lander county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 30th day of April, 1864, an assessment of 25 cents per share was levied upon the Capital Stock of said company, payable immediately, in U. S. Gold Coin, to the Secretary, or to CHARLES H. FISKE, Austin, N. T.

Any stock upon which said assessment shall remain unpaid on the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 22d day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the board of Trustees. C. W. M. SMITH, Secretary.

19-4t Office, No. 29 Gov't House, San Francisco.

Notice to James M Ross, or his Heirs:—You are requested to call at this Office, where information of importance awaits you. Said Ross left San Francisco, in June last, for Noyo Mills.

Information Wanted.

Information is desired at this office of the location of the place of business of the following Company:

Pacific Smelting Works, Chas. P. Secor, President; Edwin Harris, Secretary.

Lost.

Certificates Nos. 433 & 49 of the Great Consolidated Boise River O. & S. M. Co., of five shares each, standing in the name of J. W Reed. All persons are hereby cautioned against purchasing the same as their transfer has been stopped on the books of the company. J. W. REED.

San Francisco, May 4th, 1864. 19-4t

Coal Creek Coal Mining Company.

Located near Geyserville, Sonoma County, California, containing 320 acres.

CAPITAL STOCK,.....$120,000
600 Shares.....$200 Per Share.

Office of the Company, Room, 18 Phœnix Building, corner of Sansome and Jackson streets, San Francisco.

A. P. McCARTY.....President.
D. S. CUTTER,.....Secretary & Treasurer.

TRUSTEES:

JOHN J. HUCKS,.....San Francisco.
GEO. H. BAKER,.....San Francisco.
P. T. ARGUAMBON,.....Geyserville.

19-3m

HENRY SCHMIEDELL,

(Member of the San Francisco Stock and Exchange Board,)

Stock Broker & Real Estate Agent,

Office, 705 Montgomery Street, San Francisco. 18-1m

Kustel Brothers'

METTALLURGICAL WORKS;

Bryant Street, Between Third and Fourth, San Francisco.

☞ Office, 418 Montgomery Street. ☜

☞ Gold and Silver Ores Reduced.
Practical Assays made of Gold, Silver and Lead Ores.
19-tf Also Cupellation and Refining of Silver and Gold. ☜

Pacific Mail Steamship Company.

THE FOLLOWING STEAMSHIPS WILL BE DESPATCHED FROM SAN FRANCISCO IN THE MONTH OF MAY, 1864.

May 13—GOLDEN AGE.....Wm. F. Lapidge, Commadder.
May 23—GOLDEN CITY.....R. H. Pearson, Commander.

From Folsom street Wharf, at nine o'clock A. M., punctually,

FOR PANAMA.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company.

A. B. FORBES, Agent P. M. S. Co.,

THE citizens of Gold Hill, N. T., have organized a company known as the "Imperial Hotel Company," with a capital of $100,000, to construct a mammoth first-class hotel in that place.

A GREAT INDUSTRIAL FAIR!

—TO BE—

Opened in San Francisco,

—ON—

THE 30TH OF AUGUST, 1864.

THE MECHANICS' INSTITUTE OF SAN FRANCISCO ARE preparing for an Exhibition of Arts, Inventions, Manufactures of Industry in general, upon a scale more grand, attractive and useful than ever before seen upon the Pacific Coast. Their Pavilion, built for the purpose, will occupy one of the city plazas, and will contain every convenience and appliance for an effective display. The Institute appeals to all persons within the scope of its influence, who are engaged in different branches of industry and art, to prepare and forward for Exhibition such articles as they may invent, discover, or make, that are useful, instructive, curious, or suggestive. There is scarcely an occupation in life that cannot supply some article that can be so considered, and by their public exhibition they may start the genius of invention in some other branch of industry or skill, the successful development of which may greatly enrich the State. The premiums and published reports of the Exhibition will widely advertise their qualities and merits.

Each age and country has new wants, which the progress of civilization creates and ingenuity gratifies. Those of our own day and section are improved methods and machinery for reducing ores of the precious metals. A striking feature of the Exhibition will be the number and variety of these, worked by the inventors. It is hoped that information most useful to the mining interest will be elicited. Miners are invited to send ores for exhibition, and trial, in quantities sufficient to be worked seperately in the different machines, in order to test both the relative merits of the machines and the value of the respective metallic veins.

The various Steamboat companies of the Pacific states and territories will, with commendable liberality, transport all articles intended exclusively for exhibition, free of charge, and Wells, Fargo & Co., in like manner, will take charge of them.

All articles forwarded should be labeled—"For the Industrial Fair," and be directed to C. B. Porter, agent.

Regulations for the Exhibition.

1—Persons intending to take part in the Exhibition are requested to make known their intention at the earliest practicable period, stating the kind of article or articles they intend to exhibit, and the probable amount of space required therefor.

2—The Pavilion will be open for the reception of articles for exhibition on Monday, the 22d day of August, and will continue open for that purpose until Monday, the 29th. The Exhibition will open to the public on Tuesday, the 30th day of August.

3—The name of every article should be attached to it; also a description pointing out its merits, when thought desirable by the exhibitor.

4—When articles are entered, a check for the same will be given, which must be presented and surrendered when the articles are withdrawn.

5—Articles intended for sale will be labelled accordingly, but cannot be removed until the close of the Exhibition, except by the written permission of the President.

6—Light, fancy or perishable articles will be received, or may be removed, at any time during the Exhibition, with the consent of the President.

7—All articles deposited will be at the risk of the owners, who are invited to be present during the hours of Exhibition. In the intervals efficient measures will be taken for the protection of property.

8—On the day following the opening of the Exhibition, each class of exhibitors will meet to choose, by ballot, their own Committees of Award; failing in this for one week, Judges will be appointed by the Executive Committee. The Executive Committee will award premiums for such articles as the several judges shall decide to be worthy of the same. The premiums will be delivered as soon as they can be prepared.

9—The morning of each day, until 9 o'clock, will be appropriated to the ladies, and gentlemen will not be admitted during that time.

10—In case of misunderstanding, application may be made to the Executive Committee, who will be at all times in attendance.

11—Steam power will be provided, that machinery of all kinds may be seen in operation; and every possible facility will be given to exhibit all working machinery to the best advantage.

12—Exhibitors or their agents will receive free tickets of admission when, in the opinion of the President, the articles exhibited by them have such value, interest, or merit as to deserve it; but the transfer of any such tickets will work a forfeit of the privileges conferred by them.

13—All communications to be addressed to H. D. DUNN, Corresponding Secretary.

Executive Committee.

JOSEPH BRITTON,	A. S. HALLIDIE.
H. D. DUNN,	P. B. DEXTER,
E. NUNAN,	P. J. O'CONNOR,
W. H. KNIGHT,	C. R. STEIGER,
E. N. TORRY,	W. H. BRYAN,
H. F. WILLIAMS,	J. A. PRITCHARD.

RICHARD S. CLARK,

MINING SECRETARY,

Accountant and Copyist.

Office, No. 610 Merchant street.

N. B.—Mr. Clark has also a commodious room, to rent for annual and Special Meetings of Companies at any hour of the day or evening. 19-3m

Rock Drilling Machines.

HAND AND POWER ROCK DRILLING MACHINES, FOR SALE AT 25 PER CENT LESS THAN IMPORTATION PRICES, TO PEREMPTORILY CLOSE OUT THE ENTIRE STOCK.

Also, Second hand Presses as follows: One Hydraulic Press; One Screw Standing Press; One Lithographic Press. The above presses are all in good order. WM. H. DUNN.

19-1m No. 9, First Street, San Francisco.

To Prospectors and Owners of Mines!

The Pacific Metallurgical Works

Of this City, have been in operation over four years—have operated on nearly all kinds of rock—having never yet found the kind they could not reduce. We now solicit from Mill owners, samples of Ore Sulphurets which they find rebellious or hard to work, and we will either purchase the Ores or shew them how to work them, by their paying the freight to this City.

Advances made

On all kinds of Mineral Rock or Sulphurets!

COPPER ORES, BOUGHT OR ADVANCED UPON FOR SHIPMENT.

We still manufacture the FIRE-PROOF MINERAL PAINT of which there was so much sold last year.

J. C. BRADSHAW, JR. Sec'y.

17-1m Office, 511 Sacramento St., San Francisco.

HENRY BAKER AND JOS. N. SOUTHER,

MINING SECRETARIES.

Rooms 12 & 14 Athenæum Building, corner Montgomery & California Streets, San Francisco.

B. & S. will attend, in a prompt and satisfactory manner, to the Incorporation of Mining and other Companies, the purchase and sale of Stocks and Real Estate, and the adjustment of accounts.

8v8-m

To Druggists and all Prescribing for Neuralgic and Nervous Cases.—Your attention is called particularly to the efficacy of WATTS' NERVOUS ANTIDOTE for the above. Feelings of humanity, independent of pecuniary considerations would prompt you to recommend it in all cases of Neuralgic Pains, Face Ache, from detective teeth, and the General Wasting Away and Debility of the Nervous System, if you could have the assurance that this was what it is purported to be—THE GREAT RELIABLE TRANQUILIZER AND RESTORER OF THE SYSTEM. It has been repeatedly prescribed in cases of excessive drinking, on the verge of Delirium Tremens, and even while laboring under its distressing influence, with astonishing results. It contains no preparation of Opium or Valerian, and is never accompanied with the unpleasant sensation always experienced after taking successive doses of them. It is also the best Soothing Syrup in use. Patients have taken Watts' Nervous Antidote many months in succession, and experienced no unpleasant effect whatever—while the same continued use of many other popular remedies has completely shattered the system.

For sale, Wholesale and Retail, by SAMUEL ADAMS, U. S. Drug Store, corner of Pine and Kearny Streets, San Francisco. 6v8-3m

PRATER'S

PATENT CONCENTRATOR.

THE PROPRIETORS OF THIS NEW CONCENTRATOR, HAVING completed arrangements for its manufacture at the Fulton Foundry, in this city, now offers it to the public, with the fullest confidence that for the purpose for which it is designed

It Has No Equal in Use.

The principle of this machine, which is designed for a Concentrator exclusively, is entirely new. It is designed for separating finely divided quicksilver, amalgam and gold from the sands, and for concentrating and saving the sulphurets, and is to be placed behind all or any other machine in use. It is now in operation at

WHEELER & THAYER'S REDUCTION WORKS,

NORTH BEACH, SAN FRANCISCO,

To whom the Proprietors are permitted to refer, and where all interested in mining are respectfully invited to call and examine the best Concentrator in use.

This machine is now running on waste sands, from which it is taking out an average of 3½ pounds of quicksilver for each ton of sand. Orders or letters of enquiry may be addressed to

HUNGERFORD & PRATER, Proprietors.

San Francisco, April 1st, 1864. 14v8-tf

PACIFIC IRON WORKS,

First street, between Mission and Howard streets,

SAN FRANCISCO.

GODDARD & COMPANY,

—MANUFACTURERS OF—

STEAM ENGINES & BOILERS,

QUARTZ, FLOUR, SAW AND SUGAR MILLS,

AMALGAMATINO PANS AND BARRELS, MINING PUMPS AND HOISTING GEAR, WATER WHEELS,

And Machinery of Every Description.

Also furnish all kinds of Iron and Brass Casting. Only Manufacturers of the celebrated Bryan Battery. 14-tf

THE ATLAS IRON WORKS,

No. 24 & 26 Fremont Street.

—MANUFACTURE—

STEAM ENGINES, MINING MACHINERY, QUARTZ MILLS, MINING PUMPS, AMALGAMATORS, AND ALL OTHER KINDS OF MACHINERY FOR MINING OR MILLING PURPOSES.

Castings of all kinds,

Furnished. Our new and complete arrangments will enable us to do this kind of work in a superior manner and on the shortest notice.

Steam Engines of Scott's Patent,

Can be furnished of any size, and of high or low pressure. These Engines combine so many points of decided improvement in their simplicity of construction, and in the economy of fuel for running them, as to make them superior to all others. One can be seen in operation at the works, where all information respecting them can be obtained.

16v8 THOMAS SCOTT & CO.,

Hepburn & Peterson's

AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION OF THE Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos. 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver Suite Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

[Illustrated in the Mining and Scientific Press, April 9th, 1864.]

nov8 3m* HEPBURN & PETERSON.

BLASTING POWDER!

Prime Blasting Powder, on Consignment

And for sale in lots to suit purchasers, by

J. S. CURTIS,

6v8-tf No. 405 Front street, San Francisco.

Mining Laws and Forms

JUST PUBLISHED, BY H. H. BANCROFT & CO., BEING A compilation of the Statutes of this State relating to Mining Corporations, Assessments, etc., with a digest of decisions of the Supreme Court and Forms of the Incorporation of Companies. Compiled by H. B. Congdon. 12mo., flexible cloth. $1,50. For sale at all the Bookstores. sep14-tf

WARRIN, SMITH & CO.,

Commission Merchants,

—ALSO—

REAL ESTATE, STOCK AND EXCHANGE BROKERS,

Members of the San Francisco Board of Brokers Members of the Pacific Board of Brokers.

No. 618 Merchant Street, (above Montgomery) San Francisco.

☞ MONEY TO LOAN IN SUMS TO SUIT. ☜ 18-tf

DIPHTHERIA is an inflammation of the throat, very analogous to croup, except that instead of attacking the breathing apparatus it affects the tonsils and swallowing apparatus. True diphtheria, says Dr. Rand, of the Franklin Institute, of Philadelphia, and for many years a medical practitioner, is rare and very fatal. It is accompanied with an exudation of lymph matter. A large number of cases of sore throat, quinsy, etc., are called diphtheria, when nothing like it exists.

MAPLE SUGAR.—*Hunt's Merchants' Magazine* estimates the crop of maple sugar at 28,000 tuns yearly, or 62,700,000 lbs. But a very much larger amount can be produced, and doubtless will be, thus relieving the country to that extent from foreign indebtedness.

THERE is more nutrition in one pound of cheese than in two pounds of flesh. With us cheese is regarded rather as a luxury, while in England it is regarded as one of the substantial articles of food, and it is not uncommon for the workmen there to make a full meal on bread and cheese alone.

DR. MAPOTHER, of London, has just startled the world with a paper, read before the Bay College, in which he assumes that the bleeding of meat intended for food, impairs its nutritious value—that the strength of meat is the blood, and that it should be retained.

TREASURE SHIPMENTS.—The Reese River *Reveille*, of April 26th, says:—"Since the 1st of April, Wells, Fargo & Co., have shipped $20,391.98. Dr. Rodgere, the agent, estimates the shipment for the month at $40,000. For the past week Messrs. Paxton & Thornburgh have shipped 11,316 ounces.

CORN found at Rome has yielded very closely the same proportions of carbon, hydrogen and oxygen as fatty coals—involving just such a change as is due to decomposition by heat.

WM. T. COLEMAN & CO.,
70 WALL STREET,
NEW YORK.

BUY AND SELL, ON COMMISSION, STATE AND CITY BONDS, Bank and Railroad Stocks, and other prime securities.
Buy and sell Exchange on California, Oregon and Western Cities.
Grant Letters of Credit, available in any part of the United States.
Receive moneys on deposit, and allow interest on special deposits at such rates as may be agreed upon.
Receive consignments of produce from California and Ports in the Pacific.
Make advances upon approved merchandise consigned to our San Francisco house.
Fill orders for staple goods of all kinds, for the California and Oregon markets, and effect Marine and Fire Insurance in the best offices.
Buy and sell and charter Vessels for all trades.
AGENTS FOR "COLEMAN'S CALIFORNIA CLIPPER LINE," loading and despatching regularly, every month, two to three first class clippers for San Francisco. Goods forwarded from any part of the United States or Europe, will be received with care, and shipped immediately at lowest current rate of freight. Bonded goods carefully attended to.
Orders for purchase of merchandise should be accompanied with a remittance of about 20 per cent. of the cost, or satisfactory arrangements can be made with our San Francisco house. On orders for Bonds and Stocks, 10 per cent. of the par value is always required.
We beg to say, no house has superior facilities for the transaction of all this business, and parties intrusting their interests to our care may rely upon our most faithful and watchful attention.
WM. T. COLEMAN & CO.,
70 Wall street, New York,
18v8 And California and Front streets, San Francisco.

Advances Made on Copper Ores,
WOOL, HIDES, WHALE OILS, ETC., CONSIGNED TO OUR friends in New York, Boston or England.
WM. T. COLEMAN & CO.,
18v8 San Francisco.

Exchange on New York,
PAYABLE IN COIN OR IN CURRENCY—FOR SALE, IN SUMS to suit, by WM. T. COLEMAN & CO.,
18v8 California and Front streets, San Francisco.

IMPORTANT!
The Best is Always the Cheapest!
THE PHŒNIX
INSURANCE COMPANY,
OF HARTFORD, CONN.,
And the $75,000 Deposit Act.

THE BILL REQUIRING ALL FOREIGN INSURANCE COMPANIES to make a special Deposit of $75,000 in Stocks of the United States, of this State, or stocks or bonds of the city, or city and county of San Francisco, with their banker or bankers in this city, on the FIRST DAY OF MAY, 1864, having become a law, it may be of interest to the insuring public to know that the PHŒNIX INSURANCE COMPANY, OF HARTFORD, IS READY TO COMPLY WITH ITS REQUIREMENTS AT ONCE. The Company has over $50,000 in city and county of San Francisco bonds, already on deposit with Messrs. Banks & Co. R. H. MAGILL, General Agent.

CITY OFFICE—In the "James King of Wm." building, southwest corner of Montgomery and Commercial streets, San Francisco.
I. FRANK, City Solicitor. (14v8-tf) L. B. DELL, City Agent.

MINING NOTICES—APRIL 30th.

Umatilla Gold and Silver Mining Company, Reese River District, Lander County, Nevada Territory. Office, Corner of Bush and Kearny sts., San Francisco.

Notice is hereby given that the annual meeting of Stockholders of the Umatilla Gold and Silver Mining Company, Reese River district, Lander county, N. T., for the election of a Board of Trustees to serve for the ensuing year, and the transaction of any other business that may come before the meeting, will be held at the Office of the Company, in the City of San Francisco, on TUESDAY, the 17th day of May, 1864, at 7½ o'clock, P. M.

17 L. E. MORGAN, Secretary.

Notice.—The Annual Meeting of the Stockholders of the Mountain Mary Gold and Silver Mining Company, will be held at the Office of the Company, 430 Montgomery street, San Francisco, on the third Saturday in May next, for the purpose of electing three Trustees. J. WARREN CLARK, Sec'y.

San Francisco, April 27th, 1864. 18-4t

Wide West Copper Mining Company, Stanislaus District, Calaveras county, Cal.

A STOCKHOLDERS' MEETING of the Wide West Copper Mining Company will be held at the office of the Company, No. 645 Clay street, on Tuesday, May 31st, 1864, at 7½ P. M., for the election of officers, and such other business as may come before it.

M. G. ELMORE, Secretary.

San Francisco, April 29th, 1864. 18-4t

Pena Silver Mining Company.—Notice is hereby given that the annual meeting of the Stockholders, of the "Pena Silver Mining Company," will be held at the Office of the Secretary, No. 411 Clay street, on WEDNESDAY, the 8th day of June, 1864, at 7 o'clock, P. M., for the purpose of electing a Board of five Trustees for the ensuing year. By order.

WM. FAULKNER, Secretary.

April 26 1864. (18-4t) Office, 411 Clay street San Francisco.

La Marronena Silver Mining Company.—Notice is hereby given that the annual meeting of the Stockholders of the La Marronena Silver Mining Company will be held at the Office of the Secretary, No. 411 Clay street, on WEDNESDAY, the 8th of June, 1864, at 4 o'clock, P. M., for the purpose of electing a Board of Trustees for the ensuing year. By order.

WM. FAULKNER, Secretary.

April 26, 1864. (18-4t) Office, 411 Clay street, San Francisco.

Storm Cloud Silver Mining Company, Reese River District, N. T.

Notice is hereby given that in accordance with the by-laws of the Company, the first quartely meeting of the Stockholders of the Storm Cloud Silver Mining Company, for the election of Trustees, and transaction of other business, will be held, at the Office of the Secretary, No. 624 Montgomery St., San Francisco, on MONDAY, May 30th, 1864, at 3 o'clock, P. M. By order of the Board of Trustees.

18-4t H. H. McCOUGHTRY, Secretary.

Bay City Silver Mining Company, Reese River District, N. T.

Notice is hereby given that in accordance with the by-laws of the Company, the first quartely meeting of the Stockholders of the Bay City Silver Mining Company, for the election of Trustees and the transaction of other business, will be held at the office of the Secretary, No. 624 Montgomery street, on MONDAY, June 6th, 1864, at 3 o'clock, P. M. By order of the Board of Trustees.

18 4t H. H. McCOUGHTRY, Sec'y.

Cortez Gold and Silver Mining Company, Cortez District, Nevada Territory.—San Francisco, April 28, 1864.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 27th day of April, 1864, an Assessment of two dollars and fifty cents per share was levied upon the capital stock of said Company, payable immediately, in gold coin of the United States of America, to the Secretary, at the office of the Company, 706 Montgomery street, San Francisco.

Any stock upon which said Assessment shall remain unpaid on the 2d day of June, 1864, will be advertised on that day as delinquent, and, unless payment shall be made before, will be sold on the 20th day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of sale.

R. N. VAN BRUNT, Secretary,

18-4t No. 706 Montgomery street, San Francisco.

Mountain Mary Gold and Silver Mining Company, Silver Mountain, Alpine county, Cal.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held April 23d, 1864, an assessment of twenty-five cents per share was duly levied, payable in U. S. Gold coin, to the Secretary, J. Warren Clark, 430 Montgomery Street, San Francisco (room No. 5, 3d floor), or to COUNCIL GOODELL, Superintendent, Silver Mountain.

Any stock upon which said assessment shall remain unpaid on the 25th day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 16th day of June, 1864, to pay the delinquent assessment and costs of advertising and expenses of sale. By order of the board of Trustees.

J. WARREN CLARK, Sec'y.

18-4t Office, 430 Montgomery street.

George Leet Gold and Silver Mining Company, Crown Point Tunnel and Mining Company, Reese River Mining District, N. T.

Notice is hereby given, that at a meeting of the several Boards of Trustees of said Companies held on the 25th day of April, 1864, an assessment of fifty (50) cents per share was levied upon the Capital Stock of said Companies, payable immediately, in United States Gold coin, to the Secretary, at his Office, No. 509 Clay Street, or to S. F. AMBLER, at Austin, N. T.

Any Stock upon which said assessment shall remain unpaid on Saturday, the 28th day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 15th day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

D. B. FRANCIS, Secretary.

18-4t Office, 509 Clay St., San Francisco.

Is is full of the most valuable reading matter. Those at all interested in mining affairs should subscribe for it at once.—*Mumerly Gazette.* It is devoted to news, art, science and progress, and should receive a liberal support.—*Solano Press.*

Tellurium Gold and Silver Mining Company, Pine Grove, Amador county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 21st day of April, 1864, an Assessment of one dollar per share was levied upon the Capital Stock of said Company, payable on the 23d day of April, 1864, in United States gold and silver coin, to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 4th day of June, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale. By order of the Board of Trustees.

WM. H. MARTIN, Secretary.

Office, 627 Clay street, San Francisco. 17-4t

Grafton Gold & Silver Mining Company, Reese River Mining District, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 25th day of April, 1864, an assessment of thirty (30) cents per share was levied upon the Capital Stock of said Company, payable immediately, in United States Gold Coin, to the Secretary, at his Office, No. 509 Clay St., or to S. F. AMBLER, at Austin, N. T.

Any Stock upon which said assessment shall remain unpaid on Saturday the 28th day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 15th day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

D. B. FRANCIS, Sec'y.

18-4t Office, 509 Clay Street, San Francisco.

Gobernadora Silver Mining Company, San Antonio District, Lower California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 28th day of April, 1864, an Assessment of one dollar per share was levied upon the Capital Stock of said Company, payable on the 30th day of April, 1864, in United States gold coin to the Secretary, at the office of the Company.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 28th day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 11th day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

C. W. HAYDEN, Secretary.

18-4t Office, 625 Clay street, San Francisco.

Lewis Consolidated Gold and Silver Mining Company. Nicolaus Gold and Silver Mining Company, Reese River Mining District, N. T.

Notice is hereby given, that at a meeting of the several boards of Trustees of said Companies held on the 25th day of April, 1864, an assessment of twenty-five cents per share was levied upon the Capital Stock of said Companies, payable immediately, in United States Gold Coin, to the Secretary, at his Office, 509 Clay St., or to S. F. AMBLER, at Austin, N. T.

Any Stock upon which said assessment shall remain unpaid on Saturday, the 28th day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 15th day of June, 1864, to pay the delinquent assessment, together with costs of Advertising and expenses of the sale. By order of the Board of Trustees.

D. B. FRANCIS, Secretary.

18-4t Office, 509 Clay Street, San Francisco.

Eureka Mill and Mining Company, Big Creek District, Lander county, N. T.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 25th day of April, 1864, an assessment of five ($5) dollars per share was levied upon the Capital Stock of of said Company, payable immediately, to the Secretary, or to R. W. BRETT.

Any stock upon which said assessment shall remain unpaid on Saturday, May 28th, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, June 11th, 1864, at 12 o'clock M. to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. N. BUTLERU, Sec'y.

18-4t Office, No. 203 California St., San Francisco.

CAUTION.

Enterprise Gold and Silver Mining Company.—Location, El Dorado Canon, Territory of Arizona.

The public are hereby cautioned against purchasing the following Certificates of Stock of the above named Company, the same having been sold, by order of the Board of Trustees, to pay assessments delinquent—to wit:

Names.	No. Certificate.	Shares.
T. H. Williams	2, 4, 5, 7, 8	20, 10, 10, 30, 10
	10, 11, 18, 19, 20	20, 10, 25, 25, 25
	21, 45, 97, 98, 99, 100	25, 5, 5, 5, 5, 5
M. D. Fairchilds	14	35
Jacob Heintz	40	5
Joseph F. Ridler	103	5
A. M. Bennett	15, 92	not issued, 27, 10, 5
S. L. De Lano	46	10
Abraham Jones	102	10
C. A. James	26, 82, 90, 01	5, 5, 5, 10
J. P. Clark	24	20
O. E. Johnson	28, 93, 94	15, 5, 5
C. Fink	29	5
Robert Keir	30, 31, 32	25, 25, 25
Alexander Kier	33, 34, 35	25, 25, 25
William Wosenchraft	36, 37, 38	25, 25, 25
Thomas Brown	77	5
C. W. Young	85, 86, 88	2, 2, 1
John Miller	79, 80	50, 50
Columbia Dyer	89	5
F. A. Burch	76	10

L. B. WOOSTER, Secretary,

18-4t 622 Washington street, San Francisco.

Office of the Henry and Bernard Consolidated Gold, Silver and Copper Mining Company.

WANTED.—Proposals for runing a tunnel, from 130 to 150 feet into a claim owned by the Henry & Bernard Consolidated Gold, Silver & Copper Mining Company, situated in Weaver district, Arizona Territory, about 10 miles from Olive City. For description of the ground and specifications, Apply to I. M. BLOOD, General Superintendent, at the Office of the Company, No. 334 Montgomery street, San Francisco, from 10 to 11 o'clock, A. M.

16v8 4t CEO. W. GILDERSLEIVE, Sec'y

MINING NOTICES—APRIL 30th.

Scorpion Silver Mining Company, Virginia District, Nevada Territory.

Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Scorpion Silver Mining Company, there will be sold, at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery St., San Francisco, on Saturday, May 28, 1864, at 11 o'clock A. M. of that day, to the highest bidder for cash, in U. S. coin, so many shares of the capital stock of said Company, standing in the names of the following shareholders, as will be necessary for the payment of an assessment of twenty-five cents per share, duly levied thereon, by the Board of Trustees, on the 21st day of March, A. D. 1864, and assessments previous thereto, together with the expenses of advertisement and sale, to wit:

Names.	Shares.	Assessments—No 20	No 21	No 22	No 23	No 24	No 25,	Amt due.
B Bayerque	12						$3 00	$3 00
J T Hartwell	16					4 00		4 00
J L Butford	89				14 75	14 75	14 75	44 25
S F Butford	10						6 00	6 00
C Broad	10						2 50	2 50
F Boilleau	10			2 50	2 50	2 50	2 50	10 00
Mrs L G Baker	101		2 50	2 50	2 50	2 50	2 50	12 50
S E Barnard	1			25	25	25	25	1 00
Rebecca Bones	4					1 00	1 00	2 00
S L Cofran	20		5 00	5 00	5 00	5 00	5 00	25 00
L Chopard	2				50		50	1 50
L E Coleman	2						50	1 00
Chas Clayton	5						1 25	1 25
C Chevallier	16					4 00	4 00	12 00
F Crozet	19						4 75	4 75
W D Dyer	12			3 00	3 00	3 00	3 00	12 00
— Dentsch	3						75	75
A Esmault	24						6 00	6 00
M Eldred Jr	115						28 75	28 72
A Finance	50						12 50	12 50
E D Feusier	8			50	50	50	2 00	3 50
H Feusier	4						1 00	1 00
C Gignoux	10						2 50	2 50
A Gerbinkle	5						1 25	1 25
F Henderson	228				57 00	57 00	57 00	171 00
J T Helmken	10						2 50	2 50
H Hentsch	10			2 50	2 50	2 50	2 50	10 00
B A Hendrickson	5						1 25	1 25
L Heywood	5						1 25	1 25
J S Hughes	12				3 00	3 00	3 00	9 00
N T Johnson	12			2 50			2 50	5 00
John Kelly	49				6 00	12 25	12 25	30 59
J B Lafargue	2				50	50	50	2 00
A J McCabe	100					25 00	25 00	50 00
W W Morgan	2				50	50	50	2 00
John McKewen	9						2 25	2 25
John Paine	3	75	75	75	75	75	75	4 50
Emeline A Paine	3	75	75	75	75	75	75	5 50
M Pratt	2						50	50
P Robinson	100						25 00	25 00
Robt Sherwood	200						50 00	50 00
Merman Smith	10						2 50	2 50
Emma R Scheper	1						25	25
P G Venard	24					6 00	6 00	12 00
Henry Vollers	5						1 25	1 25
G Venard	20					5 00	5 00	10 00
E D Waters	12						3 00	3 00
Eliza A Waters	12						3 00	3 00
Ella Waters	1						25	25

By order of the Trustees. W. H. MARTIN, Secretary.
San Francisco, April 23, 1864. (15-4t) 627 Clay street.

Palma Silver Mining Company, Locality of Mine, District of Ures, State of Sonora, Mexico.

NOTICE.—There are delinquent, upon the following described stock on account of assessment No. 2, levied February 13th, 1864, and as assessment No. 3, levied on the 25th day of March, 1864, the several amounts set opposite the names of the respective shareholders as follows:

Names.	Asst.	No. Cert.	No. Shs.	Amts
J. O'Dell	2	19	20	$20 00
J. O'Dell	3	19	20	40 00
F. Dodge	2	20	20	20 00
F. Dodge	3	20	20	40 00
Henry Chester	2	21	10	10 00
Henry Chester	3	21	10	20 00
Thos. Miller	2	23	10	10 00
Thos. Miller	3	23	10	20 00
W. G. McElharan	2	25	10	10 00
W. C. McElharan	3	25	10	20 00
David Fogerty	2	26	10	10 00
David Fogerty	3	26	10	20 00
John Lockwood	2	29	5	5 00
John Lockwood	3	29	5	10 00
J. H. Stone	2	78, 79, 80, 82, 83	85, 86, 70	70 00
J. H. Stone	3	78, 79, 80, 82, 83	85, 86, 70	140 00
Jesse Geib	2	31	20	20 00
Jesse Geib	3	31	20	40 00
Paul Corno	2	32	25	25 00
Jos. Van Doren	3	15	100	200 00
H. A. Wyman	3	22	10	20 00
A. B. Bronson	3	30	25	50 00
James Hulburt	3	141	15	30 00
Geo. A. Moore	3	74, 87	20	40 00
J. W. Sargent	3	33, 34, 35, 36, 37, 38, 39, 60		120 00
A. Z. Vallenu	3	140	10	20 00
Geo. K. Phillips	3	147, 148, 149	15	30 00

And in accordance with law, and an order of the Board of Trustees, made on the 25th day of March, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the sales room of Jerome Rice & Co., on the 30th day of May, 1864, at the hour of 12 o'clock, M., of said day, to pay said delinquent assessment thereon, together with costs of Advertising and expenses of the Sale.

GEORGE L. FAULKNER, Sec'y.
18t5t Office, 411 Clay Street, San Francisco.

Gobernadora Silver Mining Company, San Antonio District, Lower California.—Office, 625 Clay street, San Francisco, California.

Notice is hereby given, that in accordance with an order duly made by the Board of Trustees of the Gobernadora Silver Mining Company, there will be sold, at Public Auction, by Jerome Rice & Co., Auctioneers, at their salesroom, No. 327 Montgomery street, San Francisco, on MONDAY, May 30th, 1864, between the hours of 11 A. M. and 2 P. M. of that day, to the highest bidder for cash, in United States coin, so many shares of the capital stock of Said Company, standing in the names of the hereinafter mentioned stockholders as will be necessary to pay all assessments now due thereon, together with cost of advertising and all accruing charges, unless the same be previously paid:

Names.	No. Shs.	Amt due	Names.	No. Shs.	Amt due.
John Brazer	130	$78 00	W. H. Knapp	105	$63 00
William Foss	5	3 00	H. Kilham	50	30 00
B. F. French	10	6 00	Chas. McDonald	20	12 00
N. E. Grimes	10	6 00	Thos. McDonough	5	3 00
Wm. Hazeltine	18	10 80	Chas. F. Nottle	20	12 00
A. H. Jordan	50	30 00	J. W. Sprague	120	72 00
R. A. Sanford	3	1 80			

By order of the Board of Trustees.
18-5t C. W. HAYDEN, Secretary.

Penn Silver Mining Company.—Location of Mine, Lower California.—Office of Company, 411 Clay street, San Francisco.

Notice.—There are delinquent, upon the following described stock of the above named Company, on account of Assessment No. 3, levied on the 25th day of November, 1863, and Assessment No. 4, levied on the 23d day of March, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Assts.	No. Cert.	No. Shs.	Amt.
G. E. Schenck	3	75	3½	5 25
B. A. Bidlack	3 and 4	65	16 2-3	$25 01
J. C. Dow	3 and 4	50	10	25 00
J. G. Dow	do	51	10	25 00
J. G. Dow	do	52	10	25 00
J. G. Dow	do	53	3 1-3	8 33
J. G. Dow	do	148	16 2-3	41 67
James H. Stone	4	112	22 1-3	22 33
James H. Welch	4	150	26 1-3	25 33
G. W. Botts	4	142	8 1-3	8 33
Geo. B. Lillie	4	159	14 2-3	14 07
J. F. Dorland	4	80	8 1-3	8 33
F. G. Norman	4	92	8 1-3	8 33
F. G. Norman	4	170	0 1-3	0 33
I. N. Thorne	4	83	18 1-3	18 33
J. W. Sargent	4	58	16 2-3	10 07
J. W. Sargent	4	59	16 2-3	16 67
Timothy Sargent	4	60	16 2-3	16 67
Mrs. H. A. R. Carter	4 (not iss'd)	155	3 1-2	3 50
David Ross	4	80	9 2-3	0 67
Susan E. Thorne	4	82	10	10 00
Susan J. Bryant	4	81	5	5 00
George A. Moore	4	111	8	3 00
John Todd	4	105	5 2-3	5 07
John Todd	4	144	3	3 00
Charles Geddes	4	151	1	1 00
James Delancy	4	152	2 1-3	2 33
A. H. Hagadorn	4	168	8 1-3	8 33
W. H. Baxter	4	173	57	57 00
R. C. Jacobs	4	137	32 2-3	32 67
R. C. Jacobs	4	32	0 2-3	6 67
Charles E. Brownell	4	118	4	4 00
Charles E. Brownell	4	179	3	3 00
Charles E. Brownell	4	140	8 2-3	8 67

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of March, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, on the 30th day of May, 1864, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale. WM. FAULKNER, Secretary.
April 26th, 1864. (18-4t) Office 411 Clay street, San Francisco.

La Marronena Silver Mining Company.—Location of Mine, Lower California.

NOTICE.—There are delinquent upon the following described stock of the above named Company, on account of Assessment No. 3, levied on the 25th day of November, 1863, and Assessment No. 4, levied on the 23d day of March, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shares.	Amt.
B A Bidlack (baf of 3d ass't)	33	13 14-22	$13 63
B A Bidlack (4th ass't)	33	13 14-22	68 22
J H Stone,	149	14 17-22	73 83
J H Stone,	152	1 1-22	5 45
J H Welch,	4	22 8-22	111 81
J H Welch,	160	2	10 00
J W Sargent,	8	27 6-22	136 38
Timothy Sargent,	9	13 14-22	68 22
G W Botts,	88	6 18-22	31 10
George B Lillie,	16	13 14-22	68 22
J J Corrigan,	84	9 2-22	45 45
J J Corrigan,	86	9 2-22	45 45
J J Corrigan,	90	6 2-22	30 45
F G Norman,	167	11 14-22	58 22
J G Dow,	135	10	50 00
J G Dow,	136	10	50 00
J G Dow,	94	13 14-22	68 22
Miss M A Phillips,	157	21 6-22	106 55
Edson Sammis,	58	19 16-22	98 68
Jas F Dorland,	39	6 18 22	34 10
John Todd,	41	4 14-22	23 22
John Todd,	90	2	10 00
David Ross,	142	7 20-22	39 56
Susan J Bryant,	45	4 2-22	20 45
Susan E Thorne,	44	8 4-22	40 90
Geo A Moore,	51	2 10-22	12 27
Geo A Moore,	56	1-2	2 50
E B Gifford,	95	7	35 00
Jas Delaney,	98	3	15 00
C Sabin,	100	4 1-2	22 50
Geo W Thompson,	107	4	20 00
H K Snow,	133	2	10 00
H W Snow,	148	1	5 00
H O Howard,	161	5	25 00
Frank C Snow,	164	2	10 00
R C Jacobs,	123	10	50 00
R C Jacobs,	124	10	50 00
R C Jacobs,	131	8	40 00
Mrs C E Brownell,	154	5 14-22	28 22

And in accordance with law, and an order of the Board of Trustees made on the 23d day of March, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on the 30th day of May, 1864, at the hour of 12 o'clock, M., of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

WM. FAULKNER, Secretary.
18-4t
April 26, 1864. Office 411 Clay street, San Francisco.

Table Mountain Copper Mining Company, Stanislaus District, Calaveras county, California.—Office 645 Clay street, San Francisco, April 30th, 1864.

Notice is hereby given, that in accordance with the laws of the State of California, and the by-laws of the Company, there will be sold, at Public Auction, to the highest bidder, for cash, in U. S. gold coin, on WEDNESDAY, June 1st, 1864, at 10 o'clock A. M. of that day, at the office of the Company, 645 Clay street, San Francisco, so many shares of the capital stock of this Company, standing in the names of the following persons, as will be necessary for the payment of Assessment No. 5, of fifty cents per share, duly levied thereon March 25th, 1864, by the Board of Trustees, together with the expenses of advertising and sale:

Names.	No. Certificates.	No. Shares.	Am't due.
Wm. H. Geddes	33	16	$8 00
Wm. H. Geddes	34, 35, 36, 37, 38	10 each	25 00
A. H. A. Mason	143	133	66 50
L. W. McLaughlin	167	5	2 50
Lewis McLaughlin	135	5	2 50
E. F. Ogden	86	10	5 00
Wm. Boyer	204	10	5 00
Levi Drew	205	5	2 50
E. W. Linsley	181	2	1 00

By order of the Board of Trustees.
18 4t M. G. ELMORE, Secretary.

Cocheco Gold and Silver Mining Company, Office, 625 Clay street, San Francisco, California. Location, Humboldt District, N. T.

Notice is hereby given that in accordance with an order duly made by the Board of Trustees of the Cocheco Gold & Silver Mining Company, there will be sold at public auction at the Office of the Company, on Monday, May 30th, 1864, at 12 o'clock, M., to the highest bidder for cash, in U. S. Coin, so many shares of the Capital stock of said Company standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay all assessments now delinquent thereon, together with cost of advertising and all accruing charges, unless the same be previously paid.

Names.	No. shs.	Amt due	Names.	No. shs.	Amt due
Geo Acker	20	10 00	Henry Michaels	10	2 50
Mrs M A Torrey	30	15 00	N A Watson	50	12 50
Adrian Spear	10	5 00	Chas H Aitken	10	2 50
L Corey	30	15 00	P J Barber	25	0 25
Sam'l S Davis	20	10 00	A Burrill	10	2 50
N B Mulville	197	98 50	A Levy	1	25
Wm T Towle	15	7 50	S Reerdon	10	2 50
Miss Amelia Eaton	10	5 00	G B Hudson	10	2 50
T T Kneeland	50	25 00	A McCormick	5	1 25
Thomas Williams	5	2 50	John Lewry	10	2 50
Carlos Mills	3	1 50	C Gignoux	10	2 50
Wm H Manning	200	100 00	J B Bloomingdale	10	2 50
A B Schafer	50	25 00	Lydia Stewart	10	2 50
W H Vanderwater	35	17 50	B M Barker	10	2 50
W H Mills	305	150 00	J R Nealy	5	1 25
Chas McDonald	40	10 00	A W Garrett	10	2 50
W B Allen	10	2 50	John Taylor	5	1 25
Henry Mahoney	5	1 25	Cath M Gilbert	10	2 50
Thomas Brown	5	1 25	J Hamilton	50	12 50
W H Harvey	15	3 75	J N Sewal	100	25 00
S P Cornwall	10	2 50	D Conrad	10	2 50
Caroline T Hall	10	2 50	Dr H Austin	10	2 50
Dan'l H Mitchell	25	6 25	H H Schafer	50	12 50
A N Byfield	65	16 25	Paul Rousso	10	2 50
J B Wells	20	5 00	Warren Holt	20	5 00
Henry Mess	50	12 50	Margaret Upton	10	2 50
Geo Robinson	50	12 50	S Cohen	5	1 25
Jas Drury	30	7 50	Tabor & Hall	40	10 00
Richard Hall	20	5 00	Law Mok	20	5 00
F Broilleau	35	8 75	Joseph Wells	100	25 00
T H Downing	0	1 50	G T Sewal	10	2 50
Edmond Long	3	75	Thomas Prince	50	12 50
Jas R Gates	50	12 50	J G Klumpke	00	15 00
N Atkinson	228	57 00			

By order of the Board of Trustees.
18-5t C. W. HAYDEN, Sec'y.

Scottie Gold and Silver Mining Company, Office, No. 528 Clay street, San Francisco, California, April 12th, 1864.

Notice is hereby given that in accordance with an order duly made by the Board of Trustees of the Scottie Gold & Silver Mining Company, there will be sold, at public auction, by Jerome Rice & Co., at their salesroom, No. 327 Montgomery street, San Francisco, on Tuesday, May 31st, 1864 at 12 o'clock, M., to the highest bidder for cash, in United States Coin, so many shares of the Capital Stock of the said Company, standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay all assessments, now delinquent thereon, together with costs of advertising and all accruing charges, unless previously paid.

Names.	No. Shs.	No. Cert.	Assts.	Amt.
R. Barney	33	41	2nd & 3d	$49 50
S. C. Wright	8	46	2nd & 3d	12 80
R. B. Lovejoy	3	51	3d	3 00
A. K. Durgin	5	89	2nd & 3d	7 50
L. De Young	5	112	3d	5 00
Marta Cohn	5	113	3d	5 00
Elois De Young	5	127	3d	5 00
John W. Shore	50	128	3d	50 00
H. Dockweiler	10	129	3d	10 00
A. K. Durgin	2	131	1st 2nd & 3d	4 00
W. R. Greeley	10	141	2nd & 3d	15 00
James Hanna	20	5	1st 2nd & 3d	40 00
P. P. Wood	40	165 to 168	3d	40 00
J. McGinn	25	180	3d	25 00
W. W. McCoy	20	95 & 96	1st 2nd & 3d	40 00
W. W. McCoy	25	13	1st 2nd & 3d	50 00
W. W. McCoy	3½	93	1st 2nd & 3d	7 00
W. W. McCoy	15	125	1st 2nd & 3d	30 00

By order of the Board of Trustees.
18-5t B. W. MUDOE, Secretary.

Mount Eden Mining Company, Owen Lode, Gold, Hill District, N. T.

Notice, There are delinquent, upon the following described Stock on account of assessment heretofore levied, the several amounts set opposite the names of the respective Shareholders, as follows:

Names.	No. Assts.	No. Cert.	No. Shs.	Amt.
*Bonestell, L. H.	1 and 2	59	20	$20 00
*Bonestell, L. H.	1 and 2	60	10	15 00
Barker, S.	1 and 2	28	10	15 00
Barker, S.	1 and 2	29	10	15 00
Barker, S.	1 and 2	30	5	7 50
Brewer, F. A.	1 and 2	93	5	7 50
*Congdon, H. B.	1 and 2	91	10	15 00
*Congdon, H. B.	1 and 2	82	5	7 50
McKinnaly, Henry	2	42	10	5 00
McKinnaly, Henry	2	43	10	5 00
White, Robt.	2	10	5	2 50

*Sold but not transfered.

And in accordance with law, and an order of the Board of Trustees, made on the 15th day of April, 1864, so many shares of each parcel of said Stock as may be necessary, will be sold at Public Auction at the Auction room of John Middleton, No. 409 Montgomery street, on the 31st day of May, 1864, at the hour of 12 o'clock, M. of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

H. B. CONGDON, Secretary.
18-5t Office, No. 620 Washington street, San Francisco.

Rubicon G. and S. M. Companies, Nos. 1, 2, 3 and 4 Keyes District, Mono County, Cal.

At a meeting of the Board of Trustees of the above named Companies, on motion the Secretary was duly instructed, until otherwise ordered, to publish all notices of Annual Meetings, Assessments, and Sales, in the MINING AND SCIENTIFIC PRESS, and the stockholders are hereby notified that the said advertisements will hereafter appear in that paper.

J. B. JOHNSON, President.
J. P. VAN HAGEN, Secretary.
San Francisco, April 18th, 1864. 17-4t

No. 17—April 23, 1864.—Copperopolis Copper Veins—Illustrated; Zirvogel's Method of Extracting Silver; Santa Catalina Island; Letters from Reese River; Owen's River; City Stock Reports—Sales, Bids and Prices Asked; Washoe Sales; Reese River Stock Board; Mining Gossip; How Some People Get Rich; Mechanical Department—More About Generating Steam; Explosion of Steam Boilers; Artificial India Rubber; Humboldt Mines; New Patents; Safe Hook; Mining Share Market; Howell's Cradle; Reese River Mines, No. 2; The Kohler Brothers and Other Mines; Mining Laws Passed by the Last Session of the Legislature; Washoe Mining Items, Incorporations, etc.

MINING NOTICES—APRIL 23d.

Union Tunneling Company, Santa Clara District, Humboldt County, Nevada Territory.

Notice is hereby given that at meetings of the Board of Trustees of the above Company, held on the sixth day of February and on the Eleventh day of April, A. D. 1864, assessments Nos. 2 & 3 of Fifty (50) cents each, were duly levied upon each and every share of the Capital Stock, payable immediately to the Secretary at his Office in U. S. Gold & Silver coin.

The above assessments may be paid to H. H. WOOD, agent for the Company in California, at 627 Clay St., San Francisco, until the Twelfth day of May, A. D. 1864. J. J. KELLOGG. Sec'y.

Santa Clara, Humboldt County, N. T., April 12th, 1864. 17-3t

Lord Byron Gold and Silver Mining Company, Devil's Gate District, N. T.

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 16th day of April, 1864, an assessment of one dollar per share was levied upon the Capital Stock of said Company, payable on the 23d day of April, 1864, in U. S. Gold coin, to the Secretary or to R. McMURRAY, Esq., Supt. at Silver City, Nevada Territory.

Any Stock upon which said assessment shall remain unpaid on Saturday, the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 4th day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

H. B. CONODON, Sec'y.

Office, 620 Washington St., Room No. 3. 17-4t

Silver Star Gold and Silver Mining Company, Virginia District, Storey county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 21st day of April, 1864, an Assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable on the 22d day of April, 1864, in United States gold and silver coin, to the Secretary at the office, or to Daniel Nowlan, Virginia City.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday the 8th day of June, 1864, to pay the delinquent Assessment, together with the costs of Advertising and expenses of the sale. By order of the Board of Trustees.

WM. E. MOODY, Secretary.

Office, No. 706 Montgomery street, San Francisco, 17

Rubicon Gold & Silver Mining Company No. 1.
Rubicon Gold & Silver Mining Company No. 2.
Rubicon Gold & Silver Mining Company No. 3.
Rubicon Gold & Silver Mining Company No. 4.—Keys District, Mono county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Companies, held on the 18th day of April, 1864, an Assessment of ten cents per share was levied upon the capital stock of said Companies, payable immediately, in U. S. gold coin, to the Secretary, at the office of the Companies, No. 302 Montgomery street, San Francisco. Any stock upon which said Assessment shall remain unpaid on Saturday, the 21st day of May, 1861, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on FRIDAY, the 10th day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees,

J. P. VAN HAGAN, Secretary.

Office, Rooms 7 and 8, third floor, No. 302 Montgomery street, San Francisco. 17-4t

Queen of Antilles Consolidated Gold and Silver Mining and Tunnel Company, Lander county N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of March, 1864, an Assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable on the 9th day of April, 1864, in United States gold coin, to the Secretary at his office 528 Clay street, San Francisco, or to the Superintendent, H. Henderson, Austin, N. T. By order of the Board of Trustees.

G. B. LARRABEE, Secretary.

Office, 528 Clay street, San Francisco. 17-4t

Pearron Gold and Silver Mining Company, Lander County, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of March, 1864, an Assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable on the 9th of April, 1864, in United States gold coin to the Secretary at his office, 528 Clay street, San Francisco, or to the Superintendent, G. W. Leet, at Austin, Lander county, N. T. By order of the Board of Trustees.

G. B. LARRABEE, Secretary.

Office, 528 Clay street, San Francisco. 17-4t

NOTICE.

Is hereby given that from and after July 1st, 1864, the principal Office of the Savage Copper Mining Company Situated in Zine House District Nevada County, California—will be in Lincoln, Placer County, California. A. BATEMAN, Sec'y,

17-1m Lincoln, April 18, 1864.

A New and Valuable Book.

PROCESS OF SILVER AND GOLD EXTRACTION, BY GUIDO Kustel, Mining Engineer and Metallurgist, former manager of the Ophir Works, &c.; 350 pages octavo illustrated.

This admirable work has met with the highest commendations from the Press and Scientific men, as a clear and able exposition of the science as practised in California and Nevada Territory. It is written for the people in good plain English and finely illustrated.

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MINING AND SCIENTIFIC PRESS.—This is one of our most valuable exchanges. It comes to us filled with the most valuable articles, original and selected, upon the subject of mining, and we scissorize it to an awful extent. Every person engaged in mining to any extent, should be a subscriber to the PRESS.—*Gold Hill News.*

Sonoma Lodge Silver Mining Company, Reese River District, Nevada Territory.

Notice is hereby given, that on MONDAY, May 23d, 1864, at noon, there will be sold, at Auction, at the salesroom of Cobb & Sinton, No. 406 Montgomery street, San Francisco, a sufficient number of shares in the capital stock of the Sonoma Ledge Mining Company, standing in the names of the following persons, to pay the Assessment (No. 2) of fifty cents per share, levied September 3, 1863; the Assessment (No. 3) of one dollar per share, levied January 5, 1864; and the Assessment (No. 4) of one dollar per share, levied March 12, 1864, together with the expenses of advertising and sale, unless the same shall have been previously paid—viz:

Names.	Certifs.	Shares.	Amt.
Barnes, R.	1	25	$25
Baldwin, J. G., Jr.	74	8	8
Basler, George A.	147	5	5
Bennet, W. P.	151	4	4
Beunet, W. P.	152	3	3
Beunet, W. P.	153	3	3
Bennett, A. A.	126	8	8
Bennett, A. A.	132	10	10
Benuett, A. A.	133	10	10
Burnham, R. M.	9	8	8
Burnham, R. M.	104	20	20
Clark, John W.	112	7	14
Dwarakowsky, Count	67	10	10
Dwarakowsky, Count	68	10	10
Dwarakowsky, Count	69	10	10
Dumas, Charles	75	25	25
Dumas, Charles	99	25	25
Dreyfuss, Henry	16	13	13
Friedman, S.	83	9	9
Garber, John	143	15	15
Helmken, I.	73	3	6
Howell, John	134	50	50
James, John D.	22	8	8
James, John D.	49	20	20
Kiusey, Mrs. Belle	130	8	8
Mann, David	117	3	3
Miller, J. W.	81	5	10
Neyman, H. J.	31	10	10
Neyman, H. J.	32	10	10
Neyman, H. J.	33	5	5
Neyman, H. J.	71	10	10
Neyman, H. J.	72	6	6
Pringle, George C.	34	10	25
Smith, David	88	10	10
Smith, R. T.	94	10	10
Smith, R. T.	95	10	10
Smith, R. T.	96	10	10
Smith, R. T.	102	5	5
Smith, N. T.	154	5	5
Smith, N. T.	155	5	5
Smith, N. T.	156	5	5
Smith, N. T.	157	10	10
Toler, William P.	148	5	5
Wolf, Louis	43	36	36
Wolf, Louis	91	10	10
Wolf, Louis	122	11	11

By order of the Board of Trustees.

DAVID WILDER, Secretary.

17-5t No. 240 Montgomery street, San Francisco.

Keokuk Gold, Silver and Copper Mining Company, Office No. 322 Front Street, San Francisco, April 16, 1864.

Notice is hereby given, that in accordance with the laws of the State of California, and the by-laws of said company, and an order duly made by the Board of Trustees of the Keokuk Gold, Silver and Copper Mining Company, there will be sold at Public Auction, by Jerome Rice & Co., 327 Montgomery Street, San Francisco, on WEDNESDAY, May 25th, 1864, at 11 o'clock A. M., to the highest bidder for cash in United States gold coin, so many shares of the stock of said company, standing in the names of the following persons, or shareholders, as will be necessary for the payment of assessments duly levied thereon and still remaining due and unpaid, together with expenses of advertisement and all other expenses of sale, to wit:

Names.	No. Certif.	No. Shares.	Amt.
J. N. Peterson	383	20	$2 00
Paul Bunker	385	20	2 00
B. S. Hines	109	5	50
Wuthrich, John	111	10	1 00
W. A. White	138	10	1 00
S. D. Cary	391	100	10 00
H. Classen	178, 179	50	5 00
A. E. DuBois	182	5	50
A. Himmelman	186	30	3 00
H. H. Schafer	398	70	7 00
J. Leavett	217, 218	100	10 00
M. Butler (No. 2)	378	10	1 00
A. Dolet	457	20	2 00
Malcolm Fisher	456	13	1 30
Mrs. A. B. Harrisou	304	100	10 00
Ruth A. Taylor	311	10	1 00
Louisa Wise	193	10	1 00
E. C. Wetmore	196, 197	150	15 00
A. W. Stratton	59, 60	75	7 50
A. J. Bailey	69, 71, 72	150	15 00
A. M. Morgan	421	200	20 00
L. M. Morgan	420	200	20 00
F. L. Such	306	50	5 00
J. H. Littlefield	407, 408, 409	100	10 00
J. Alexander	458	70	7 00
H. Rothschild	358	5	50
D. J. Alexander	part 168	19	1 90
R. Brackett	359, 360, 363	50	5 00
G. S. Harmon	364, 365	100	10 00
Geo. F. Sharp	425	200	200
E. J. Baldwin	423	225	20 00
George Doan	part of 263 to 267	170	17 00
C. H. Rice, part of 98, 99, 100, 102, 104 & 5		97	9 70
G. W. Clark	381	50	5 00
C. Bruns	453	25	2 50
Miss C. Alison	257	50	5 00
E. D. Hayes	295, 296	10	1 00

By order of the Board of Trustees.

A. B. WINEGAR, Secretary.

17-4t No. 322 Front street, San Francisco.

Balazette Gold and Silver Mining Company, Lander County, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of March, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on the 9th day of April, 1864, in United States gold coin, to the Secretary at his office, 528 Clay street, San Francisco, or to the Superintendent, G. W. Leet, at Austin, Lander county, N. T. By order of the Board of Trustees.

G. B. LARRABEE, Secretary.

Office, 528 Clay street San Francisco. 17-4t

The MINING AND SCIENTIFIC PRESS comes to us enlarged to double its old dimensions, and otherwise improved. The PRESS is the only journal on this coast devoted exclusively to mining and scientific matters, and should be read by miners everywhere. It is published weekly, at $5 per year.—*Oroville Union.*

A. S. HALLIDIE & CO.,

WIRE ROPE MANUFACTURERS.

Established 1857.

Office, No. 412 Clay street—Works, North Beach, SAN FRANCISCO.

After seven years' use throughout the State of California and the Pacific Coast generally, we can confidently recommend Wire Rope for

HOISTING FROM DEEP MINES,
GUY ROPES FOR DERRICKS, &c.,
STANDING RIGGING FOR SHIPS,
FERRY ROPES FOR FERRIES,
SASH CORD FOR WINDOW SASHES,
ETC., ETC., ETC., ETC., ETC., ETC

It being Cheaper, Stronger, Lighter and More Durable than any other kind of Rope, and not stretching or shrinking by atmospheric changes.

MINING COMPANIES, by using it for Hoisting Purposes, save 66 per cent. on their outlay for other ropes.

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For fencing large parcels of land—permanently, economically and expeditiously. Manufactured in any length desired.

Pamphlets containing weight, strength and price, forwarded free application to the Manufacturers.

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We are prepared to erect, of any span and capacity, and take pleasure in referring those interested to the many structures of this kind built by us in California, Oregon and British Columbia, of span from 200 to 400 feet. 3-3m

MINERS' FOUNDRY
—AND—
MACHINE WORKS,

First street, between Howard and Folsom streets, SAN FRANCISCO.

EVERY DESCRIPTION OF IRON AND BRASS MACHINERY, the **Best** and **Most Economical**, manufactured in the State of California, will be furnished with dispatch at the Miners' Foundry and Machine Works, as:

Steam Engines and Boilers, Flour, Saw and Quartz mill machinery, Mining Pumps, Amalgamators, Retorts, Etc., Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections, designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities will be afforded ample facilities, free of cost.

All parties desiring accurate and highly finished drawings and Superior Machinery, at most reasonable rates are cordially invited to call before contracting elsewhere.

tf. HOWLAND, ANGEL & KING.

Vulcan Iron Works Company.

P. Torquet.....Manager.
Steam Engine Builders and Boiler Makers, Iron Founders and General Engineers,

PUMPING, HOISTING, MINING AND QUARTZ CRUSHING Machinery. Shoes and Dies of the hardest Iron. Russia Iron Punched Screens, Steamboat Machinery, Saw, Flour and Sugar Mills. High and Low Pressure Boilers of all styles. JONVAL and other Turbine Water Wheels with latest improvements.

tf No. 187 & 189 First Street San Francisco.

IMPROVED WATER-WHEEL,
—PATENTED BY—
John Tyler, West Lebanon, N. H.

GIVING THE MAXIMUM POWER WITH THE MINIMUN COST—HAVING THE FOLLOWING AS SOME OF ITS ADVANTAGES OVER OTHERS—GIVING THE BEST PER CENTAGE OF WATER USED, DURABILITY.

It runs Equally as well IN Back Water as OUT.

IT IS ADAPTED TO HIGH HEADS OR LOW—IT IS NOT LIABLE to get out of repair—It can be put to running by any Machinist in a very short time—It is the steadiest running and easiest regulated wheel in use—There are now some 500 of them in use in the United States and Canadas, running under all heads, from 4 to 80 feet, and giving universal satisfaction. Address

SMITH & HANSCOM,
15y8-3m Golden State Iron Works, San Francisco.

WHEELER'S
Amalgamating and Separating Pans

IT IS ACKNOWLEDGED BY ALL WHO HAVE EXAMINED THE principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.

The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metal arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the triturating, this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.

Where these Pans have been introduced and operated by the side of others on sands from the same vat, the Wheeler Pans have uniformly gained a large percentage of metals, over its competitors, as well as a still larger percentage in the amount of work performed.

***These Pans may be seen in daily operation at the Miners, Foundry, on First street, San Francisco, where all interested are invited to call and examine for themselves.

no16-tf ZENAS WHEELER.

To Quartz Miners.

ALL PERSONS INTERESTED IN MINING MACHINERY ARE invited to call at Donahue's Foundry and examine my improved Amalgamator. It is unquestionably superior to anything now known for amalgamating Silver and Gold. It works 1000 pounds at a time, and will amalgamate over three tons a day. By the motion of the revolving muller, the pulp is drawn through its centre and passes under it, between the grinding surfaces, to the circumference; from whence it passes again over the muller to the centre, through the holes and between the grinding surface to the circumference as before. Thus a constant circulation of the pulp is kept up, bringing the particles of ore again and again under the muller, and reducing the whole mass to an impalpable powder.

No quicksilver lies between the surfaces to be ground, but at the circumference and centre of the pan where the metal must pass through it as the pulp circulates.

A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S. Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.

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MINING NOTICES—APRIL 23d.

Meteor Gold & Silver Mining Company, Reese River District, Nevada Territory,

Pontiac Gold & Silver Mining Company, Reese River District, Nevada Territory,

Hyack Gold & Silver Mining Company, Reese River District, Nevada Territory.

Butler Gold & Silver Mining Company, Reese River District, Nevada Territory.

Enterprise Gold & Silver Mining Company, Reese River District, Nevada Territory.

Essex Gold and Silver Mining Company, Reese River, District, Nevada Territory.

Notice is hereby given, that, in accordance with the laws of the State of California, and in pursuance of orders made by the respective Boards of Trustees of the above named Companies, at meetings held on the 19th day of October, A. D. 1863, a sufficient number of shares of the capital stock of each of the above Companies, standing in the names of the following persons, will be sold at Public Auction, to the highest bidder, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, in the city and county of San Francisco, on WEDNESDAY, the 25th day of May, A. D. 1864, at 11 o'clock A. M. of that day, to pay Assessment No. 1, of each of them, of 20 cents per share, all levied on the 19th day of October, A. D. 1863, due and delinquent, together with all costs accruing from advertising sale, etc., if not previously paid.

METEOR GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
Daniel Liggett	20	$4 00
E A Isaacs	166⅔	33 35
Frank Snow	166⅔	33 35
John A Weaver	90⅔	19 35
John A Weaver	70	14 00
George W Leet	101⅔	20 3
W W Hartman	33⅓	6 67
W W Hartman	83⅓	16 67
R Smith	25	5 00
John Ellis	25	5 00
Hirnm Stuteville	25	5 00
Joseph Brookshaw	41⅔	8 26

PONTIAC GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
W H Springer	212½	$42 50
R D Northey	212½	42 50
J P Ellis	170	34 00
S Scott	170	34 00
T A Waterman	42½	8 50
W C Phillips	21¼	4 25
D E Waldron	21¼	4 25

HYACK GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
H B Hixon	110	$23 20
Geo S Hupp	25	5 00
J C Duffey	77½	15 50
E A Isaacs	92½	18 50
M J Ferrell	116	23 20
J J Rolf	155	31 00
Wm Rose	77½	15 50
W W Hartman	70	14 00

RUTLER GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
A C Laughlin	100	$20 00
J McDonough	10	2 00
J Beede	50	10 00

ENTERPRISE GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
A C Laughlin	06	$19 20
Ira W Dearborn	50	10 00
John McDonough	10	2 00
Robert McMillan	50	10 00
S S Greenewood	125	25 00

ESSEX GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
Joseph Davidson	25	$5 00
W W Hartman	31	6 20
Geo S Hupp	25	5 00
S McBrown	54⅜	10 88
Robert Smith	25	5 00
Hiram Stuteville	10	2 00
John Ellis	40⅝	8 12

D. B. FRANCIS, Secretary.
17-4t Office, 509 Clay street, San Francisco.

Nicolaus Gold and Silver Mining Company, Reese River District, N. T.

Scottish Chief Gold and Silver Mining Company, Reese River District, N. T.

Notice is hereby given, that in accordance with the laws of the State of California, and in pursuance of orders made by the respective Boards of Trustees of the above named companies, at meetings held on the nineteenth day of October, A. D. 1863, a sufficient number of shares of the capital stock of each of the above companies standing in the names of the following persons will be sold at Public Auction to the highest bidder, at the salesroom of Jerome Rice & Co., No. 327 Montgomery Street, in the City and County of San Francisco, on WEDNESDAY, the 25th day of May, A. D. 1864, at eleven o'clock A. M. of that day, to pay assessment No. 1 of each of them of ten cents per share, all levied on the 19th day of October, A. D. 1863, due and delinquent, together with all costs accruing from advertising sale, etc, if not previously paid:

NICOLAUS GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
W C Phillips	10	$1 00
E Hamel	37½	3 75
B Toland	30½	3 75
W W Cole	150	15 00
M G Lee	165	16 50

SCOTTISH CHIEF CONSOLIDATED TUNNEL AND MINING COMPANY.

Names.	Shares.	Amount.
J M Crump	25	$2 50
J W Davidson	25	2 50
S McBrown	157 3-11	15 75
E A Isaacs	163 7-11	16 40
W W Hartman	71 7-11	7 20
Daniel Liggett	27 3-11	2 75

D. B. FRANCIS, Secretary.
17-4t Office, 509 Clay street, San Francisco.

We have received the first number of the eighth volume of this interesting paper. It is now under the control of friend Dewey, and has been enlarged to sixteen pages. We commend it to miners, stock dealers, and others taking an interest in the development of the m'-l lands of this State. It can be had for $5 a year, and if preserved will make two volumes of interesting matter, containing 416 pages each.—*Red Bluff Independent*

Samantha Consolidated Gold & Silver Mining Company, Reese River District, N. T.

Lewis Consolidated Gold & Silver Mining Company, Reese River District, N. T.

Memphis Gold & Silver Mining Company, Reese River District, N. T.

John J. Crittenden Gold & Silver Mining Company, Reese River District, N. T.

Grafton Gold & Silver Mining Company, Reese River District, N. T.

Tehama Gold & Silver Mining Company, Reese River District, N. T.

Notice is hereby given, that, in accordance with the laws of the State of California, and in pursuance of orders made by the respective Boards of Trustees of the above named Companies, at meetings held on the 19th day or October, A. D. 1863, a sufficient number of shares of the capital stock of each of the above Companies, standing in the names of the following persons, will be sold at Public Auction, to the highest bidder, at the salesroom of Jerome Rice & Company, Number 327 Montgomery street, in the city and county of San Francisco, on WEDNESDAY, the 25th day of May, A. D. 1864, at 11 o'clock A. M. of that day, to pay Assessment No. 1 of each of them, of twenty-five cents per share all levied on the 19th day of October, A. D. 1863, due and delinquent, together with all costs accruing from advertising, sale, tc., if no, previously paid.

SAMANTHA CONSOLIDATED GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount5
Geo S Croft	25	$6 20
Geo S Hupp	20	5 05
J W Wilson	25	6 20
John Ridgway	50	12 50
Alphens Bull	400	100 05
Wm R Young	25	6 20
Geo W Leet	450	112 50
M Liggett	300	75 00
J M McCloud	150	37 50
Wm Coverdill	114	28 50
J S Currie	360	00 00
E A Isaacs	350	87 50
W L Buchtal	50	12 50
Wm Ellis	10	2 50
John Gerber	10	2 50
W W Hartman	40	10 00
W W Hartman	145	41 25
J McCabe	10	2 50

LEWIS CONSOLIDATED.

Names.	Shares.	Amount.
John Hill	50	$12 50
S McBrown	35	8 75
W W Hartman	175	43 75
John A Weaver	400	100 00
W W Hartman	96	24 00
R Smith	33	8 25
R Hutchins	25	6 25

MEMPHIS GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
B B Cathrne	50	$12 50
Joseph W Davidson	25	6 25
Wm Coverdill	20	5 00
Charles Sharp	20 10-12	5 20
Henry Easter	20 10 12	5 20
S McBrown	129 2-12	32 30
Geo W Leet	23⅓	5 83
J M Crump	166⅔	41 67
Frank Snow	166⅔	41 67
J A Weaver	166⅔	41 67
J McBrown	129 2-12	32 30

JOHN J. CRITTENDEN GOLD AND SILVER MINING CO.

Names.	Shares.	Amonot.
Frank Snow	85	$21 25
W W Hartman	2	50
John Huchins	10	2 60
C Nixon	25	6 25

GRAFTON GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amonnt.
S Redfield	5	$1 25
J P Lee	125	31 25
S W Lee	150	37 50
W W Cole	90	22 50
John Nickerson	10	2 50

TEHAMA GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
E A Titus	150	$37 50
M G Lee	140	35 00
G D Frazee	150	37 50

D. B. FRANCIS, Secretary.
17-4t Office, 509 Clay street, San Francisco.

Sonoma County Gold, Silver and Copper Mining Company, Cloverdale District, Sonoma county, California.

NOTICE.—There are delinquent, upon the following described stock, on account of Assessment levied on the 15th day of January, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amt.
W. S. Pearson		100	$10 00
G. P. Swift	75, 76, 77, 78, 79, 80, 81, 82	208	20 80
E. Swift (4th & 5th asst)	11, 61, 62, 63, 89	221	44 20
H. A. Thomas (4th and 5th asst)	55	8	1 60
H. T. Graves (4th and 5th asst)	9	10	2 00

And in accordance with law, and an order of the Board of Trustees, made on the 14th day of April, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Jerome Rice & Co., on the 16th day of May, 1864, at the hour of 11 o'clock A. M. of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

A. B. GRAVES, Secretary.
17-4t Office, 412 Clay street, San Francisco, Cal.

Whitton Gold and Silver Mining Company, Silver Mountain, Alpine county, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 20th day of April, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable immediately to the Secretary, J. Warren Clark, 430 Montgomery street, San Francisco, (Room No. 5, 3d floor) or to S. A. Bartlett, Treasurer, Silver Mountain.

Any stock upon which said Assessment shall remain unpaid on the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 9th day of June, 1864, to pay the delinquent Assessment, together with the costs of Advertising and expenses of sale. By order of the Board of Trustees.

J. WARREN CLARK, Secretary.
Office, 430 Montgomery street, San Francisco. 17

Rubicon Gold & Silver Mining Company No. 1.—Location of mine, Keys District, Owens River, Mono county, California.

Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Rubicon Gold and Silver Mining Company No. 1, there will be sold, at Public Auction, to the highest bidder, for cash, in United States gold coin, on the 24th day of May, 1864, at 11 o'clock A. M. of that day, at the office of the Company, No. 7 and 8, third floor, No. 302 Montgomery street, San Francisco, so many shares of the capital stock of the Company standing in the names of the following persons, or shareholders, as will be necessary for the payment of Assessment No. 4, of ten (10) cents per share, duly levied thereon February 27th, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said assessment and accruing charges are previously paid.

Names.	No. Asst.	Certif.	Shares.	Due.
Adam Bland	4	no cer	180	balonce, $11 25
Henry Bush	4	no cer	180	18 00
Sarah Cook	4	42	25	bolanco, 1 56
Sarah Cook	4	no cer	155	bolance, 9 68
W. P. Carter	4	no cer	90	9 00
W. G. Davis	4	535	55	5 50
W. G. Davis	4	646	25	2 50
W. G. Davis	4	647	25	2 50
W. G. Davis	4	648	25	2 50
W. G. Davis	4	649	25	2 50
W. G. Davis	4	650	25	2 50
W. G. Davis	4	653	25	2 50
W. G. Davis	4	738	14	1 40
W. G. Davis	4	no cer	150	15 00
Pallo Dond	4	638	10	balance, 62
Philo Dond	4	639	10	bolance, 62
Pallo Dond	4	no cer	160	bolance, 10 00
Wesley Diggiugs	4	no cer	1800	180 00
A. M. Genung	4	no cer	180	balance, 11 25
Rienzi Hughes	4	98	10	balance, 62
Rienzi Hughes	4	99	10	bolonce, 62
Rienzi Hughes	4	101	10	bolance, 62
Rienzi Hughes	4	104	5	balance, 31
Rienzi Hughes	4	106	5	balance, 31
John Jeffress	4	244	15	balance, 94
John Jeffress	4	274	7	balance, 44
John Jeffress	4	275	7	balance, 44
John Jeffress	4	276	14	balance, 88
John Jeffress	4	no cer	116	balance, 7 25
John Kneedler	4	278	14	balance, 88
John Kneedler	4	270	50	balance, 3 13
John Kneedler	4	382	6	balance, 38
John Kneedler	4	no cer	85	balance, 5 31
M. H. Kimball	4	no cer	90	9 00
A. J. Lovejoy	4	75	25	1 50
A. J. Lovejoy	4	296	132	85
Levi C. Lane	4	21	100	bolance, 6 25
Levi C. Lane	4	22	25	balance, 1 56
D. H. Mitchell	4	1	125	balance, 11 56
D. H. Mitchell	4	355	30	balance, 37
D. H. Mitchell	4	487	10	balance, 93
D. H Mitchell	4	491	14	balance, 1 30
D. H. Mitchell	4	492	10	balance, 93
E. H. Mitchell	4	597	25	balance, 2 31
D. H. Mitchell	4	598	25	balance, 2 31
D. H. Mitchell	4	599	25	balance, 2 31
D. H. Mitchell	4	600	25	balance, 2 31
D. H. Mitchell	4	601	25	balance, 2 31
D. H. Mitchell	4	602	25	balance, 2 31
D. H. Mitchell	4	603	25	balance, 2 31
D. H. Mitchell	4	604	25	balance, 2 31
D. H. Mitchell	4	605	14	balance, 1 30
D. H. Mitchell	4	606	14	balance, 1 30
D. H. Mitchell	4	607	14	balance, 1 30
D. H. Mitchell	4	608	14	balance, 1 30
D. H. Mitchell	4	609	14	balance, 1 50
D. H. Mitchell	4	611	11	balance, 1 02
D. H. Mitchell	4	656	30	balance, 2 78
D. H. Mitchell	4	657	30	balance, 2 78
D. H. Mitchell	4	658	30	balance, 2 78
W. J. Martin	4	no cer	180	18 00
J. W. Myrick	4	no cer	180	18 00
M. M. Miller	4	627	180	18 00
Jas. O'Connell	4	289	9	balance, 56
Jas. O'Connell	4	290	50	balance, 3 13
Jas. O'Connell	4	291	50	balance, 3 15
Jas. O'Connell	4	292	25	balance, 1 56
Jas. O'Connell	4	293	25	balance, 1 56
Jas. O'Connell	4	294	21	balance, 1 31
Thos. H. Porter	4	188	12	balance, 75
Thos. H. Porter	4	no cer	126	balance, 7 88
John Reynolds	4	no cer	540	54 00
I. Richards	4	460	90	balance, 4 72
Wm. Smith	4	228	30	balance, 1 88
Wm. Smith	4	229	25	balance, 1 50
Wm Smith	4	230	25	balance, 1 56
Wm. Smith	4	231	25	balance, 1 50
Wm. Smith	4	232	25	balance, 1 56
Wm. Smith	4	233	25	balance, 1 50
Wm Smith	4	234	25	balance, 1 56
O. W. Spencer	4	662	50	5 00
O. W. Spencer	4	674	21	2 10
O. W. Spencer	4	no cer	1654	165 40
F. Shoemaker	4	no cer	90	9 00
Jos. Ware	4	715	14	balonce, 88
Jos. Ware	4	714	14	balance, 88
Jos. Ware	4	no cer	190	balance, 11 88

By order of the Board of Trustees.

J. P. VAN HAGEN, Secretary,
Office, No. 302 Montgomery street, No. 7 and 8, 3d floor.
San Francisco, April 22, 1864. 17-4t

Dane Gold and Silver Mining Company, Esmeralda District, Nevada Territory.

Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the above named Company, at a meeting held at the office of the Company, on the 18th day of April, 1864, there will be sold at Public Auction, at the office of said Company, No. 224 Montgomery street, San Francisco, on the 25th day of May, A. D. 1864, at 12 o'clock M., to the highest bidder, for cash, in U. S. gold coin, so many shares of the capital stock of said Company, standing in the names of the following persons, as will be necessary for the payment of Assessment No. 4, of fifty cents per share, duly levied thereon by the Board of Trustees, on the 8th day of March, A. D. 1864, together with cost of advertising and expenses of sale, unless said assessment and charges are sooner paid.

Name.	No. certs.	No. shs.	Amt.
James H. Deering	23	75	$37 50
Jesse Richardson	3	10	5 00
M. L. Citron	25	10	5 00
P. J. Barber	41	10	5 00
Adam Ross	44	10	5 00
Mrs. H. C. Bull	47	5	2 50
W. H. Forbes	58	10	5 00
W. H. Harnden	71	10	5 00
Larkin Smith	74, 75	45	22 50

By order of the Board of Trustees.

17-3t WM. T. ATWOOD, Secretary.

MINING NOTICES—APRIL 16th.

Sierra Consolidated Gold and Silver Mining Company, Sierra county, Cal.—Office 302 Montgomery street, San Francisco.—NOTICE.—There are delinquent, upon the following described stock, on account of assessment levied on the 29th day of February, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	Shares.	Am't.
Garrett Hopper,	448, 923, 924	35	$17 50
K C Eldridge,	535, 538, 534, 536, 537	700	350
Harry Eldridge,	595	700	350
J W Jones,	477	5	2 50
Julius Thierbach,	479	10	5
P M Govern,	485, 480, 487, 721, 722, 733, 803, 889. 931, 937	930	465 00
Merrit Welton,	492	25	12 50
E Rondel,	493	5	2 50
J Marie Jonrne	488, 980	50	25
Daniel Frink,	494	20	10
E F Burdick,	497, 499, 610, 611, 984	37	18 50
Wm M Newhall,	510, 518	20	10 00
H Adolphus,	520	10	5
J Beeur Martin,	596	15	7 50
W J Tilley	603	25	12 50
Mrs J R Tobias	670	10	5
T L Bibbins,	458, 462, 464	80	40
S T Walsh,	221, 222, 223, 970	50	25
Jno Ryan	229	20	10
F T Eisen,	265	350	175
Wm Bohm	339, 340, 341	20	10
Bishop Sheldon,	726, 727, 728, 729	314	157
D A McDonald	83, 84, 85	86	43
John P Sheldon,	235	10	5
Jno Harding,	251, 694	40	20
F R Baby,	188, 189, 190, 191, 1054, 1055	300	150
J F Eddy,	part of 200	16	8 00
Henry Michaels,	266	5	2 50
Chas E Murray,	269	5	2 50
Mrs Annetta M Dean,	272	25	12 50
Benjamin Dean,	278, 868	75	37 50
Mary Eisler,	261, 844	20	10
A A Susenbeth,	262, 843	40	20
Marie Garategny,	242	20	10
Placide Sevolle,	345	5	2 50
Q A Chase,	309	100	50
Timothy Canty,	675	1	50
P C Fogarty,	816	10	5
Jas McElroy,	702, 893	30	15
James Neary,	395, 421. 424, 402	41	20 50
Thos W Leggett,	883, 951, 953, 973	50	25
Mrs Mary Murry,	900, 938	38	19
Mrs Johaanah Murphy	903	40	20
Geo W Osborne	905	10	5
James McCabe	912, 911	40	20
Mark W Higgins,	913, 914, 915, 916	260	130
Thos J Owens,	977	10	5
Julia Martin,	982	10	5
Wm Corcoran,	979, 1050	40	20
J L Janes,	989	5	2 50
Laura A Taylor,	992	140	70
H A Chase	1010	5	2 50
Douald McDonald,	998	10	5
Eliza A Delgado,	1003	5	2 50
James L Burns,	1043	5	2 50
A P Williams,	1041	10	5
Thomas Kelly,	1051	10	5
John Halpin,	1048, 1049	20	10
Mrs Dorcas Taylor,	837, 1036 1064	228	114
John Cunningham	527	10	5 00
Michael O'Neil	230	20	10 00
Arthur K Hawkins	1, 2, 3, 4, 5, 6, 7,	700	350 00
James Hawkins	10, 12, 15, 763	179	89 50
Timothy Shields	158, 160, 161, 762, 761, 760, 165. 164, 162	213	106 50
Thos O'Neil	604	5	2 50
Edward Pearson,	balance due on 719, 817	140	55 00
Q S Hagberg	183, 185, 186, 1059, 1060	100	50 00
Ed Jelliugs	1040	15	7 50
J C Stokes	18	25	12 50
John Todd	856	50	25 00
Mary A Stokes	30	30	15 00
F R Lewis	66, 114, 115, 116, 978	135	67 50
W C Stokes	42, 43, 44, 45, 46, 48, 49, 51, 56, 58, 59, 983, 990	193	96 50
James G Shaw	90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 101, 106, 107, 108, 109, 110, 111, 112, 113, 609	225	112 50
Georga Fisen	264	175	87 50
Frederick P. Green	709, 710, 769	80	40 00
E A Pearson	718	5	2 50
Wm Pearson	613	5	2 50
Madame Lechard	759	5	2 50
James Linen	755, 756,757, 758, 890	230	115 00
L McNally	764	30	15
E R Stewart	766	10	5
E T Peck	707, 778	30	15
J P Thomas	777	20	10
Victor Hoffman	779	20	10
Johanna Crowley	782	20	10
Frederick Goodell	819	20	10
Malachy Naghton	808, 809, 810	500	250
O Halloraa	989	2	1
Moynehan & Aitkin	793	25	12 50
Isaac Lowenstein	806	10	5
Frank McGlynn	861, 862	30	15
John Donelly	863	10	5
C Canniffe	857	5	2 50
E. B. M. Manus	866	5	2 50
C P Williams	867	50	25
John Dow	876	0	3
James M Shackey	891	20	10
Mrs Eliza Lake	894	5	2 50
Eleander Heath	901, 907, 908, 953, 909, 910, 963, 965	242	121
James Brereton	929	10	5
Geo H Hopps	962	50	25
Philip Conway	967	15	7 50
Samuel Drugan	968	15	7 50
H H Bryns	969	10	5
John A Wright	972	10	5
Edward Durkin	974	1000	500
A M Gilman	1066	10	5
S W Cory	1105, 1114, 1120, 1121, 450	125	62 50

And in accordance with law, and an order of the Board of Trustees, made on the 6th day of April, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the sales-room of John Middleton & Son, No. 400 Montgomery street, on the 16th day of May, 1864, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

T. L. BIBBINS, Secretary *pro tem.*

Office, 302 Montgomery street, San Francisco, Cal.

San Francisco, April 16th, 1864. 16-4t

Before Cutting the Leaves of this journal, stitch each No. through the back, or fasten with a large pin, and you will have a paper in the most convenient form possible for reading or reference

Billett Gold and Silver Mining Company—Office, 509 Clay street, San Francisco, California, April 16th, 1864.—Whereas the Board of Trustees of the Billett Gold and Silver Mining Company, at a meeting duly called and held on the 5th day of March, A. D. 1864, directed, by vote, that an assessment of twelve and one-half (12½) cents per share be, and the same was thereby levied and assessed, on each and every share of the capital stock of the said Billett Gold and Silver Mining Company, payable immediately, in gold and silver coin of the United States, and that the Secretary of the said Billett Gold and Silver Mining Company sell the delinquent stock, first advertising the same for thirty (30) days, according to law, after causing notice of said assessment to be published according to law and the by-laws of the said Company; and whereas notice of said assessment has been published according to law and the order aforesaid, and the following named shareholders have made default in the payment of said assessment in the number of shares held by them, and set against their names respectively, as follows—to wit:

	Shares.	Amount.
A. Bryant	149	$18 63
Levi Lee	30	3 75
James Lefferts	5	62
M R Miller	20	2 50
A T Nesbitt	10	1 25
James Billett	217	27 13
C A Moore	278	34 75
Josiah Buttorfield	262	32 75
O H Hong	20	2 50
W H White	42	5 25
J J Parker	5	63
W B Emerson	85	10 62
C Sherman	260	32 50
Levi Edwards	25	3 13
T G Cockrill	4	50
Mary A Fitch	5	63
James W Beavers	50	6 25
F J Beaumont	354	44 25
W H White	50	6 25
E J Crow	10	1 25
Lizzie Nichols	12	1 50
Thomas J Isbell	50	6 25
Isaac N Crosby	50	5 25
C M Beebe	25	3 13
James Hamilton	82	10 25
John H Fowler	12	1 50
Whitehead Fowler	10	1 25
B F Nickerson	188	23 50

Now therefore, under and in pursuance of law and the order aforesaid, notice is hereby given, that so many of the shares standing in the names of the persons above mentioned respectively, as will be necessary for the payment of the assessment aforesaid, together with the expenses of advertising and other expenses of the sale, will be sold, according to law and the by-laws of the said Billet Gold and Silver Mining Company, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, in the city and county of San Francisco, California, on WEDNESDAY, the 25th day of May, A. D. 1864, at 11 o'clock A. M. of that day, unless said assessments, with accruing charges, are previously paid. By order of the Board of Trustees. (16-4t) D. B. FRANCIS, Secretary.

Mechanics Gold, Silver and Copper Mining Company's Office No. 322 Front street, San Francisco, April 16, 1864. Notice is hereby given, that in accordance with the laws of the State of California, and the by-laws of said Company, and an order duly made by the Board of Trustees of the Mechanics Gold, Silver and Copper Mining Company, there will be sold at Public Auction, by Jerome Rice & Co., 327 Montgomery street, San Francisco, on WEDNESDAY, May 18th, 1864, at 11 o'clock A. M., to the highest bidder, for cash, in United States gold coin, so many shares of the stock of said Company, standing in the names of the following persons, or shareholders, as will be necessary for the payment of as sessment No. 4, duly levied thereon, and still remaining due and unpaid, together with expenses of advertisement and all other expenses of sale, to wit:

Names.	No. Cert.	No. Shares.	Amount.
Fanny Mott	167	10	$0 50
A Schwartz	—	10	50
H. D Wetemore	277	10	50
Geo Talt	196	10	50
A A Sanford	428	10	50
F Gobhardt	235	5	25
R G Francis	263	2	10
J W Bell	part of 258	5	25
J Smith	" 242	1	5
J S Beardsley	" 29	5	25
Loring Robertson	" 313	8	40
J P Sheldon	" 115	5	25
H Wasscls	213	5	25
W McCranoy	232	15	75
E Swift	257	5	25
John Raveks	206	10	50
C Schreiber	292 to 295, 322,	323	95	4 75
Fred Carsen	343	5	25
C Scheper	310	5	25
Mrs M Jillard	361	25	1 25
Mrs E G Cutter	5	5	25
G Obenauer	337	5	25
A F Omey	345	10	50
E Stration	109 to 111, 113,	114	130	6 50
Chas Rhine	392	100	5 00
J H Turney	126	200	10 00
W B Marshall	305	40	2 00
A W Stratton	350, 351	200	10 00
Mrs M A Crosley	420	20	1 00
Geo Curry	138	25	1 25
J F Smith	228, 229	100	5 00
A H Stewart	152, 302	75	3 75
Lewis Connor	273, 279	100	5 00
C E Wetmore	part of —	10	50
S D Cary	4, 312	35	5 25
Mary Murphy	147	20	1 00
Silas Fuller	106, 107	50	2 50

By order of the Board of Trustees.

A. B. WINEGAR, Secretary.

16-4t No. 322 Front street, San Francisco.

Enterprise Tunnel & Mining Company, Reese River Mining District, Lander county, N. T.—NOTICE.—There is delinquent upon the following described stock in the above named Company, on account of assessment levied on the 23d day of October, 1863, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	Certificates.	Shares.	Amt.
Chas. Smith,	Nos. 81, 82, 83, 84	100	$25 00
A. Heidenheimer,	Nos. 86, 87	50	12 50
Otto Kapuz,	Nos. 55, 56, 57, 58, 59	50	12 50
S. Kezzel,	Nos. 92, 93, 94, 95	100	25 00
W. Blum,	Nos. 96, 97	50	12 50
Daniel Fonly,	Nos. 98, 99	50	12 50
G. Schmidtbury,	No. 39	10	2 50
A. Lamb,	No. 38	15	3 75
C. W. Skinner,	Nos. 108, 109	100	25 00

And in accordance with law, and an order made by the Board of Trustees on the 12th instant, so many shares of each parcel of said stock as may be necessary will be sold, at the office of the Company, in the city of San Francisco, at 12 o'clock M., on SATURDAY, the 14th day of May, 1864, to pay said delinquent assessments thereon, together with costs of advertising and expenses of sale.

J. F. STIRLING, Secretary,

No. 502 Montgomery street, Room No. 1, 3d floor.

San Francisco, April 16, 1864. 16-td

Mount Zion Gold, Silver and Copper Mining Company, Clayton District, Contra Costa county, Cal.

Whereas, the Board of Trustees of the Mt. Zion Gold, Silver and Copper Mining Company did, on the 5th day of March, 1864, levy an assessment (No. 11) of twenty-five cents upon each and every share of the capital stock of said Company, legal notice of which assessment has been given to the Stockholders thereof; and whereas, the said Board of Trustees did, on the 5th day of April inst., declare delinquent all of said assessment then remaining unpaid, and order the same advertised for sale, in accordance with the laws of the State and the by-laws of the Company; therefore, notice is hereby given, that there will be sold, at the office of the Secretary, No. 240 Montgomery street, on MONDAY, the 16th day of May, 1864, at 12 o'clock M., a sufficient number of the shares of the capital stock of said Company, standing in the names of the following Shareholders respectively, to pay the said assessment, together with the costs of advertising and sale of the same, unless said assessments and costs of advertising shall have been sooner paid, to wit:

Name.	No. Cert.	No. Shares.	Amt. Due.
Paul Shirley	160	100	$25 05
Paul Shirley	161	25	6 20
Paul Shirley	162	25	6 25
Paul Shirley	163	25	6 25
Paul Shirley	164	25	6 25
T B Storer	186	50	12 50
T B Storer	187	50	12 50
T B Storer	188	25	6 25
T B Storer	189	25	6 25
T B Storer	190	20	5 00
T B Storer	191	20	5 00
S Barrow	72	20	6 20
S Barrow	73	20	6 20
S Barrow	75	20	5 20
S Barrow	76	20	5 20
S Barrow	138	5	1 55
R Hall	122	10	2 50
R Hall	123	5	1 25
R Hall	130	15	3 75
R Hall	237	20	5 00
R Hall	257	100	25 00
R Hall	260	50	12 50
R Hall	274	25	6 25
R Hall	281	10	2 50
R Hall	282	10	2 50
R Hall	283	15	3 75
R Hall	315	2	50
F P Green	44	25	6 25
F P Green	45	25	6 25
F P Green	77	25	6 25
F P Green	112	25	6 25
P M Bowen	15	10	2 50
P M Bowen	16	10	2 50
P M Bowen	17	10	2 50
P M Bowen	18	10	2 50
P M Bowen	19	10	2 50
James Cyrus	37	25	6 25
James Cyrus, tenth assessment	37	25	5 00
H H Byrne	127	25	6 25
H H Byrne	128	25	6 25
J J Haley	272	186	46 50
E J Blanding	142	200	50 00
R H Blanding	209	200	50 00
J F Williams	104	25	6 25
E H Baxter	180	10	2 50

16tf A. G. WOOD, Sec'y.

Laurel Hill Mining Company, of Tuolumne County, California.

Notice is hereby given, that there is delinquent upon the following described stock, on account of assesment levied on the 13th day of February last, and assessments levied previously thereto, the several amounts set opposite the names of the respective Shareholders, as follows:

Names.	No. cert.	No. Shares.	Amt. due.
M Thayer	34	25	$12 50
M Thayer	59	25	12 50
M Thayer	64	25	12 50
M Thayer	65	20	10 00
M Thayer	72	5	2 50
Geo Wheeler	76	25	12 50
Geo Wheeler	77	25	12 50
C S Higgins	133	25	12 50
C S Higgins	134	25	12 50
C S Higgins	189	25	12 50
C S Higgins	190	25	12 50
W Bosworth	76	25	12 50
W Bosworth	77	25	12 50
J J Larue	169	10	5 00
J J Larue	222	20	10 00
J J Larue	223	20	10 00
E A Rawe, three assessments	154	5	7 50
F E Webster	171	25	12 50
F E Webster	183	5	2 50
A G Turner	138	50	25 00
A G Turner	241	50	25 00
J H Webster	172	50	25 00
J H Webster	264	25	12 50
T H Goodman	57	25	12 50
E Dubedat	73	5	2 50
F Wolf	89	10	5 00
M Weil	127	5	2 50
P B Cornwall	142	5	2 50
J Hamblin, three assessments	153	20	30 00
J A Rawson	214	20	10 00
F W Gross	245	5	2 50
F W Gross	246	5	2 50
F W Gross	247	5	2 50
F W Gross	248	5	2 50
F W Gross	249	5	2 50
F W Gross	250	5	2 50
F W Gross	251	2	1 00

And in accordance with law, and an order of the Board of Trustees, made on the 13th inst., so many shares of each parcel of said stock as may be necessary will be sold by Jerome Rice & Co., public auctioneers, at their salesroom, No. 327 Montgomery street, San Francisco, on WEDNESDAY the 18th day of May next, at 11 o'clock A. M., to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

JOHN B. RUSSELL, Secretary.

15 Office 430 Jackson street, San Francisco.

Pride of Nevada Mining Company, Reese River Mining District, Nevada Territory.—Notice is hereby given, that, in accordance with the laws of the State of California and the by-laws of the Pride of Nevada Mining Company, there will be sold, at Public Auction, to the highest bidder, at the auction rooms of John Middleton & Son, No. 400 Montgomery street, San Francisco, on WEDNESDAY, May 18th, 1864, at 12 o'clock M., so many shares of the capital stock of said Company, standing in the names of the following persons, as will be necessary for the payment of the delinquent assessment due thereon, together with the expense of advertisement and the other expenses of the sale—to wit:

Names.	Shares.	Amt. due.
Charles S. Eaton,	64	$32
S. C. Blake (J. Lippman),	64	32
S. Goldstein,	64	32
George W. Chapin,	64	32
Joseph Lippman,	64	32
J. Robinson,	64	balance, 12
J. D. Enas,	64	balance, 12
Isaac Lippman,	64	balance, 12
A. W. Rice,	64	balance, 12
Joseph Pigel,	64	balance, 12
William Stringer,	64	balance, 12
T. Prichard,	64	balance, 12
P. S. Hunter.	64	balance, 12

By order of the Board of Trustees. H. B. CONGDON, Sec'y.

16-4t 620 Washington street, Room 3.

Two Good Canvassing Agents can find profitable employment by calling at this office. None but active and competent men need apply.

Burgess Silver Mining, Company Reese River District, Nevada Territory.

Belle Creole Silver Mining Company, Reese River District, Nevada Territory.

Olive Branch Silver Mining Company, Reese River District, Nevada Territory.

Swift Silver Mining Company, Reese River District, Nevada Territory.

Paul Silver Mining Company, Reese River District, Nevada Territory.

Notice is hereby given, that in accordance with the laws of the State of California, and in pursuance of orders made by the respective Boards of Trustees of the above named Companies, at meetings held on the 1st day of April, A. D. 1864, a sufficient number of shares of the capital stock of each of the above named Companies standing in the names of the following persons will be sold at Public Auction, to the highest bidder, at the office of those Companies, No. 221 Montgomery street, San Francisco, on the fifth day of May, A. D. 1864, at 11 o'clock A. M., as will pay Assessment No. 1, of each of them, of twenty-five cents, all levied on the 23d of November, A. D. 1863, and Assessment No. 2, of each of them, of one dollar all levied on the 26th day of February, A. D. 1864, due and delinquent thereon, together with all costs accruing from advertising, sale, etc, if not previously paid:

BURGESS COMPANY.

Name.	No. Certs.	No. Shares.	Asst. No. 1.	Asst. No. 2.	Total
Sarah A. Bull	4	25		$25 00	$25 00
S. H. Pierce	5	10	2 50	10 00	12 50
George Swift	2 and 3	15	3 75	15 00	18 75
H. Burgess	12	173	43 25	173 00	216 25
F. B. Dole	22	187		187 00	187 00
Rus. Cazalis	20 and 21	75		75 00	75 00
Belinda Fowler	1	10	2 50	10 00	12 50
J. F. Michel	7	10	2 50	10 00	12 50

SWIFT COMPANY.

George Swift	3, 4 and 33	No. 1—81 / No. 2—31	20 25	31 00	51 25
James Fitton	32	86	21 50	86 00	107 50
H. Burgess	31	86	21 50	86 00	107 50
C. D. Caven	7	23	5 75	23 00	28 75
Robert E. Lowery	22, 23, 24, 25	No. 1—6 / No. 2—56	1 50	86 00	87 50
John Croyland	26, 27, 28, 29	43	10 75	43 00	53 75
Belinda Fowler	1	10		10 00	10 00
O. H. Kellogg	6	10		10 00	10 00
J. F. Michel	8	10		10 00	10 00
Chas. McConnell	2	10		10 00	10 00
W. W. Tinker	5	10		10 00	10 00
E. Ernest	9, 10, 11, 12, 13 / 14, 15, 16, 17, 18	86		86 00	86 00
D. Deeth	30	5		5 00	5 00

BELLE CREOLE COMPANY.

R. E. Lowery	13, 14, 15, 16, 17 / 18, 19, 20, 21	161		161 25	161 25
Chas. D Caven	8	84	21 00	84 00	105 00
John Croyland	22, 23, 24, 25	175	43 75	175 00	218 75
S. A. Murdock	28	175	43 75	175 00	218 75
T. O. Jackson	29	88	22 00	88 00	110 00
Geo. Swift	3, 4 and 27	No. 1—82 / No. 2—17	20 50	47 00	67 50
Sarah A. Bull	5	25		25 00	25 00
Octavia W. Pray	1	5		5 00	5 00
J. N. Traverse	2	10		10 00	10 00
C. W. Kellogg	6	10		10 00	10 00
J. F. Michel	9	10		10 00	10 00
D. Deeth	26	5		5 00	5 00

OLIVE BRANCH COMPANY.

Chas. D. Caven	9	83	20 75	83 00	103 75
Robert E. Lowery	14, 15, 16, 17	No. 1—65 / No. 2—85	16 25	85 00	101 25
J. P. Tiernan	20	85	21 25	85 00	106 25
S. A. Murdock	21	85	21 25	85 00	106 25
George Swift	4, 5 and 19	No. 1—80 / No. 2—30	20 00	30 00	50 00
C. E. Blake	1	10		10 00	10 00
Chas. McConnell	2	10		10 00	10 00
W. W. Tinker	3	10		10 00	10 00
Chas. McHenry	7	10		10 00	10 00
Sarah A. Bull	6	25		25 00	25 00
J. F. Michel	10	10		10 00	10 00
D. Deeth	18	5		5 00	5 00

PAUL COMPANY.

John Croyland	12, 13, 14, 15	174	43 50	174 00	217 50
S. A. Murdock	17	22	5 50	22 00	27 50
C. D. Caven	7	68	17 00	68 00	85 00
George Swift	2, 3, 18	No. 1—164 / No. 2—139	42 25	139 00	181 35
H. Burgess	19	174	43 50	174 00	217 50
Sarah A. Bull	4	25		25 00	25 00
C. E. Blake	1	10		10 00	10 00
Thos. Ladlam	5	10		10 00	10 00
J. F. Michel	8	10		10 00	10 00
D. Deeth	16	5		5 00	5 00

By order of the Boards of Trustees.

15-5t WM. T. ATWOOD, Secretary.

Cloverdale Mining Company, Sonoma County, California—Office, 430 Montgomery street, San Francisco.—Notice is hereby given, that in accordance with the laws of the State of California, the by-laws of the Company, and an order duly made by the Board of Trustees of the Cloverdale Mining Company, on the 31st of March, 1864, there will be sold at Public Auction, to the highest bidder for cash, in United States gold coin, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on WEDNESDAY, the 4th day of May, 1864, at 11 o'clock A. M., so many shares of the capital stock of said company, standing in the names of the following persons, as will be necessary for the payment of all delinquent assessments thereon, together with the expense of advertising and sale, unless the same are previously paid:

Names.	No. Asst.	No. Cert.	No. Shs.	Am't
T. T. Bradshaw	3		40	$10 00
H. Ellis	3	139	10	2 50
H. Ellis	3	140	10	2 50
H. Ellis	3	141	10	2 50
H. Ellis	3	113	10	2 50
J. W. Henderson	3	77	5	1 25
J. J. Haley	3	—	100	25 00
M. Wormer	2 and 3		10	5 00
J. H. Whitman	2 and 3		4	2 00
— Mellon	3	144	2	50

15-1t M. WINN, Secretary.

Silver Star Gold and Silver Mining Company.—Office No. 706 Montgomery street, San Francisco.

Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Silver Star Gold and Silver Mining Company, there will be sold, at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on WEDNESDAY, May 25th, 1864, at 11 o'clock A. M. of that day, to the highest bidder, for cash, in U. S. gold coin, so many shares of the capital stock of said Company, standing in the names of the following shareholders, as will be necessary to pay the Assessments duly levied thereon, and now being due and unpaid, together with the expenses of advertising and sale—to wit:

Names.	No. of Certifs.	No. of Shares.	No. of Assts.	Amt.
Henry Berke —123 to 124, 126 to 135, 137 to 145,	215	610	3 & 4	$549 00
Sol A. Sharp	221	50	3 & 4	45 00
A. J. Banker	317	21	4	19 00
E. Chaquette	315	25	4	12 50

By order of the Board of Trustees.

17-4t WM. E. MOODY, Secretary.

Ida Gold and Silver Mining Company, Russ District, Tulare county, California.—Notice is hereby given, that on SATURDAY, May 14th, 1864, at noon, there will be sold, at Auction at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, a sufficient number of shares in the capital stock of the Ida Gold and Silver Mining Company, standing in the names of the following persons, to pay the Assessment (No. 6) of one dollar per share, levied December 2, 1863, and the Assessment (No. 7) of two dollars per share, levied March 2, 1864, together with the expenses of advertising and sale, unless the same shall have been previously paid—viz:

Names.	Certificates.	Shares.	Am't.
Allen, R. K.	411	10	$20
Allaire, Blanche E.	334	2	4
Braly, M. A.	299	12	24
Rellows, Horace	545	4	12
Browning, Jacob	201	5	10
Cooke, Thomas	402	5	10
Dannenberg, Joseph	214	5	10
Davis, Henry B.	339	5	10
Davis William	410	20	40
Gray, Wm. J.	339	5	10
Gray, Wm. J.	431	14	28
Gray, Wm. J.	435	1	2
Gregg, Stephen	493	10	30
Green, H.	198	20	40
Green, H.	281	20	40
Greenwood, M.	208	3	6
Hather, John	64	100	200
Haley, John J.	373	20	40
Hadler, Chas.	508	5	10
Hadler, Chas.	567	11	22
Hermann, Charles	257	5	10
Hermar, Charles	295	6	10
Hermann, Charles	466	14	28
Hermann, Charles	468	10	20
Hemenway, H. C.	459	6	12
Heath, James	319	2	4
Heath, James	409	12	24
Heath, James	539	6	12
Hitchings, Miss L. F.	430	2	4
Hodge, B. O.	6	5	10
Hodge, B. O.	7	5	10
Hodge, B. O.	8	5	10
Hodge, B. O.	187	5	10
Hodge, B. O.	242	2	6
Hopkins, M.	575	9	27
Ida Mill & Mining Co.	564	8	24
Johnson, P. R.	577	3	6
Kellogg, James	223	10	20
Kellogg, James	225	8	16
Kellogg, James	278	18	36
Kellogg, James	437	50	100
Lewis, R. P.	374	2	6
Longley, J. P.	384	4	8
Lovejoy, R. B.	209	3	9
Lyles, T. W.	293	25	50
Matthews, Oscar L.	548	5	15
Matthews, Oscar L.	550	5	15
Melnerney, Thomas	447	6	10
Miller, Leopold	171	5	10
Miller, Leopold	329	6	10
Miller, Leopold	367	5	10
Miller, Leopold	404	5	10
Miller, Leopold	405	2	4
Miller, Leopold	436	2	4
Miller, Leopold	476	8	16
Mouhiron, J. L.	472	10	20
Pratt, W. P.	155	8	16
Pratt, W. P.	428	10	20
Pratt, W. P.	429	8	16
Rand, D. H.	538	6	12
Roll, John	172	5	15
Roll, John	537	5	15
Roll, John	470	10	20
Schleicher, Jacob	387	5	10
Schleicher, Jacob	388	5	10
Sperry, James A.	525	25	50
Sperry, James A.	526	10	20
Sperry, James A.	527	12	24
Silverthorn, W. H.	78	4	8
Silverthorn, W. H.	149	3	6
Swigert, Adam	363	2	4
Schmolz, William	206	10	20
Scudder, Francis V.	485	5	10
Scudder, Francis V.	517	5	10
Taylor, John	578	2	6
Trenkle, Emil	288	10	20
Trenkle, Emil	295	10	20
Wallack, D.	77	5	10
Writers, G. F.	546	6	10
Wheeler, Zenas	127	4	8
Whitney, J. P.	443	20	40
Wittram, Charles	240	20	40
Whitson, B. F.	487	25	50
Wood, Joseph	197	7	14
Wood, Joseph	376	2	4
Wuthrich, John	370	40	80
Wynkoop, George C.	58	8	16
Yeates, John L.	49	2	6

By order of the Board of Trustees.

DAVID WILDER, Secretary,

15-1d No. 24) Montgomery street, San Francisco.

Saxon Copper Mining Company, Calaveras Co., Cal.—Notice is hereby given that in accordance with the laws of the State of California and an order duly made by the Board of Trustees of this Company, there will be sold at Public Auction at the office of the Company, at Copperopolis, on the 10th day of May, A. D. 1864, at three o'clock, p. m. of that day, to the highest bidder, for cash, in United States gold coin, so many shares of the capital stock of said Company standing in the names of the following shareholders as will be necessary for the payment of the assessments duly levied thereon by the Board of Trustees, together with the expense of advertisement and sale, unless said assessment and charges are paid before said sale.

Names.	No. Certificates.	Shares.	Amt.
Thomas H. Binnix,	3	50	23 50
Thomas H. Binnix,	63	50	23 50
Thomas H. Binnix,	64	100	47 00
Thomas H. Binnix,	75	50	23 50
Thomas H. Binnix,	76	10	4 70
Thomas H. Binnix,	77	10	4 70
Thomas H. Binnix,	78	10	4 70
Thomas H. Binnix,	79	10	4 70
J. H. Titcomb,	24	100	47 00
J. H. Titcomb,	27	25	11 75
J. H. Titcomb,	28	25	11 75
A. D. Titcomb,	81	25	11 75
M. R. Carrard,	87	50	44 50
M. R. Carrard,	88	50	44 50
M. R. Carrard,	89	50	44 50

By order of the Board of Trustees.

16-4t L. HONIGSBERGER, Sec'y.

The above Sale is postponed until SATURDAY, the 21st day of May, 1864, at 3 o'clock, P. M. By order of the board of Trustees.

L. HONIGSBERGER, Sec'y.

Revere Gold and Silver Mining Company.—Notice is hereby given, that at a meeting of the Board of Trustees of the Revere Gold and Silver Mining Company, held this 26th day of March, 1864, an assessment of one dollar and fifty cents ($1.50) per share was levied upon each and every share of the capital stock of said Company, to be paid immediately, in United States gold coin, to the Secretary, at his office, northwest corner of Washington and Montgomery streets, in the city and county of San Francisco, California. By order of the Board of Trustees.

15-5t H. C. KIBBE, Secretary.

Mr. Jarvis Jewett is our duly authorized advertizing agent and collector in this city.

Office of the Cedar Gold and Silver Mining Company, Esmeralda District.—Notice is hereby given, that there is delinquent upon the following described stock, on account of assessments levied on the 28th of March, 1863, July 16th and July 17th, 1863, respectively, of fifty cents per share each, as follows:

Assessment No. 1, 50 cents per share, levied March 28th, 1863.

Names.	No. Certificates.	Shares.	Amt.
H. S. Sanders,	Stock not issued.	88	$44 00
J. R. McGinnis,	Stock not issued.	9	4 50
Amos Houlton,	27	10	5 00

Assessment No. 2, 50 cents per share, levied July 16th, 1863.

L. B. Greenman,	5, 7, 8 and 9	50	25 00
Warren Norton,	31	12	6 00
T. E. Dorr,	43 and 44	20	10 00
James W. Tilton,	Not issued.	2½	1 25
J. R. McGinnis,	Not issued.	9	4 50
H. S. Sanders,	Not issued.	88	44 00

Assessment No. 3, 50 cents per share, levied July 17th, 1863.

L. B. Greenman,	6, 7, 8 and 9	50	25 00
Warren Norton,	31	12	6 00
T. E. Dorr,	43 and 44	20	10 00
James W. Tilton,	Not issued.	2½	1 25
J. R. McGinnis,	Not issued.	9	4 50
H. S. Sanders,	Not issued.	88	44 00

And in accordance with law, and an order of the Board of Trustees, made on the 11th inst., so many shares of each parcel of said stock as may be necessary, will be sold at the auction rooms of Jerome Rice & Co., 327 Montgomery street, on MONDAY, the 16th day of May next, at 12 o'clock M., to pay the said delinquent assessments thereon, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

T. L. BIBBINS, Secretary.

Office, 302 Montgomery street, San Francisco, Cal.

April 15th, 1864. 16-4t

Golden Role Mining Co., of Tuolumne County, Cal. —Notice is hereby given, that there is delinquent upon the following described stock, on account of assessment levied on the 3d day of March last, and assessments levied previously thereto, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certs.	Shares.	Amt
W. F. Herrick,	159	50	$25 00
W. F. Herrick,	160	50	25 00
W. F. Herrick,	161	50	25 00
W. F. Herrick,	188	25	12 50
W. F. Herrick,	189	25	12 50
W. F. Herrick,	229	22 2-9	11 13
L. D. Ingoldsby (2 nssts),	144	50	50 00
L. D. Ingoldsby (2 assts),	145	50	50 00
L. D. Ingoldsby (2 assts),	264	11 1-9	11 12
Jas. Boland (2 assts),	86	25	25 00
Jas. Boland (2 assts),	235	2 7-9	2 75

And, in accordance with law, and an order of the Board of Trustees, made on the 12th inst., so many shares of each parcel of said stock as may be necessary, will be sold by Jerome Rice & Co., public auctioneers, at their salesroom, No. 327 Montgomery street, San Francisco, on WEDNESDAY, the 18th day of May next, at 11 o'clock A. M., to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

JOHN B. RUSSELL, Secretary.

16-4t Office, 430 Jackson street, San Francisco.

Office of the Eureka Mining Company, Location of Works, Mineral Spring Mining district, County of Calaveras and State of California.

Notice is hereby given, that at a meeting of the Trustees of said Company, held on the 12th day of April, 1864, an Assessment of 20 cents per share was levied upon the Capital Stock of said Company, payable on the 16th day of April 1864 in United States Gold Coin, to the Secretary, at the Office of the Company, No. 625 Clay St., San Francisco, California.

Any stock upon which said Assessment shall remain unpaid on the 14th day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 30th day of May, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale.

C. W. HAYDEN, Sec'y.

Office, at No. 625 Clay Street, San Francisco, California. 16-4t

Butte Gold and Silver Mining Company, Reese River Mining District, Lander Co., N. T.

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 16th day of April, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on the 16th day of May, 1864, in United States gold and silver coin, to the Secretary, or to Dr. A. K. Stearns, Superintendent of the mine, at Austin, N. T.

Any stock upon which said Assessment shall remain unpaid on Saturday the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 4th day of June, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale, By order of the Board of Trustees.

J. F. STIRLING, Secretary.

Office, 502 Montgomery street, San Francisco. 16-4t

Rose Linda Mining & Manufacturing Company, Mokelumne Mining District, Amador County, Cal.—Notice is hereby given that at a meeting of the Trustees of the above Company, held on the 11th day of April, 1864, an assessment of Fifty (50) cents per share was levied upon the Capital Stock of said Company, payable in Gold and Silver coin on the 11th day of May next, to the Secretary, at the Office of the Company, 509 Clay St., Room No. 2.

Any Stock upon which said assessment shall remain unpaid on the 11th day of May next, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 26th day of May 1864, at the Office of the Company 509 Clay St., to pay the delinquent assessment, together with the costs of advertising and expenses of sale. HENRY HALE, Sec'y.

San Francisco, April 11th, 1864, 16-4t

Mammoth Gold and Silver Mining Company, Reed Spring District, San Bernardino Co.

Notice is hereby given that at a Meeting of the Board of Trustees of said Company, held on the 13th day of April, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on the 15th day of April, 1864, in United States gold and silver coin, to the Secretary, or to Wm. H. Hilton, Superintendent, at the mine.

Any stock upon which said Assessment shall remain unpaid on the 14th day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 28th day of May, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

GEORGE BOWER, Secretary.

Office, No. 611 Clay street, San Francisco. 16-1d

MINING NOTICES—MAY 7th.

Itasca Silver Mining Company, Kelly Ledge, Reese River District, Lander county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of May, 1864, an Assessment of forty cents per share was levied upon the Capital Stock of said Company, payable on the 7th day of May, 1864, in United States gold coin, to the Secretary, No. 11, Government House, cor. Sansome and Washington streets, San Francisco, or to Charles Wray, Superintendent, Austin, Lander county, N. T.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 22nd day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. EDW. QUACKENBUSH, Secretary.

Office, No. 11 Government House, cor. Sansome and Washington streets, San Francisco. 19-4t

Zealth Gold and Silver Mining Company, Mountain Ranch District, Calaveras county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 3d day of May, 1864, an Assessment, No. 5, of fifty cents per share, was levied upon the Capital Stock of said Company, payable immediately in United States gold coin to the Secretary at the office of the Company.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 18th day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

M. G. ELMORE, Secretary.

Office, 645 Clay street, S. F. 19-4t

Greca Monster Copper, Gold and Silver Mining Company, Inyo Mining District, Tulare county, California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 5th day of May, 1864, an Assessment of one dollar per share was levied upon the Capital Stock of said Company, payable immediately, to the Secretary, at his office, No. 23 Montgomery Block, San Francisco.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 22d day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale.

ISAAC N. THORNE, Secretary.

Office, No. 23 Montgomery Block, San Francisco. 19-4t

Illinois Gold & Silver Mining Company, Smoky Valley District, Lander county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 2d day of May, 1864, an Assessment of fifty (50) cents per share was levied upon the Capital Stock of said Company, payable on the 7th day of May, 1864, in United States Gold Coin, to the Secretary, or to RALPH BROWN, Superintendent at the Mine.

Any Stock upon which said assessment shall remain unpaid on Saturday the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 18th day of June 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

GEO. C. HARRIMAN, Sec'y.

19-4t Office, 622 Clay Street, San Francisco.

Noonday Copper Gold & Silver Mining Company, Clayton District, Contra Costa County California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 5th day of May 1864, an assessment, No. 5, of 20 cents per share was levied upon the capital stock of said Company, payable immediately, in United States Coin, to the Secretary, at the Office of the Company, corner of Bush and Kearny streets, San Francisco, California.

Any Stock upon which said assessment shall remain unpaid on the 4th day of June next, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold at the Office of Messrs Jerome Rice & Co., No. 327 Montgomery Street, San Francisco, on Wednesday, June 22nd, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of sale. L. E. MOROAN, Sec'y.

19-4t Office, Corner of Bush and Kearny Sts., San Francisco.

Great Central Mining Company. Weaver District, Arizona Territory.

Notice is hereby given, that there are delinquent upon the following described stock, on account of Assessment No. Two (2), levied Oct. 21st, 1863; Assessment No. Three (3), levied Dec. 26th, 1863; and Assessment No. Four (4), levied Feb. 12th, 1864, the several amounts set opposite the names of the respective shareholders, as follows:—

Name.	No. Cert.	No. Asst.	No. Shares.	Amt.
Battles, W W	65	2, 3 and 4	50	$37 50
Battles, W W	68	2, 3 and 4	25	18 75
Gerry, S R	67	3 and 4	25	12 50
Lawlor, Jos	129	3 and 4	20	10 00
Morrill Bros	135	3 and 4	50	25 00
Mullen, W E	16	4	10	2 50
Nagle, Ceo D	66	4	100	25 00
O'Brien, W	87	4	25	6 25
O'Brien, W	89	4	15	3 75
O'Brien, W	90	4	10	2 50
Rockwell, E A	114	2, 3 and 4	20	15 00
Rockwell, E A	115	2, 3 and 4	10	7 50
Rockwell, E A	116	2, 3 and 4	10	7 50
Rockwell, E A	117	2, 3 and 4	10	7 50
Seibel, Fred	83	4	25	6 25
Seibel, Fred	84	4	25	6 25
Seibel, Fred	85	4	15	3 75
Warfield, Alex	not yet issued.	3 and 4	100	50 00
Wigmore, John	59	2, 3 and 4	30	22 50

And in accordance with the laws of the State of California, and an order of the Trustees, made on the 28th day of March, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on WEDNESDAY, the 8th day of June, A. D. 1864, to pay said delinquent assessment thereon, together with the costs of advertising and the expenses of sale. RICHARD S. CLARK, Secretary.

19-4t Office No. 610 Merchant street, San Francisco.

Rubicon Gold and Silver Mining Company, No 2, Location of Mine, Keys District, Owens' River, Mono County, California.

Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Rubicon Gold & Silver Mining Company, No. 2, there will be sold, at public auction, to the highest bidder, for cash in United States Gold Coin, on the 7th day of June, 1864, at 11 o'clock, A. M., of that day, at the office of the Company, No. 7 & 8 third floor, No. 302 Montgomery street, San Francisco, so many shares of the capital stock of the Company, standing in the names of the following persons or shareholders, as will be necessary for the payment of assessment No. 4 of ten (10) cents per share; duly levied thereon February 27th, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said assessment and accruing charges are previously paid:

Names.	No. Asst.	Certif.	Shares.	Am't Due.
Bland Adam	4	no cer	150	balance, $9 38
Bush Henry	4	no cer	150	15 00
Cook Sarah	4	no cer	125	balance, 6 11
Carter W P	4	no cer	75	7 50
Davis W C	4	493	55	5 50
Davis W G	4	604	25	2 50
Davis W G	4	605	25	2 50
Davis W C	4	606	25	2 50
Davis W C	4	507	25	2 50
Davis W G	4	508	25	2 50
Davis W G	4	609	25	2 50
Davis W G	4	692	12	1 20
Davis W G	4	no cer	23	2 80
Doud Philo	4	no cer	131	12 12
Diggins Wesley	4		1500	150 00
Genung A M	4	no cer	150	balance, 9 37
Jeffress John	4	216	15	balance, 93
Jeffress John	4	242	6	balance, 37
Jeffress John	4	243	6	balance, 37
Jeffress John	4	244	12	balance, 75
Jeffress John	4	no cer	93	balance, 5 81
Kirby W L	4	315	50	balance, 3 13
Kirby, W L	4	316	25	balance, 1 56
Kirby, W L	4	no cer	35	balance, 2 15
Kneedler, John	4	246	12	balance, 75
Kneedler, John	4	247	50	balance, 3 13
Kneedler, John	4	340	5	balance, 31
Kneedler, John	4	no cer	58	balance, 3 62
Kimball, M H	4	no cer	75	balance, 2 50
Lovejoy, A J	4	71	25	balance, 1 56
Lovejoy, A J	4	262	12	balance, 75
Lane, Levi C	4	14	100	balance, 6 25
Lane, Levi C	4	15	25	balance, 1 56
Wheeler, Martin	4	5	25	balance, 1 56
Wheeler, Martin	4	35	30	balance, 1 87
Wheeler, Martin	4	40	25	balance, 1 56
Wheeler, Martin	4	41	25	balance, 1 55
Wheeler, Martin	4	no cer	575	42 18
Mitchell, D H	4	426	25	balance, 2 31
Mitchell, D H	4	436	12	balance, 1 11
Mitchell, D H	4	437	12	balance, 1 11
Mitchell, D H	4	444	10	balance, 92
Mitchell, D H	4	447	12	balance, 1 11
Mitchell, D H	4	497	25	balance, 2 31
Myrick, J W	4	no cer	150	15 00
Miller, M M	4	587	150	15 00
O'Connell, James	4	257	50	balance, 3 12
O'Connell, James	4	258	50	balance, 3 12
O'Connell, James	4	259	25	balance, 1 56
O'Connell, James	4	260	25	balance, 1 56
Porter, Thos H	4	173	10	balance, 62
Porter, Thos H	4	no cer	105	6 56
Reynolds, Jno	4	no cer	450	45 00
Richards, I	4	423	80	balance, 4 20
Smith, Wm	4	201	25	balance, 1 55
Smith, Wm	4	202	25	balance, 1 56
Smith, Wm	4	203	25	balance, 1 56
Smith, Wm	4	204	25	balance, 1 50
Smith, Wm	4	205	25	balance, 1 50
Smith, Wm	4	206	25	balance, 1 56
Spencer, O W	4	618	50	5 00
Spencer, O W	4	619	18	1 80
Spencer, O W	4	no cer	1357	135 70
Shoemaker, F	4	721	4	40
Shoemaker, F	4	725	65	5 50
Ware, Jos	4	663	12	balance, 75
Ware, Jos	4	661	12	balance, 75
Ware, Jos	4	718	25	balance, 1 56
Ware, Jos	4	no cer	129	balance, 8 06

By order of the Board of Trustees.

J. P. VAN HAGAN, Secretary.

Office No. 302 Montgomery street, No. 7 and 8, third floor. San Francisco, May 5th, 1864. 19-4t

Logan Gold and Silver Mining Company, Office, No. 528 Clay street, San Francisco, Cal. April 29th, 1864.

Notice is hereby given that in accordance with an order duly made by the board of Trustees of the Logan Gold and Silver Mining Company, there will be sold at public auction, by Jerome Rice & Co., at their salesroom, No. 327 Montgomery street, San Francisco, on Wednesday, June 8th, 1864, at 12 o'clock, M. to the highest bidder for cash, in Gold Coin, so many shares of the capital stock of the said company, standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay all assessments, now delinquent thereon, together with costs of advertising and all accruing charges, unless previously paid.

Names.	No. Shares.	No. Certif.	Asst's.	Am't due
Evan R. Evans	25	4	2nd	$25 00
Ellen A Spoor	10	15	2nd	10 00
R. McMurray	70	33	2nd	bal 51 00
E. S. Roberts	100	35, 121 to 124	2nd	100 00
Watkins Prieo	46	138	2nd	46 00
Thomas Waters	71	139	2nd	71 00
R. W. Myers	9	78, 97, 108	2nd	9 00
John C. Hay	10	89	2nd	10 00
John Jones	108	110, 113, 114	2nd	108 00
D. Temple	7	111	2nd	7 00

By order of the Board of Trustees.

19-5t B. W. MUDGE, Sec'y.

Walipi Gold and Silver Mining Company, Moss Lode, San Francisco District, Arizona Territory.

There is delinquent upon the following described stock, on account of assessments levied on the 21st day of March, 1864, the several amounts set opposite the names of the respective shareholders as follows:

Names.	Certifs.	Shares.	Amount
C. H. Dorlot	17, 18, 19, 20, 21, 22, 23, 24	200	$100 00
E. Y. Mason	3, 4, 5, 6, 7, 8, 38, 39, 40	175	87 50
Wm. P. Pool	34, 36	10	5 00

And in accordance with law, and an order of the Board of Trustees made on the 21st day of April 1864, so many shares of each parcel of said stock as may be necessary will be sold at the salesroom of John Middleton & Son, No. 400 Montgomery street, San Francisco, on Saturday, June 11th, 1864, at 12 o'clock, M., of said day to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

W. AUGUSTUS KNAPP, Sec'y.

19-5t 620 Washington street, Room, 3.

Henry & Barnard Consolidated Gold, Silver and Copper Mining Company, Weaver District, Arizona Territory.

NOTICE.—There are delinquent, upon the following described stock, on account of Assessment levied on the ninth (9) day of March, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shares.	Amt.
S P Taylor,	194	2	50
S P Taylor,	195	2	50
S P Taylor,	196	2	50
S P Taylor,	197	2	50
S P Taylor,	198	2	50
S P Taylor,	201	2	50
S P Taylor,	212	2	50
S P Taylor,	213	2	50
S P Taylor,	215	2	50
S P Taylor,	216	2	50
S P Taylor,	219	2	50
S P Taylor,	222	2-5	10
S P Taylor,	300	5	$1 25
S P Taylor,	305	10	2 50
S P Taylor,	306	10	2 50
S P Taylor,	307	10	2 50
S P Taylor,	308	10	2 50
S P Taylor,	312	10	2 50
S P Taylor,	313	10	2 50
S P Taylor,	315	5	1 25
S P Taylor,	316	5	1 25
S P Taylor,	317	5	1 25
S P Taylor,	318	5	1 25
S P Taylor,	319	5	1 25
S P Taylor,	320	5	1 25
S P Taylor,	321	5	1 25
S P Taylor,	323	5	1 25
S P Taylor,	324	5	1 25
S P Taylor,	325	5	1 25
S P Taylor,	326	25	5 25
S P Taylor,	329	25	5 25
Wallace Everson,	60	10	2 50
Wallace Everson,	64	100	25 00
Wallace Everson,	67	5 1-5	1 30
John Landers,	101	50	12 50
John Landers,	102	50	12 50
John Landers,	103	10	2 50
John Landers,	104	20	5 00
John Landers,	100	5	1 25
John Landers,	107	15 1 5	3 80
Geo W Barnard,	22	20 4-5	5 20
Ceo Bridges,	421	2	50
Ceo Roland,	411	2	50

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of April, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on the first (1) day of June, 1864, at 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

CEO. W. GILDERSLEEVE, Secretary.

19-4t Office 334 Montgomery street, San Francisco.

Smith & Martin Gold and Silver Mining Company, Reese River District, Lander county, N. T. Office, No. 35 Government House, San Francisco, Cal.

Notice is hereby given that in accordance with the Laws of the State of California, and an order duly made by the Board of Trustees of the Smith & Martin Gold and Silver Mining Company, there will be sold at Public Auction, at the salesrooms of Messrs. Cobb & Sinton, No. 406 Montgomery street, San Francisco Cal., on Saturday, June 13th, A. D. 1864, at 11 o'clock A. M, of that day to the highest bidder, for cash, in United States coin, so many shares of the Capital Stock of said Company standing in the names of the following persons as will be necessary for the payment of an Assessment of fifty cents per share, duly levied thereon by the Board of Trustees, on the 9th day of March, A. D, 1864, together with the expenses of advertisement and sale, to wit, &c,

Names.	No. Certificates.	No. Shares.	Amt.
Henry Smith,	Cert—13, 14 Shs—10, 10	20	$10 00
George Warren,	23	5	2 50
R Martin,	Cert—31, 40 Shs—10, 7½	17½	8 75
F C Robinson,	Cert—49, 50, 51, 53 Shs—20, 20, 10, 5	55	27 50
J A Maynard,	Cert—56, 57, 58, 59, 61 Shs—20, 20, 10, 10, 5	65	32 50
J Leffingwell,	59	20	10 00
A E Minniea,	Cert—62, 63, 64, 67 Shs—20, 20, 20, 5	65	32 50
William Rose,	Cert—76, 77 Shs— 5, 5	10	5 00
F F Hatfield,	Cert—82, 83, 84 Shs—10, 5, 7½	22½	11 25
Samuel Donnelly,	Cert—93, 121 Shs—7½, 2½	10	5 00
William Murphy,	95	5	2 50
E S Davis,	Cert—97, 98, 99 Shs—10, 5, 7½	22½	11 25
William Calnan,	100	9	4 50
David McDaniel,	7	15	7 50
C F Morrell,	10	10	5 00
Robert Raukin,	1	15	7 50
I W Doss,	101	5	2 50
Thomas McCartney,	118	2½	1 25
J C Dows,	122	10	5 00
W C Daggett,	Cert—125, 128, 132 Shs— 5, 5,	15	7 50
R S Cassinger,	127	10	5 00
W W Nixon,	130	10	5 00
W Wallin,	134	10	5 00
Isaac S Titus,	135	10	5 00

19-4t ROBERT T. POLK, Secretary.

Union Gold and Silver Mining Company,

Russ District, Tulare County, California.

NOTICE.—The Stockholders of the above named Company, are requested to hand in to the Secretary, their Certificates of Stock in the above named Company without delay, and receive in lieu thereof, Certificates of Stock of the Eclipse Gold and Silver Mining Company, as per resolution unanimously adopted at the Stockholder's meeting, held April 26th, 1864.

By order of the President.

San Francisco, May 3d, 1864. 19-4t] JAS. C. NORRIS, Sec'y. Office, 430 Jackson street.

Sore Throat, Cough, Colds, and similar troubles, if suffered to progress, result in serious Pulmonary, Bronchial and Asthmatic affections; often times incurable.

BROWN'S BRONCHIAL TROCHES

are compounded so as to reach directly the seat of the disease and give almost instant relief.

Agents for California, REMINGTON & Co., San Francisco. 19-1m

Mining and Scientific Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

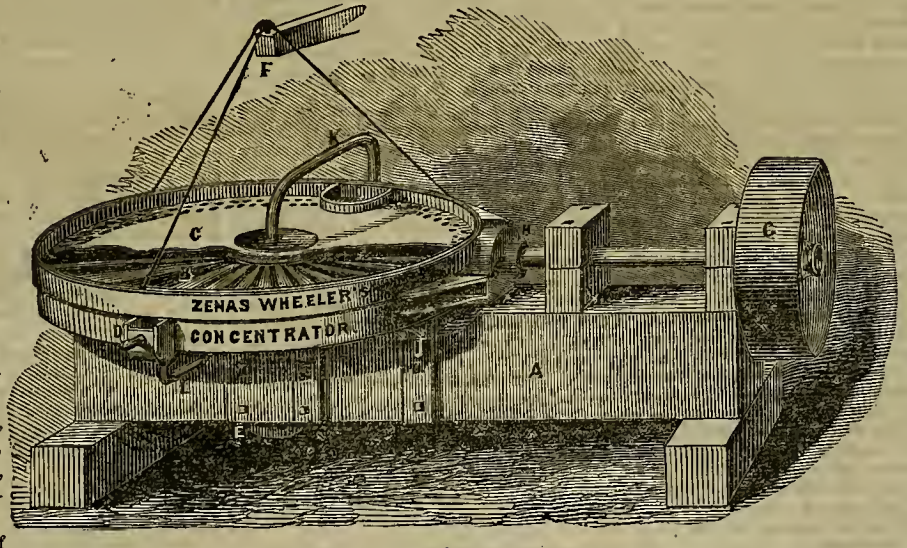
VOLUME VIII. SAN FRANCISCO, SATURDAY, MAY 14, 1864. NUMBER 20.

Contents:

No. 20—May 14—Twenty Pages.—Wheeler's New Patent Concentrator, Illustrated; Colorado Mining Stocks; The Formation of Metallic Veins, No. III.; Auriferous Pyrites; The Patio Amalgamation; MINING SHAREHOLDERS' DIRECTORY; Stock Reports for the Week; Reese River Stock Board; Washoe Stock Reports; Mechanical Department—Cold Welding; Patent Department—New Discoveries and Inventions; Silver Mines in California; Mining Gossip—Mysterious Feature of the Week; Mining Items; Editorial Paragraphs; Reese River Correspondence; New Incorporations.

WHEELER'S NEW PATENT CONCENTRATOR.

The annexed engraving represents a new concentrator recently invented by Mr. Zenas Wheeler, of this city, and already briefly alluded to in a late number of this paper. This machine is constructed upon the principle of a "center discharge," and vibrating disk. The pan may be made of iron, wood or other material, and of any convenient size, say from four to six feet in diameter, having a journal under it, to hold it in position, and upon which to vibrate. This journal is hollow, and forms the discharge pipe of the pan. The pan is so constructed that its center surface is two or three inches higher than the surface at the periphery, and as it is fed at the periphery, the sand must necessarily work its way *up hill*, to the center to find a discharge. This the lighter portion readily does, by the aid of the peculiar vibrating motion given to the pan —the heavier portion, consisting of sulphurets, amalgam, or free gold, remains near the circumference.



A represents a frame of wood upon which the pan is built and supported.

B is the pan which consists of a corrugated surface, radiating from the center, as is shown in the engraving.

C is an amalgated disk, one half of which only is shown, with a bowl in the center, from which the water and ore is equally distributed over the disk, and passes down through the holes at the water edge, into the corrugated pan below.

D is the outlet, or discharge for the excess of the concentrated matter, such as sulphurets, etc., while the machine is in motion. This discharge is regulated by a gate or slide, which can be adjusted to any required hight, so as to allow the proper amount of concentrated matter to pass out from under the waste and lighter matter which finds its egress through the center discharge.

E is the hollow journal through which the waste matter is discharged.

F, the rods for supporting the pan and its contents.

G, the driving pully on the cam shaft.

H, cam for vibrating the pan. The form of this cam is an involute, whose evolute is a circle, the cam being of the proper length to give the pan a motion of about ten degrees vibration. This peculiar form gives the pan nearly an equal velocity in every part of its vibration, causing it to stop and start so suddenly as to prevent the sand from packing on the bottom of the pan.

R, the pipe for supplying the pan with water and ores.

L, a pipe for drawing off the excess of mercury as fast as it accumulates.

The working of the pan is substantially as follows:—The pulp is fed, as already described, into a bowl in the center of the convex disk C, and flows out of this, evenly, over all parts of the said disk, and down through the holes in its periphery, into the corrugated pan below, where the quicksilver, amalgam and heavy matter is collected by means of inclined grooves near the outlet D; the quicksilver, as fast as it increases in excess, being constantly discharged through the bowl and pipe at L, into a dish by itself, while the sulphurets, as fast as they accumulate, are discharged into another vessel through the opening D; the waste matter passes out through the hollow journal in the center of the pan, and is discharged at E. It will thus be seen that the entire operation of this pan is automatic, both in principle and fact. Its great advantage over pans of similar construction consists in this perpetual discharge of quicksilver and amalgam into one vessel, and sulphurets into another, while the machine is in motion.

The Triunfo.—We have received the Second Annual Report of the Secretary, Henry S. Brooks, Esq., of the Triunfo G. and S. M. Co., which is located in San Antonio district, Lower California. This report is well and carefully prepared and gives quite a full detail of the transactions of the past year, together with a general review of the business of the company, its financial condition, etc. It is just such a document as should be issued, at least once a year, by every incorporated company which has stock floating in the market.

COLORADO MINING STOCKS.

The New York *Mining Journal* says that gold stocks are fast becoming a fixed fact in that market. The following are some of the Colorado quotations in New York:—

	Latest quotations.	Par value.
Quartz Hill	$25@25¼	$25
Gregory	25@26	50
Hope	12¼	25
Denver	10	20
Central	10@10¼	20
Montana	75c@$1	5

Heavy transactions are constantly taking place in Colorado. The last Colorado *Mining Journal* says that H. W. Dorsett has sold one-third interest in three claims on the Orphan Boy, in Park county, for $75,000 cash. Hostetter & Williams have sold another third of the same property for $60,000. Other parties have made sales, and excitement runs high in consequence. Gentlemen from Denver, where people are more insane, if possible, than they are in the mines, are visiting the South Park region with a view to speculating. Some six hundred companies are already organized under the territorial incorporation law, one of which, the Black Hawk Company, has a capital of $5,000,000.

Colorado, like California, is sorely troubled with "wild-cat" schemes, which never have possessed, and never will possess, any value. Of course when they are bought and sold somebody must be defrauded, and stocks of real value must suffer. Among this worthless class of stocks, may be ranked many of the so-called extensions, which are taken up to an indefinite extent, along the supposed line of every vein which has any value in the market. Of course many extensions are valuable, as upon the Comstock in Washoe and the Gregory in Colorado. The trouble arises from the reckless manner of purchasing. Nearly all purchases are made blindly; one purchases because another has just done so, and thinks it perfectly safe to pay the last price offered. To be successful in such operations requires both skill and judgment. Mining is a venturesome business at best, and, without extraordinary care and diligence, cannot fail to be a losing one. Properly conducted, few are more profitable.

The Pacific Iron Works Co. have fixed their base of operations in the pleasant suburb of Oakland, where they are now erecting suitable buildings for carrying on their operations. The site located is near the long wharf of the Oakland Ferry Railroad.

Communications.

[Written for the Mining and Scientific Press.]

THE FORMATION OF METALLIC VEINS.

NUMBER III.

BY EDWARD A. MILES.

If the metallic elements of veins originate chiefly from sedimentary, and partially from erupted rocks, the inference is that wherever particular metals are predominant, the surrounding rocks must possess certain similar chemical elements. Such is really the case, for, in common with silica, magnesia is largely present near all gold veins, eruptively in serpentine and greenstone porphyry, and metamorphically in talcose and chlorite slate, where, in the latter class of rocks, much of it was undoubtedly brought during the same process that deposited the gold. There is a partial exception in case of veins in clay slates of the silurian system; but even in them there is but little gold unless the walls are of a talcose nature. Magnesian and stratic limestones occur among the lower series of geological strata, where, as before observed, gold veins most abound. The writer knows of no original gold formation where the magnesian minerals are not present. In the absence of gold, the magnesian associated veins usually contain copper. The magnetic oxide of iron, or its sulphuret, is also intimately connected with gold and magnesia. There is a positive relation between lime and silver, and also between lime and galena. Where porphyries contain hornblend, which equally holds lime and magnesia as component parts, both gold and silver are present in their metallic veins. For general proof of these facts, the writer refers to every known mine in Europe, South America, Mexico, Washoe, and California. Most of the principal veins and mining sections of the two latter regions having come under his own personal observation, he can speak thereof with a great degree of certainty. No silver lead is found in Washoe unconnected with a calcareous formation, nor any of its gold yielding veins, or those of California, of any importance, free from the vicinity of an erupted rock containing magnesia. Certain strata, of particular geological epochs, are remarkable in every portion of the globe for the abundance and character of their metals, tin, zinc, mercury, antimony and bismuth having geological zones of ruling existence or quantity, as well as the metals previously mentioned. Iron being extensively dispersed throughout the earth's crust, is, as might be expected, present in nearly all metallic veins, and is the only useful metal which exhibits any traces of eruptive and massively sedimentary origin, as in veins of the siliceous and beds of the oxide forms. The condensation of metals in sedimentary strata with certain affinitive elements agrees with the fact, that veins in the older erupted rocks are seldom devoid of noble and useful metals, while such sedimentary formations as sandstone gather little or none in their veins, and that the richest mines of the world are found in altered and unaltered sedimentary strata, even where large areas of erupted rocks prevail. It is also substantiated by the fact, that a vein passing from one mineralogical formation into that of another composition changes the character of its metals as well as the degree of richness.

The writer holds the system of rocks connected with all considerable metallic deposits, (except, perhaps, those of iron) are voltaic batteries on an immense scale, and that all metallic solutions and after impregnations in veins or masses are due to the low but constant current of electricity engendered within them.

The metallic impregnation of veins might be simply considered as a chemical operation, but for the fact that no other power in nature but that of electricity gives analogous effects when reduced to visible action, nor can account for the peculiar phenomena of metallic combinations. Metals and elements far apart in volatility and specific gravity are found proportionately and regularly united in one homogenous compound, such as could not be produced by the sole effect of heat nor by simple deposition from mechanical or chemical solutions. And these connections correspond, in almost every respect, with their peculiar electrical affinities in all galvanic experiments. For sake of simplicity of explanation the infusion of veinstone has been treated solely as a chemical operation, although there can be no doubt but that electricity is the prime worker in all stages of the formation. Fox and Reich, two scientific experimenters, have demonstrated the existence of electrical currents in metallic veins by attaching the two wires of a galvanometer, or indicator of electricity, to different parts of the same vein, the strength and direction of these currents varying with the position and character of the surrounding rocks and the quality of the veins. It has also been proved, that two plates of rock in simple aqueous connection, and attached to the opposite poles of a galvanic battery, after a considerable length of time show much decomposition of the positive and proportionate crystalline accumulation on the negative piece. The agency of electricity in the primary and secondary changes of veins has been often surmised, but the writer is unaware of any attempt to systematically ally such a theory with all systems of veins, and the chief facts of vein running, nor of any plausible explanation of the derivation of metals.

The ordinary galvanic currents of batteries are caused by the mutual chemical action of a compound, as acid, and a simple body, as zinc, expelling an element of the former and substituting the latter, in which operation each sets free a surplus of its natural electricity not needed in the new combination, the more marked current from the zinc being termed *positive*, and that which flows in an opposite direction *negative*. To incite these currents and continuous chemical change, when the zinc is in contact with the acid, a third body, as copper, is necessary to act as a conductor to recombine the subtle fluids, or connect them with some active construction or decomposition. This bridging across of the extreme limits of flow of the opposite electrical currents by a conductor and connecting wire, either causes a neutralization to take place with a corresponding generation of heat, or an absorption within an interposed body capable of undergoing chemical secretion or decomposition through their influence. The latest views of modern science restrict not the electrical action to the required presence of a simple element uncombined with others, but extend the same mutual operations and effects to all compounds in nature, although in their case, by reason of the greater electrical equality of the resulting combinations, the free currents are less manifest. Not an atom of matter is mechanically or chemically changed in form or position, but brings electrical currents in play with greater or less evolutions of heat as their attendants. By the slight but continuous shifting of compound forms, regulated, perhaps, by the external changes wrought by the sun, currents of electricity ceaselessly engirdle the earth, and they are constantly destructive or creative. It is extremely doubtful if, aside from the action of gravity in sedimentary deposits, any solitary massive concentration of a simple element or its oxide form ever takes place in nature without the direct power of these currents to regulate the form and mode of deposition. It then becomes an important consideration regarding the ruling qualities of these currents. Different forms of this same cause are known as frictional, thermo, and voltaic electricity and magnetism. From its association with the great magnetic body, the earth, and with chemical changes, that which operates in veins may properly be termed electro-magnetic. The influence of electricity depends upon two conditions; first, *quantity*, which produces the effects of heat and ultimate chemical action, and second, *intensity*, or force, which is necessary to overcome the resistance of poor conducting medium. All bodies have different grades of electrical conduction, but their resistance increases with length and decreases in proportion to greater transverse area.

To prevent the electrical currents of nature from remaining intact or returning to their pristine relations, would seem to be the office of the sun, which in its diurnal journeys incites them to move in the planes of the earth, but certainly never under repeated relations of action. In truth, all engendered electricity has a disposition to move, either in the line of the length of the conductor, or else from the source to the most favorable point of emission or neutralization. Any upright, or nearly so, fissure or plate, containing such conductors as air, rock or water, must interrupt these currents, and, consequently, cause different conditions of quantity and intensity. In contact with the intruding medium a series of accumulations and neutralizations of the electricity will occur, producing the phenomenon of heat observed in the walls of all deep openings, and incorrectly ascribed to an internal molten condition of the earth. There is very little chemical alteration to be seen in undisturbed horizontal strata of rock, and their springs are generally pure, undoubtedly because their capacity for conduction is great in proportion to the quantity and intensity of electricity passing through them. While no collections of metal are found in the natural seams of horizontal beds of limestone, the massive portions of the rock, on the contrary, often hold deposits of lead connected with vertical fissures opening at the surface. As the greater or less length and depth of the interrupting fissures or plates, in comparison with the real center of final action, so must be calculated the proportionate effects. It is noticeable in galvanic batteries that there is always a greater chemical action in the plates about midway from the ends; a kindred action is remarked in true fissure veins, their greatest riches being found at intermediate depths, above and below which there is a decrease in the quantity of the predominant metals.

[To be Continued.]

Auriferous Pyrites.

The value of this important mineral, and the impression that, even by the most skillful and careful processes yet introduced for working it, a large amount of the gold which it contains is still lost, appears to be gaining ground among mill men everywhere. We have, from time to time, carefully noted the reported results of various experiments which have been undertaken to determine the most effective process for working this stubborn mineral. We have now before us a letter from Prof. A. L. Fleury, of Philadelphia, addressed to the editor of the New York *U. S. Mining Journal*, which will be read with interest. Mr. Fleury is well known at the meetings of the Polytechnic Association, New York, and the Franklin Institute, Philadelphia, for the results he has brought before them of the application of electricity in the puddling furnace and the decomposition of iron furnace and lays by caustic lime. The latter involves as large an economy in the production of iron direct from the ore as he now proposes in regard to gold:—

To the Editor of the U. S. Mining Journal:—In your valuable journal I have lately seen a number of new devices and processes for the extraction of gold from quartz, which present many valuable features; yet, there seem to be difficulties in the way of their practical introduction.

The decomposition of Pyrites by heat, assisted by air as well as by steam, has been tested in Europe as well as in this country, in the most varied ways; but though some inventors have asserted that they can desulphurize *all* gold containing pyrites without losing any of the gold, I have not had an opportunity to see this accomplished; and I believe that, to bring this most important fact about, other processes must yet be resorted to.

Notwithstanding the most positive assurances of some chemists, that the gold in ores always exists in a metallic state, it is my humble opinion (which at some future time I hope to be able to corroborate by unmistakable proofs) that gold can, and does exist in nature in a chemically combined state.

The fact so ably and beautifully demonstrated by Professor Faraday, in London—that finely divided gold can remain suspended in water for any length of time—leads me to think (and proofs are not wanting) that the gold which is contained in the pyrites of Colorado, California, Nova Scotia, San Domingo and Mexico, being in an immensely fine divided condition, is carried off in large quantities by the sulphur itself.

How much of the precious metal is carried away by the washing processes of the gold sand might well astonish your readers. I do not wish to frighten the companies and miners who use water for the concentration of their ores, and therefore I only state my personal belief, that at least one-third of the gold that is extracted is now washed away, invisible to the eye, which will at some future time, when we shall have learned better to economize, be made use of.

I intend to give you the reasons which led me to the discovery of my new method (of which I have explained to you the most prominent features) of working gold ores, and hope only that the economy in this now much coveted precious metal will cause chemists to turn their attention in a different direction.

A. L. Fleury.

Remarkable.—The Mississippi river about the mouth of the Missouri averages 3,600 feet in width. From there to the mouth of the Ohio it averages 3,200 feet; from the Ohio to the Arkansas to the Red river about 2,700 feet; and from the Red river to the Gulf of Mexico the average width is about 2,100 feet. Yet with this constant narrowing of the river the volume of water to be discharged is constantly increasing. Hence, it is contended, come those bayous which start out of the river and lead away into the swamps, and down in various directions to the gulf.

[Written for the Mining and Scientific Press.]

The Patio Amalgamation.

BY J. B. CHURCHILL, A. M.

I have been requested by the editors of the MINING AND SCIENTIFIC PRESS to undertake the task of describing the Patio process of amalgamating. I can only do so in the hope that by placing in juxtaposition the results obtained in the laboratory and *hacienda* some light may be obtained which may assist in solving the California problem—how to save more than 75 per cent.—the approved Gould & Curry standard of silver in our ores—how to save it under the difficult conditions of high-priced, unskilled labor, and scarce and insufficient supplies of fuel. Out of this process is said to have grown the Freiberg barrel amalgamation. Different improvements have superseded the latter method in Prussia, Saxony and Austria. In each of them we can trace this essential and distinguishing characteristic—they are adapted to the reduction of silver when this metal is present in the single form of chloride or sulphate—with more or less uniformity in the accompanying ores—a condition which is secured by previous roasting. In the Patio process, there are present at once, or there may be present, sulphate of silver, chloride of silver, metallic silver and amalgam, as artificial productions with silver in any of its natural forms, together with an indefinite variety and equally uncertain proportions of other metals, minerals and salts, both artificial and original. It is this point which constitutes the difficulty before us, as I think it will be also evident that it is this which has rendered abortive many experiments, some of them designed by men of great scientific attainments, and even when these have been made in the torta itself.

In order to facilitate the collection of information from such Mexicans as may be among us who are conversant with details, and may or may not be communicative, and for the help of those going to Mexican mines, I will commence by furnishing the following explanation of the terms locally used:—

Abronzado.—Yellow copper ore, sulphuret of copper.

Afinacion.—Refining.

Apartado.—Establishment for parting silver and gold.

Apuradores.—Men who wash the earth from the tinas.

Arrastra.—Mill for grinding ores.

Ascentado.—Term applied to arrastras in good working order.

Asciento.—Metallic residue in the bottom of the jicara.

Azogue.—Silver ore adapted for amalgamation.

Azogue en caldo.—Quicksilver.

Azogueria.—The wareroom in which quicksilver and pella are kept.

Azoguero.—An amalgamator; superintendent.

Bano.—The last portion of quicksilver added to the torta.

Barquina.—A large furnace.

Barquines.—Forge bellows.

Batea apuradora.—Large bowls 3-5 feet in diameter for receiving the cabetillaand re-washiag.

Beneficiar.—To extract the metal from the ore; to dress ore.

Beneficio.—Reduction of metal from the ore.

Beneficio de cazo.—Reduction of ore by amalgamation in copper pans with heat.

Beneficio de hierro.—Reduction of ore by amalgamation with fragments of iron.

Beneficio de pella de platn.—Term applied when silver amalgam is added to the torta.

Beneficio de la colpa.—Amalgamation in which colpa is added to the torta instead of magistral.

Beneficio por fuego.—Smelting.

Bollos.—Amalgam moulded into bricks, after pressing, for braing instead of retorting.

Boletas.—Tickets of accounts of sales and yields.

Bronce.—Iron pyrites.

Buytroa.—Furnace for smelting.

Burilnda.—Assay grains.

Buscones.—Tributors; miners on shares; prospectors; gleaners.

Cabetilla.—The residue after washing a *torta;* the heavier portions of ore very rich in amalgam.

Cajon de grauza.—The pit to receive the crushed ore.

Cajoa.—In Peru and Chili, two montons of thirty-two quiatals.

Cal.—Lime. Calviva.—Quicklime.

Calentadura.—The first heating of the furnace; putting the furnace into blast.

Calientes.—Warm ores containing sulphurets of iron and copper and no lime.

Calza, or Cal en piedra.—Limestone.

Calor.—Heat.

Calor de frio.—Term used when the reactions which are accompanied by heat when too much magistral is used, occur naturally from the coldness of the air.

Caparossa.—The person in charge of the sheds under which the *tahonas* are worked.

Capellinas.—Large iron or copper bells under which the quicksilver is separated from the silver in the amalgam by burning.

Carcamo.—The drain which carries off the earthy matter from the *tinas* when washing the amalgam.

Carga.—580 lbs. Spanish; a mule load.

Cargadora.—Term applied to the *tina* for receiving the material from the *torta.*

Casa de moneda.—The mint.

Caso.—A boiler used in hot amalgamation.

Castillo.—The frame of the stamping machine.

Caxo.—A measure containing many quintals; it varies in bulk; at Potosi it is equal to 5,000 lbs.

Cebar.—Term applied to the addition of quicksilver after the first charge; it also means the act of thoroughly mixing in the whole of the quicksilver with the wet *torta.*

Cebo.—The quicksilver so added.

Cedazos.—Sieves.

Cendrada.—The bottom of the refining or cupelling furnaces; made of fine earth and vegetable ashes, which have been leached; the materials of the cupelling test; the test itself.

Cendradilla o galeme.—The cupel.

Chapas.—Iron blocks on which the stamps fall.

Chino.—Iron or copper pyrites.

Colorados.—Ores containing native silver, or chloride, bromide or iodide of silver; also applied to ores colored with oxide of iron.

Colpa.—Colcothar.

Comalillos.—Furnaces for calcining pyrites.

Comillo.—A furnace.

Consumido.—The quicksilver required to reduce the silver to the metallic state.

Copola.—A cupelling furnace.

Copos, or Paxillas.—Little globules into which the quicksilver forms when the patio process is too quick.

Criba.—Perforated leather through which the stamped ore falls into the pit.

Cruces.—The cross pieces of the arrastra.

Cachara.—A spoon.

Cachara de cuerno.—A small horn bowl in which the earth of the tortas is washed, in order to ascertain from time to time the progress of the amalgamation.

Curtir.—Term applied to the addition of lime to warm ores, or of magistral to cold ores during the amalgamation.

Desecho.—Term applied to the mercury that appears broken up in the first trial.

Empleo.—The quantity of quicksilver mixed with the torta on any given occasion.

Ensalmorar.—The first process in amalgamation; mixing the saltierra with the lama.

Ensayo.—A trial test.

Esmanil.—Blende.

Estoraque.—Brown blende; sulphuret of zinc.

Frios.—Cold ores; those containing lime, and, therefore, requiring more magistral.

Galera.—A large shed or mill-house; also applied to the building in which the arrastras are arranged, generally in double rows.

Granza.—The coarse sand as it goes from the stamps to the arrastras.

Grena.—Ores in the rough before cleaning.

Hacienda.—Establishment for reducing ores.

Hacienda de beneficio.—Establishment for reducing ores by amalgamation.

Hacienda de fundicion.—Establishment for reducing ores by smelting.

Horno.—A furnace.

Horno de fundicion.—A furnace for smelting.

Horno de magistral.—Roasting stove for pyrites.

Incorporar.—In amalgamation, to add the first charge of quicksilver. See Cebar.

Jicara.—A small bowl for testing the tentaduras.

Lama.—Schlem, or slime, from the amalgamation.

Lamero.—Lama thickened with saltierra.

Lameros.—Lama pits.

Lavador.—A man employed in washing the ors after amalgamation, or in cleansing the ore.

Lavaderos.—Washing vats or tubs for separating the amalgam from the lama, also called tinas; the sheds in which these are arranged.

Ley.—Standard of the ore. Ley de oro.—Contents in gold. Ley de plata.—Contents in silver.

Limadura de plata.—Whitish appearance of the quicksilver on the edge of the amalgam when the process is going on well after the first quicksilver has been added; small leaves of amalgam.

Lis—Lista.—The broken up mercury which is brought to the surface of the tentadura in the jicara.

Macero.—The man who has charge of grinding the ores in the *tahonas* before the amalgamation.

Magistral.—Roasted copper pyrites containing sulphate of copper.

Manga.—A bag or strainer for straining the quicksilver from the pella, often made of sailcloth covered with leather.

Manganesa.—Manganese.

Maquila.—Rate paid to the proprietor of the mill for reducing ore on another man's account; applied chiefly to reduction by amalgamation.

Marco.—Eight ounces or one pound Spanish, equal to 3,552 grains English; used as well of standard as of unrefined metals.

Marquesitas.—Mundic iron pyrites.

Maza.—Stamp head for pounding ores.

Merma.—Loss of quicksilver in amalgamating, or of lead in smelting.

Metales plomosos.—Ores impregnated with lead.

Metapiles.—Stones for grinding of the *tahonas;* also pigs of copper used in the hot amalgamation.

Molienda.—The act of grinding or pounding ores.

La molienda.—The ores ground.

Molino, or Mortero.—Stamping mill.

Monton.—A heap of ore; a batch under amalgamation; a measure varying in different districts—at Catorce, 36 quintals; at Guanaxato, 35 quintals; at Real del Monte, Pachuca, etc, 30 quintals; at Zacatecas and Sombrerete, 20 quintals; at Fresnillo, 18 quintals; at Bolaaos, 15 quintals; and at Valenciana, 32 quintals.

Muestras.—Samples.

Mufla.—A tuyere.

Negros.—Ores containing sulphur, antimony and arsenic.

Ocre colorado.—Red ochre.

Pacos.—Earthy ores mixed with various ores of silver; when red, frequently called colorados; generally found near the surface.

Partido.—Division of ores between the owners and buscones.

Pasilla.—Dry-silver amalgam squeezed out in the jicara from the tentadura.

Patio de amalgamation.—The yard or court on which the ores are amalgamated.

Pella.—The silver amalgam when all the quicksilver which can be pressed out has been removed.

Pepenado.—Cleaned ores.

Pepenadores.—Laborers for cleaning ores.

Pepitas.—Small grains of gold or silver.

Perdida.—The loss of mercury beyond the amount allowed as consumido.

Pila apuradora.—The washing tank for separating the amalgam.

Pina.—The cake of silver left after distillation.

Planilla.—An inclined plane used for a second washing after separation of the heaviest ores.

Plata pina.—Silver after distillation.

Plata mixta.—Pina containing gold before parting at the mint.

Polvillos.—Ores fragile and rich; also the metallic sulphurets containing gold not amalgamated.

Polvorilla.—Black silver disseminated; sulphuret of silver.

Quilate.—Synonymous with carat. It is also an absolute measure, equal to four grains Spanish.

Quintal.—Four arrobas or 100 lbs. Spanish, equal to 101.45 lbs. English.

Raspando.—Scraping or cleaning up the arrastra.

Reboltura.—The mixture of ground ore and fluxes, or re-agents.

Rendirze.—Term applied to the torta when the amalgamation is finished.

Repasar.—The mixing together of the ore, quicksilver and other materials of the torta by treading, either by man or mules.

Repasadores.—Men who tread the torta.

Sala.—The principal room of the hacienda.

Sal mineral.—Mineral salt for amalgamation.

Sal tierra.—Impure or earthy salt.

Salineros.—Ores requiring much salt to effect the amalgamation.

Tahona.—A mill of small horizontal stones.

Tentadura.—An assay or trial.

Tepetate.—Rubbish after cleaning ores.

Tina.—A vat; stone tank.

Tina cargadora, ditto Descargadora.—The receiving and discharging tanks as arranged for separating the amalgam in the lavadero.

Tiro de mulas.—A set of mules.

Torta.—The quantity of ore under amalgamation, forming a flat heap or cake.

Torta rendida.—The yield ready for washing.

Vitriolo azul.—Blue vitriol; sulphate of copper.

Vitriolo blanco.—White vitriol; sulphate of zinc.

Vitriolo verde.—Green vitriol; sulphate of iron.

Voladoras.—Grinding stones of the arrastra.

Vuelta.—The bright glow on the surface of the silver when the last film of oxide of lead suddenly separates in cupelling.

[To be Continued.]

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and the Place of Business of the Corporation if it is not in San Francisco.

REVISED EVERY ISSUE.

Advertised in the Mining and Scientific Press

AND OTHER SAN FRANCISCO JOURNALS*.

Astor, Ravenswood, 50 cents.....Sale June 29*
Amador Cons., Amador, R. R., $5.....Sale June 15
Amageza, Salt Spring, four dollars.....Sale June 11
Amador Coal.....Sale May 18
Agmemnon, Kelsey, 5c, 3c and 5c.....Sale June 14
Arlington, St. Mary's, 10 cents.....Sale June 8
Andes, Gold Hill, $2.50.....Sale May 14
Arizona Cons., Eureka, 20 cents.....Sale June 15
Alameda.....Sale May 18
Argent-Oro, Reese River, $1.....Sale June 18
Apache Chief, La Paz.....Sale May 25
Alhambra, $1.....Sale June 6
Altaville Quartz, Calaveras county, $2.....Sale June 14
Alemania, San Antonio, $2.....Sale June 18
Arizona, Eureka .....Adjd Annual Meeting May 23
Alhambra Summit, $1 .....Sale June 10

Bay City, Reese River.....Quarterly Meeting, May 30*
Butler, Reese River, 20 cents.....Sale May 25*
Butte, Reese River, 50 cents.....Sale June 4*
Bajazette, Lander county, 50 cents.....Levied March 30*
Billett, Reese River, 12½ cents.....Sale May 25*
Big Blue Lead, Cave, $1.....Levied April 4
Baja California, San Antonio, $1.....Sale June 7
Black Ledge, Reese River, 50 cents.....Sale May 28
Blanding, Devil's Gate, 50 cents.....Sale May 23
Bodie Bluff Cons, Bodie.....Annual Meeting May 20
Bodie Bluff Cons., Bodie, $1.....Sale May 14
Blue Ledge, Reese River.....Sale May 19
Beaver.....Meeting May 14
Bodie Cons., No. 2.....Meeting May 27
Bay, Clayton, 50 cents.....Sale May 31
Blue Jacket, Devil's Gate.....Sale May 18
Baltic.....Sale May 30—Virginia
Bay of Monterey, Santa Cruz, 25 cents.....Sale May 16
Buffalo, Calaveras, 50 cents.....Sale June 10
Buckeye, Devil's Gate, $3.....Sale May 17
Bella Vista, Cacachiltas, $1.....Sale June 11
Bluxome, No. 1.....Sale May 18
Bluxome, No. 2.....Sale May 18
Bullion.....Sale June 2, Virginia
Boston, Ohio.....Sale May 18
Black Prince, R. R., 50 cents.....Sale June 20
Beach & Paxton, Virginia.....Sale May 30

Cortez, Cortez district, $2.50.....Sale June 20*
Crown Point, Reese River, 50 cents.....Sale June 15*
Cedar, Esmeralda.....Sale May 16*
Cochece, Humboldt .....Sale May 30*
Chicago, Reese River, $1.....Sale June 11
Crockett, Esmeralda, $2.....Sale June 9
Chollar, Virginia, $12.50.....Sale May 28
Caledonia Tunnel, $3.....Sale May 25
Central, $15.....Sale May 16
Caldwell, $1.....Levied April 4
Calaveras, Iron Mountain, 25 cents. .....Sale May 18
Charles Cauy.....Sale May 24
Chrysopolis, Virginia, $1.50.....Sale June 10
Cosmopolitan, Gopher.....Sale May 17
Coral, Amador.....Sale May 21
Codicia, San Antonio, $2.....Sale May 25
Catalina Cons., San Pedro, 10 cents.....Sale June 11
Cox & Rose, Reese River, $1.....Sale May 25
Cox & Rose, Reese River.....Annual Meeting, June 6
Copp, Sierra.....Sale June 11
Cole.....Sale June 8
Cosala, Cosala, $2.....Sale May 25
Cedar Hill.....Special Meeting June 4
Columpio, Cosalo.....Sale May 18
Crown Point, Gold Hill.....Sale May 23
Cortez, Big Creek.....Sale May 23
Chrysopolis, V. D.....Adjourned Annual Meeting May 20
Coral Hill, Amador, 60 cents.....Sale May 28
Coleman, No. 1.....Sale May 18
Coleman, No. 2.....Sale May 18
Cinnabar, Virginia, 50 cents.....Sale June 18
Coso, Coso, $1.....Sale June 1
Crown Lead, Mariposa county, $1.....Sale June 18
Clinton, R. R., $1.....Sale June 6
California, La Paz.....Sale June 15

Dane, Esmeralda, 50 cents.....Sale May 25*
Dunkirk, Reese River, $1.....Sale June 4
Darrah, Amador, 50 cents.....Sale June 3
Desoto, Star, $2.....Sale May 18
Diana, Reese River.....Sale June 3
Daniel Webster, Sacramento, 15 cents.....Sale May 25
Don Juan, Mochicahue, Mexico, 15 cents.....Sale June 21

Eureka, Mineral Spring.....Sale, May 30*
Excelsior, Reese River District, 25 cents.....Levied March 22*
Equal Chance.....Annual Meeting June 13*
Essex, Reese River, 20 cents.....Sale May 25*
Enterprise, El Dorado Canon.....Caution—Certificates sold*
Enterprise, Reese River, 20 cents.....Sale May 25*
Enterprise Tunnel, Reese River, 25 cents.....Sale May 14*
Eureka, Calaveras county, 20 cents.....Sale May 30*
Eureka Mill, Big Creek, five dollars.....Sale June 11*
Exchange, Lander county, 25 cents.....Sale June 22*
Eveca Cons.....Special Meeting May 26
El Tasto, Sonora, Mexico, $3.....Sale May 16
El Dorado, Virginia, $2.....Sale June 22
El Dorado, Virginia, $2.....Sale June 22
Eclipse, Reese River.....Sale June 10
Elhan Allen, $1.....Sale June 4
Emilia, Guerrero, 25 cents.....Sale May 30
El Alamo de San Antonio, San Antonio, $1.....Sale June 10
Exchange, Low Divide, 13 cents.....Levied April 21
Eastern, R. R.....Annual Meeting June 6
Eclipse, Russ, $5.....Sale June 25
Empress, Gold Hill, $3.....Sale June 11
Empire, Santa Cruz, 25 cents.....Sale June 22
El Dorado, Virginia, $2.....Sale June 22
El Dorado, Virginia, $2.....Sale June 11
Eureka, Mineral Spring.....Sale May 16
Esmeralda.....Annual Meeting, June 6
Eagle, Quartz, Amador county, $1.....Sale June 15
Evening Star, Trinity, 50 cents.....Sale June 2
Evening Star, Trinity.....Meeting, June 30

Franco Americana, San Antonio.....Sale May 21
Fork, 25 cents.....Sale May 25
Flora, Reese River, ...Annual Meeting, June 6

Those marked with an asterisk (*) are advertised in this paper.

Flor de San Antonio, San Antonio de la Huerte.....Sale May 12
Flor de San Antonio.....Special Meeting, May 20
Fellows, Quartz, $1.....Sale June 11

Grafton, Reese River, 25 cents..... .....Sale May 25*
Golden Rule, Tuolumne county.....Sale May 18*
George Leet, Reese River, 50 cents.....Sale June 15*
Gebernadera, Lower California, $1.....Sales May 30 and June 11*
Great Central, Weaver.....Sale June 8*
Green Mcnster, Inyo, $1.....Sale June 22*
Gratten, Echo, 10 cente.....Sale May 28
General Grant, Slate Mountain, 50 cents.....Sale June 11
Governor Downey Cons., Buena Vista, $1.....Sale June 17
Guadalupe, 50 cents.....Sale May 28
Guadalupe de Los Angeles, Durango.....Sale May 19
Garibaldi, Aurora.....Sale May 18
Green, Gold Hill .....Sale May 25
Green, Gold Hill.....Annual Meeting June 4
Golden Gate, Gold Hill, $1.....Sale May 26
Gold Rock, Murphy's Camp.....Sale May 28
Governor Seymour, Reese River, 50c and 50c .....Sale May 21
Great Western, Esmeralda, 20 cents.....Sale May 15
Green Lode, Holcomb Valley.....Meetiur May 10
Germania, No. 2, 20 cents.....Sale June 14
Good Return, Inye, 25c and 50c.....Sale June 8
Grand Turk, Gold Hill, 50 cents.....Sale May 31
Garibaldi, Esmeralda.....Special Meeting May 21
Graham.....Sale May 18
Goodwin, Simpson Park, 25 cents.....Sale June 18
Goodwin, Simpson Park, 25 cents.....Sale June10
Guadalupe del Augusilto, San Javier, Mexico, 50 cents..Sale May 26
Guadalupe de Los Angeles, Durango, $1.....Sale June 21
General Hooker, 50 cents.....Sale June 16
Gold Hill, Colonia, 25 cents.....Sale May 30
Great Central, Smoky Valley.....Annual Meeting May 20
Gopher, Gopher.....Sale May 21
Good Hope, Alpino, 75 cents.....Sale June 8
General Rosecrans, Big Creek, 25 cents.....Sale June 15
Gem Hill, Summit, 25 cents.....Sale June 10

Henry & Barnard, Weaver.....Sale June 1*
Hyack, Reese River, 20c and 30c.....Sales May 25 and June 15*
Hornet, Reese River, 50 cents.....Sale May 10
Hawley, Devil's Gate.....Sale June 1
Harkey, Reese River, 50 cents.....Sale May 13
Hale & Nercross, Virginia.....Sale May 23
Hartford, $1.....Sale May 30
Humboldt, Sierra, $2.....Sale May 25
Heidleborg, Tomales Pais, 10 cents.....Sales June 1
Hornitos, Mariposa, $1.....Sale June 8
Hawley, Lyon county, $2½.....Sale June 4
Hudson, Devil's Gate, $1 & $1.....Sale May 18
Honest Miner No. 2, Lander county, 50 cents.....Sale May 25

Ida, Russ district, $1 and $2.....Sale May 14*
Illinois, Lander county, 50 cents..... ...Sale June 18*
Itasca, Reese River, 40 cents..... .....Sale June 22*
Ironsides, Esmeralda, 25 cents.....Sale June 10
Indian Valley.....Sale May 16
Irving, $2.....Sale May 16—Virginia
Independent, $5.....Sale May 19—Cold Hill
Insurance, Virginia, $1.....Sale June 20
Iowa, Esmeralda.....Sale July 2
Iturbide.....Quarterly Meeting, June 6
Iowa, Esmeralda, $2.....Sale June 13

John J Crittenden, R. R., 25 cents.....Sale May 28*
Jesus Maria, Sonora, $1, 50c, 25c, 50c and 5c.....Sale May 10
Jewel, Devil's Cate, $4.....Sale May 25
Julia, Virginia.....Sale May 31
Jessup, Calaveras county, $1.....Sale May 30
Josephine, Calaveras county, $1.....Sale May 30
Josephine, Coso, $1.....Sale June 27

Kelsey, El Dorado county.....Sale June 13*
Keokuk, Conlra Costa county .....Sale May 25*
Kohler Brothers, Mexico.....Sale May 26

La Marronena, L. C.....Meeting June 5—Sale May 30*
Lewis Cons., R. R., 25c and 25c.....Sales May 25 and June 15*
Lord Byron, Devil's Cate dist., $1.....Sale June 4*
Laurel Hill, Tuolumne county.....Sale May 18*
Logan..... Sale June 8*
Laura Johnson.....Sale June 3
Lander County Ophir, Big Creek.....Sale May 23
Los Cruzecitas, San Xavier, $6.75.....Sale June 13
Las Cruzecitas, San Xavier.....Annual Meeting May 18
Lafayette, Gold Hill, $5.....Sale June 1
Langhorne Cons., Summit, 50 cents .....Sale June 3
Lady Bryan.....Meeting May 25
Last Bell, El Norte county, 10 cents.....Sale May 28
La Providencia, $1.....Sale June 6
Lone Star, Reese River.....Annual Meeting June 6
Lady Bryan, Flowery, $3.....Sale June 25
London, Quartz, Siskiyou county, $1.....Sale June 11
Lyon & Leland Consolidated.....Sale May 30
La Candelaima, Durango, Mexico.....Sale June 15
Lochinvar, Gopher, 30 cents.....Sale June 25
La Blanca, Ures, $2½.....Sale June 22

Mammoth, Rock Spring.....Sale May 28*
Minnehaha, Reese River District, 25 cents.....Levied March 22*
Mosquito, Calaveras County, $5 .....Adv. June 11—Sale July 1*
Morning Call, Big Creek, 50 cents.....Adv. June 11—Sale June 29*
Mountain Mary, Silver Mountain.....Meeting May 21*
Mountain Mary, Silver Mountain, 25c.....Sale June 15*
Mount Eden, Cold Hill district .....Sale May 31*
Memphis, Reese River, 25 cents.....Sale May 25*
Meteor, Reese River, 20 cents.....Sale May 25*
Mechanics, Contra Costa county.....Sale May 18*
Mount Zion, Centra Costa, 25 cents.....Sale May 16*
Mammoth, San Bernardino, 50 cents..... .....Sale May 28*
Mount St. Helens, Bear, $1.....Sale June 2
Melones & Stanislaus, Careon Hill, $2.50.....Sale June 18
Monster Hill, Inyo, 25c and 50c.....Sale May 30
Minerva, Virginia, $25.....Sale June 4
Monster Cons., 50 cents.....Sale May 14
Monterey, Devil's Cate.....Sale May 27
Monitor, Silver Mountain, $1.....Sale June 10
Mandat, Del Norte, 50 cents.....Sales May 10 and June 3
Metropolitan, Inyo, 25 cents.....Sale June 1
Mount Washington, Devil's Gate, 50 cents.....Sale May 23
Mount Eden, Gold Hill.....Meeting May 17
Magna Charta.....Special Meeting June 18
Mount Vernon, Smoky Valley.....Annual Meeting May 19
Mammoth Ledge, Low Divide, 50 cents.....Sale May 28
Michigan.....Sale May 14
Mina Prieta, Ures, $40.....Sale June 18
Mountain Queen, R. R. .....Sale June 11
Morning Star, Great Mogul, 25 cents, 50 cents, & 30 cents.Sale June 14
Melrose.....Sale May 21, Humboldt City
Musidova, San Antonia.....Sale May 21
McLellan, Virginia, $2½.....Sale June 1
Melones Sink, Calaveras county, 15 cents.....Sale June 25
Magdalena, San Jose.....Annual Meeting, May 21

Noble Grand, Inyo.....Sale May 24*
Nicolaus, Reese River, 10c and 25c.....Sales May 25 and June 15*
Neonday, Contra Costa county, 20 cents.....Sale June 22*
North Potosi, Virginia.....Sale May 19
North Potosi, Virginia, $12.50.....Sale June 11
North Star, Reese River.....Sale May 30
Nueva Fortuna, Cacachilas, 50 cents.....Sale May 31
Nelson Cons., Gold Hill, $2.....Sale May 26
New England Cons., Santa Catalina.....Sale May 25
Nevada, Justice, $20.....Levied April 9—Virginia
North American, Gold Hill, $20.....Sale May 24—Virginia
Nebraska, Santa Catalina, 25 cents.....Sale May 30
North Valley Forge, Big Creek.....Sale May 23
New Era.....Annual Meeting June 6
Nevada, R. R.....Sale June 7
New York Quartz, El Dorado county.....Sale May 19
New England Cons., 5 cents.....Sale June 3
Nonpariel, Tuolumne county, $5.....Sale June 14
North Eclipse, Russ, 10 cents.....Sale June 20

Ophir, El Dorado Canon, 15 cents.....Ad. June 8—Sale June 20*
Oxford Beta, Silver Hill, 50 cents.....Sale June 29*
Ophir of Colorado No. 1, Colorado.....Sale June 11*
Ossipee, El Dorado.....Sale May 18
Occidental, Soledad, 30 cents.....Sale June 15
Omega Cold Hill, Virginia, $25.....Sale June 4
Owens River, Inyo, $18.50.....Sale May 25
Overman, $30.....Levied April 16—Gold Hill
Ontario, Reese River, $1, $2 and $5.....Sale May 25
Original Crœsus, Sierra, $1.....Sale June 20
Original Crœsus, Sierra, $3.....Sale June 20
Old Hickory, Amador, Reese River, $1.....Sale June 10
Oceola.....Sale June 3—Virginia
Owens River.....Meeting, May 20
Otate.....Annual Meeting May 21
Oceola, Summit, 25 cents.....Sale June 10
Oceola, Summit, 25 cents.....Sale June 3

Prima Donna, Devil's Gate District.....Sale June 15*
Palma, Ures district.....Sale May 30*
Pena, Lower California.....Meeting June 8—Sale May 30*
Pontiac, Reese River, 20 cents.....Sale May 25*
Pride of Nevada, Reese River.....Sale May 18*
Pearson, Lander county, 25 cents..... .....Levied March 30*
Peacock, Reese River, 25 cents,.....Sale June 22*
Progress, Reese River, $1.....Sale June 18
Pride of Nevada, Reese River, 25 cents.....Sale June 14
Pacific Paint M. & M., $2.....Sale May 21
Portor, Virginia, $5 and $5.....Sale May 26
Planet, Williams' Fork.....Adjourned Annual Meeting May 16
Paget, El Dorado county, 50 cents.....Sale June 15
Pactolus, Devil's Gate, 50 cents.....Sale June 4
Peninsular, San Antonio.....Sale May 21
Peninsular, San Antonio .....Sale May 19
Pacific, Santa Catalina, 50 cents.....Sale May 6
Penole, Clayton, 50 cents.....Sale May 25
Peruvian, Devil's Gate, 50 cents.....Sale June 15

Queen of Antilles Cons, Lander, 25c.....Levied March 30*
Queen of the Mountain, Big Creek, 25 cents.....Sale June 15

Rose Linda M. & M. Co., Amador co., 50c.....Sale May 20*
Rubicon 1, 2, 3 and 4, Keye district.....Sales May 24 and June 10*
Rubicon No. 2, Keys.....Sale June 7*
Rubicon, No. 3, Keys, 10 cents.....Sale June 14*
Rubicon. No. 4, Keys, 10 cents.....Sale June 14*
Rhodes Diggings Quartz, Rhodes Diggings..... ...Sale May 20
Rothschild, Inyo.....Sale May 23
Real del Moute, Esmeralda, $20 .....Sale May 23
Revenue, Reese River, $1.....Sale June 18
Rockwell, Ravenswood, 50 cents.....Sale June 4
Red Jacket, Reese River.....Sale May 31
Rose, Humboldt, $1.....Sale June 15
Realto, Alamos, Mexico, $1.....Sale May 23
Rhode Island, Keys.....Annual Meeting, May 21
Rhode Island, Keys, 10 cents.....Sale July 12
Ruba, R. R., 25 cents.....Levied March 31
Red Jacket, Devil's Gate .....Sale May 15
Rosario & Carman, $2, $2, & $1 20.....Sale May 23
Ranchaila, Quartz.....Meeting, June 6
Regina, Inyo, 15 cents.....Sale June 17

Segregated Crown Point, Gold Hill, $26.....Sale June 25*
Storra Cloud, Reese River.....Annual Meeting May 30*
Scettie.....Sale May 31*
Scorpion, Virginia district.....Sale May 28*
Sonoma county, Cloverdale, 10 cents.....Sale May 16*
Scottish Chief, Reese River, 10 cents.....Sale May 25*
Samantha, Reese River, 25 cents.....Sale May 25*
Saxon, Calaveras county.....Sale May 21—Copperopolis*
Sierra Consolidated, Sierra county.....Sale May 16*
Sonoma Ledge, Reese River .....Sale May 23*
Silver Star, Virginia dist, 25 cents.....Sales May 25 and June 8*
Smith & Martin, Reese River.....Sale June 13*
Salt Spriug Valley, S. S. Valley, 10 cents..Sale June 1—Jenny Lind
Stonewall Cons., Last Chance Hill, $1.....Sale June 15
Santa Rita, Inyo, 25 cents.....Sale May 30
Salinas.....Sale May 20
Standard, Reese River, 50 cents.....Sale June 8
Santa Teresa, Mexico, $2.....Sale June 3
Sheshone, Lander county.....Sale May 17
Surprise, Mariposa.....Sale May 25
Sumner, Kern river.....Meeting May 14
Sacramento & Meredith, Cedar Hill, $2.50.....Sale June 8
Sickles Colorado Prospecting, $50.....Levied April 16
Spanish.....Sale June 1—Virginia
Sides.....Sale May 20—Virginia
Santa Rosa, Virginia, $1.....Sale May 25
Sheba, Star, $5.....Sale May 23
Sutro, $1.....Levied April 30—Virginia
Sixty-Ninth.....Sale May 23—Nebraska
San Lorenzo, Santa Cruz, 50 cents.....Sale May 10
Sarah Frances, Webster, 15 cents .....Sale May 18
Sierra Nevada, $5.....Sale May 14
San Francisco, Gold Hill, $3.....Sale June 28
Star, Big Creek.....Sale May 23
South Central, Big Creek.....Sale May 23
San Marcial, Sonora, Mexico, $1.50.....Sale June 22
Sailor, Blue Mountain, 20 cents.....Sale June 15
San Carlos.....Quarterly Meeting June 8
San Jose de Ventanos, San Dennas, $5.....Sale June 17
Siskiyou, Humbug Creek, 50 cents.....Sale May 24
Stanislaus, Calaveras, 50c.....Sale May 38
Slate Mountain, Slate Mountain, 25c.....Sale June 25
Stearns C R, 25c.....Sale June 28
Santa Rosa, Virginia, $1.....Sale June 3
South Crown Point, $2 50.....Sale June 18
Snell, Alpine.....Sale June 15
Silver Circle, R R, $1.....Sale June 25
Salvatierra, La Paz.....Sale June 15
Soledad, Soledad .....Annual Meeting June 13
Santa Cruz, San Antonio, $2 50, ...Sale June 28
St George, Storey Co, $1.....Sale June 20
Star of Nevada, Lander Co, 50c & 50 .....Sale May 21
Santa Rosa, Inyo, 40c.....Sale June 21
South Eclipse, Russ, 10c .....Sale June 20
Santa Rita, Inyo 50c .....Sale June 20
Sonoma Co, R R, 25c, ...Levied March 31
San Nicholas, Durango, Mex., $7 & $2.....Sale May 18
San Fran. Gold Hill, $1 .....Sale June 4
San Fran, Gold Hill, $1 .....Sale June 13
San Fran, City, Sierra, 5c .....Sale May 25
Soledad Hill, Soledad, $5 .....Sale June 8
San Carlos, Inyo, $1 50.....Sale June 8

Simpson & Bonselle, Carson Valley.....Sale May 25
Simp on & Bonselle, Carson Valley .....Sale May 21
Silver Age, Amador, 60c.....Sale June 9
Siempre Vivia, Zarlcoza Mex., $1 .....Sale June 20
Superior, Great Mogul, 25c, 10s, & 25c.....Sale May 21
Sumner, Kern River.....Meeting May 16
Sirene, West Pt, 50c .....Sale June 29
Sirene, West Pt, 50c, ...Sale May 21

Tornado, Colorado, 50c and 50c.....Sale June 13*
Tuolumne, San Francisco District.....Adv. June 11—Sale June 29*
Tellurium, Amador county, $1.....Sale June 4*
Tehama, Reese River, 25 cents.....Sale May 25*
Table Mountain, Calaveras county.....Sale June 1*
Tulare, Inyo, 25 cents.....Sale May 18
Tuscoran, Reese River, 50 cents.....Sale May 24
Troy, Reese River, $1.....Sale May 26
Tennessee, Echo, 50 cents.....Sale June 18
Teutonia, Gold Hill, 50 cents.....Sale May 25
Teutonia, Gold Hill, $1 .....Sale June 4
Tecolota, San Dimas, $1.....Sale June 14
Tuolumne Mountain, Tuolumne, 50 cents.....Sale May 21
Tornado.....Meeting May 18
Tajo .....Qrtly Meetg June 5
Tesoro .....Qrtly Meetg June 6
Tesoro & James River Cons, R R, ...Sale June 10
Techattucup, Colorado, 40c .....Sale June 18
Techattucup, Colorado .....Annual Meeting June 1
Tranquillon, Fresno Co, 50c .....Sale May 28
Tecolota, San Dimos, Mex, $1 .....Sale June 14
Toleander, Hamilton, 25c.....Sale June 21

Umatilla, Reese River.....Annual Meeting May 17*
Union No. 2, Reese River, $1.....Sale June 4
United States, Virginia.....Sale May 25
Uncle Abe, Inyo, 50 cents.....Sale June 7
Utica, Angels Camp, $2.....Sale May 16
United Cosmopolitan, French Corral, 25c .....Sale June 7
Utah, Esmeralda.....Annual Meeting June 5
U S Tunnel, R R, $1.....Sale May 25

Virginia Hill, 50 cents.....Sale May 14
Valparaiso, Tuolumne, 4 assts, $3.....Sale June 4
Vivion, B S Springs, $1 25.....Sale June 6
Victor Hugo, Gold Hill, $2.....Sale June 30

Wm. Mitchel, Silver Mountain.....Sale June 15*
Wide West, Calaveras county.....Stockholders' Meeting May 31*
Wall Street, Reese River, 50 cents.....Sale June 18*
Walipi, San Francisco District.....Sale June 11*
Whitton, Silver Mountain, 50 cents.....Sale June 9*
Washington, Indian Bar, 50 cents.....Sale May 16
Weehawken, Devil's Gate.....Sale May 18
West End, Slate Mountain, 50 cents.....Sale June 20
White & Murphy, Virginia, $7.50.....Sale June 14
West Chance, Flowery, 37½ cents.....Sale June 13
Whitman, Indian Springs, $10.....Sale June 1
White Cloud, Virginia, $1.....Sale June 22
Willow Cons., Summit, $1.....Sale June 3
Whitlatch, R R, $5.....Sale June 24
Wellington, Santa Catalina, 25c .....Sale June 21
Wisconsin, Virginia, $2 .....Sale June 1

Yankee Blade, Reese River, $2.....Sale June 20
Yellow Jacket, Gold Hill.....Sale May 17
Yosemite, Reese River, 25 cents.....Sale June 4
Young Harmon, El Dorado .....Sale May 25
Yosemite, Oro Fino, $3 .....Levied Feb 9
York River, R R, ...Sale May 16
Yellow Monster, Inyo, 20c .....Sale June 20

Zenith, Mountain Ranch, 50 cents.....Sale June 18*

[The mining community begin to appreciate our reasonable rates of advertising, and are turning their patronage to the journal most properly entitled to receive it. The advantage to shareholders of having all mining notices concentrated in one mining journal, is obvious to all, and our terms have been established with a view to effect such a consolidation; and most companies having an object for publishing in any other particular paper, can consequently afford to have their notices appear in our journal also.—Eds. Press.]

Table Mountain Copper Co.—A splendid specimen of ore from this company's mine, weighing upwards of 600 lbs, may be seen at the office of J. J. Robbins, No. 609 Clay street. This company have now ready for market 100 tons of ore worth $60@$75 per ton, 40 of which is on the wharf at Stockton. They are now down 150 feet in two shafts, with a well defined lead, carrying rich ore. Twenty-four hands are constantly employed at the mine.

Gold in New York.

Friday, May 6.....174.
Saturday May 7,.....176.
Monday May 9 .....176½.
Tuesday May 10.....174.
Wednesday, May 11.....176.

Legal Tender Notes.

San Francisco, Friday May, 5.....61 per cent.

Morning Call Silver Mining Company, Wheeler and Rogers Ledge, No. 2, Big Creek District, Lander County, N. T.

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 11th day of May, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on the 14th day of May, 1864, in United States gold and silver coin, to the Secretary, No. 11 Government House in the City and County of San Francisco.

Any stock upon which said Assessment shall remain unpaid on Saturday the 11th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on WEDNESDAY, the 29th day of June, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale. EDW. QRACKENBUSH, Secretary.

Office, No. 11, Government House, cor. Washington and Sansome Streets, San Francisco. 20-4t

Ophir of the Colorado, No. 1, Gold & Silver Mining Company, Location of Claim, El Dorado Canon, Territory of Arizona.

Notice is hereby given that at a meeting of the Trustees of said Company, held on the 7th day of May, A. D., 1864, an assessment of fifteen (15) cents per share was levied upon the Capital Stock of said Company, payable on the 8th day of June, A. D., 1864, to the Secretary in U. S. Gold Coin,

Any stock upon which said assessment shall remain unpaid on the 8th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 20th day of June, to pay the delinquent assessment, together with cost of advertising and expenses of sale. RODNEY CLARK, Sec'y.

Office, San Francisco, No. 520 Washington Street, Room No. 13. 20-4t

San Francisco Stock and Exchange Board.—Prices Bid and Asked.

				Saturday.		Monday.		Tuesday.		Wednesday.		Thursday.		Friday.	
WASHOE STOCKS.	FEET.	SHARES.	VAL.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.
Ophir	1,400	16,800	300	1,025	1,050	1,025	1,100	1,050	1,100	1,050	1,150	1,110	1,150	1,175	1,185
Gould & Curry	1,200	4,800	500	3,700	3,900	3,850	3,950	3,750	3,900	3,800	3,900	3,800	3,900	3,825	3,900
Savage	800	800	2,000	2,100	2,250	—	2,200	—	2,200	2,075	2,100	2,000	2,050	—	2,050
Chollar	1,400	5,600	800	300	400	525	575	675	725	650	660	625	800	525	600
Potosi	1,400	2,800	500	600	800	575	650	625	700	650	—	625	—	860	1,000
Hale & Norcross	1,400	800	500	—	800	—	650	—	—	650	575	575	625	—	—
Sierra Nevada	3,000	3,000	500	37½	60	45	60	40	60	—	60	—	—	50	70
Daney	2,000	800	50	87½	90	85	90	75	78	70	70	65	80	62½	70
Burning Moscow	4,100	4,100	500	86	88	85	86	78	80	76	80	76	80	77	78
North Potosi	2,000	2,000	250	94	98	95	96	81	90	92	03	88	90	79	80
Charles Cany	1,800	1,800	30	—	—	—	—	—	15	—	—	—	—	—	—
Iowa	1,200	1,200	1,000	—	—	—	30	—	31	—	—	—	—	—	—
El Dorado	1,500	1,500	500	—	50	—	—	—	—	—	—	—	—	—	—
Norton	1,600	1,600	50	—	—	—	—	—	—	—	—	—	—	—	—
Burnside	2,800	2,800	500	—	12	—	—	—	12	—	—	—	10	—	—
Adriatic	2,700	2,700	100	9½	11	9	10	—	—	9½	—	9	—	9	11
Pride of the West	1,400	1,400	100	40	44	23½	27	26	28	25	26	25	30	20	22
Imperial	184	4,000	500	148	150	151	153	150	170	152½	155	152½	170	155	170
Crown Point	600	1,200	100	—	1,000	—	—	—	950	—	950	—	—	—	—
Manhattan	—	—	—	—	—	—	8	—	—	—	—	—	—	—	—
Seneca	—	—	—	—	20	—	22	—	20	—	20	14	20	20½	21
Mt. Davidson tun'l.	1,000	1,000	200	—	2	1½	2½	—	—	1½	—	—	—	—	—
Caledonia Tunnel	—	—	—	—	—	18	22	18	25	—	30	—	25	—	24
Bajazet & G. Era	4,000	4,000	300	—	26	—	29	—	27	—	30	21	22½	21½	30
Cedar Hill tunnel	—	1,000	100	—	—	—	—	—	—	—	28	—	—	—	—
Gold Hill Qu'tz Mill				—	—	—	300	—	—	—	—	—	—	—	—
ESMERALDA.															
Wide West	1,400	1,400	2,600	23	26	15	30	22½	26	22	25	22½	26	22½	24
Antelope	1,200	1,200	500	140	—	—	—	—	—	—	200	165	170	—	—
Esmeralda	1,600	1,600	1,000	—	—	—	—	—	—	2½	—	—	—	—	—
Real del Monte	4,400	4,400	400	61	51½	53½	54	47	49	48	50	43	44	48	49
Utah	1,600	1,600	250	25	40	—	—	—	—	22½	35	27½	35	29	32
Silver Hill	3,000	3,000	500	5	8	—	—	—	—	—	—	—	—	—	—
Nevada	600	1,200	250	—	—	—	—	—	—	—	—	—	—	—	—
Falls of Clyde	5,000	5,000	100	—	—	—	—	—	1	—	—	—	—	—	—
Bamboo	600	600	500	—	25	—	—	—	—	—	—	—	—	—	—
Crockett	—	—	—	—	—	—	—	8	10	8	10	8	9	—	—
Federal Hope	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Jenny Lind	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
COSO.															
Josephine	9,600	4,800	2,500	3	5	—	—	1	—	1	3	—	—	—	—
Willow Springs	2,700	2,700	100	—	—	—	—	—	—	—	4	—	3	—	3
Coso	2,600	3,600	600	—	—	—	—	—	—	—	10	—	—	2½	—
COPPER.															
Napoleon	2,700	2,700	600	65	80	—	—	—	—	—	—	—	80	—	—
Josephine	—	—	—	—	—	—	—	2½	—	5	0	5	6	4	—
CALIFORNIA.															
Laurel Hill	—	—	—	—	1	—	2	—	—	½	1	½	1	½	1
Rhues Diggings	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fellowes	2,500	2,500	100	—	—	—	—	—	—	—	—	—	—	—	20
Maxwell	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rock River	—	—	—	—	—	—	50	—	60	—	—	—	—	—	60
Eureka	—	—	—	37½	—	—	—	—	—	—	—	—	—	—	—
HUMBOLDT STOCKS.															
De Soto	1,980	1,980	100	31	33	—	—	25	35	30	35	30	37½	—	—
Great Basin	—	—		—	—	—	—	—	—	—	—	—	—	—	—

Record of New Incorporations.

The following is a record of the names of the companies, location of the claims, and the names of the Trustees mentioned in the articles of incorporation, filed in the County Clerk's office, in this city, since our last report:—

Swansea C. & S. M. Co., Arizona Territory; Eugene Crowell, E C. McComb, C. C. Chapman, A. M. Tichenor, R. H. Waller.

Cotopaxi S. M. Co., Gold Hill, N. T.; O. W. Easton, A. G. Randall, B. D. Dean. A. H. Jordan, James Harlow.

Wellington G. & S. M. Co., Santa Catalina Island; W. Ayer, C. W. Pool, G. E. Davis, B. F. Swan, Noble Lovely.

Pride of the Ocean G. & S. M. Co.; same as above.

Caledonia G. & S. M. Co., Santa Catalina Island; J. S. Curtis. T. J. Burke, James L. Crosett.

Brewer G. & S. M. Co., Amador county; E. S. Tibbey, William H. Payne, Wm. Hirschfield, J. G. Copp, F. A. Brewer.

San Salvador Commercial & Agricultural Co., San Salvador; J. McHenry, C. T. Fay, A. G. Gladding, V. B. Post, G. Dardano.

Center Copper M. Co., Nevada county, Cal.; Daniel McNell, S. H. Covert, E. W. Roberts.

Victoria Mining, Lumbering & Prospecting Co., Arizona Territory; Isaac Murray, E. L. B. Brooks, Darius Williams, S. McCullough, W. Muldrow.

St. Louis M., L. & P. Co., California, Nevada, Utah, New Mexico and Arizona; E. L. B. Brooks. A. F. Tilden, C. W. Langdon, E. V. Sutter, Wm. Muldrow.

Nugel and Tilden S. M. Co., Colorado district, A. T.; A. Nugel, T. Tilden, J. W. A. Gilmore, E. P. Peckham, A. F. Tilden.

Mochussa G. & S. M. Co., Sonora; L. Sylvester, Joseph Goldwater, Thomas Hopton, C. L. Jenkins, Henry Lampman.

St. Clair Consolidated M. Co., Reese River; F. L. A. Ploche, Jas. Phelan, Jacques Veiller, James Hunter, M. Kaye.

Provo Consolidated G. & S. M. Co., Santa Rosa district, N. T.; D. T. Berry, G. W. Damond, E. D. Farrington, J. M. Todd, S. R. Harris.

Columbian S. M. Co., Lander county, N. T.; W. E. Robinson, M. D. Howell, N. Proctor Smith.

Minnesota G. M. Co., Sierra county, Cal.; J. T. Bovee, Ed. Snell, J. E. Clayton, P. S. Hibberd and I. N. Thorne.

Lawrence G. & S. M. Co., Lander county, N. T.; John Dolbeer, R. W. Brett, Wm. Doolan.

Guilford G. & S. M. Co.; same as above.

NEVADA TERRITORY.

We gather from the Territorial papers the following names of mining companies which have recently filed papers of incorporation in Nevada Territory:—

West Burning Moscow G. & S. M. Co., Virginia district; A. A. Mace, W. Kessagu, F. A. Sawyer.

Sturgroon and Effingham Consolidated M. Co., American Flat; W. W. Bishop, C. C. McDonald, B. S. Nichols, Geo. C. Burnett, Wm. E. Hale.

Guardian G. & S. M. Co., Gold Hill district; A. C. Saxton, G. J. Cole, W. W. Coryell.

Taylor G. & S. M. Co., Gold Hill district; Wm. J. Taylor, C. S. Rees, W. A. Morrison, A. J. Rhodes.

DeWitt Clinton G. & S. M. Co., Gold Hill district; F. Downer, S. D. Young, S. H. Mather, J. J. Colfroth, H. V. S. McCullough.

Hathaway G. & S. M. Co., Gold Hill district; Thomas Peasley, A. Hecht, N. Solomon.

Clio G. & S. M. Co., Red Mountain district; Frank Park, W. S. Myers, George Stille.

Returns from Blue Mountain.—The Calavaras *Chronicle* says that the Heckendorn company have had another clean up at their mill, which proved even better than the first run. Owing to the low stage of water in that vicinity, the company have not been able to run even their four stamps all the time. From thirty-three tons of rock crushed, they took out ninety-six pounds and four ounces of amalgam. It is estimated that the rock will pay about $225 to the ton. This run settles the question. There can be no cavilings hereafter about Blue Mountain. It has proved a perfect success. We have as good silver mines on this side of the mountain, as they can boast of in the Territory.

The Alum Mine, in Monitor district, N. T., consists of a deposit from which a stream of water, strongly impregnated with alum, issues from a clay bank, and wherever the water stands it precipitates beautiful crystals. The deposit has not yet been prospected to any considerable extent.

City Stock Reports.

Sales of Mining Shares

For the week previous to Saturday, April 23, 1864.

By the San Francisco Stock and Exchange Board, Pacific Board of Brokers, Stock Exchange and the City Stock Exchange Board of Brokers

NAMES OF COMPANIES.	SHS. SOLD.	LOWEST.	HIGHEST.	CLOSING.	AM'T SOLD.
Ophir	84	1025	1185	1185	173450
Chollar	449	398	580	620	68283
Daney	80	82	90	82	1762½
Gould & Curry	6	3750	385	3850	5675
Imperial	30	150	150	150	5540
Real del Monte	781	44	62	50	37675
North Potosi	965	61½	100	80	7559
Savage	7	2050	2150	2050	11525
Meloues	175	30	31	31	4505
Baltic	110	95	115	105	7007
Lady Bryan	1445	37	42	36½	68435
Baltimore American	35	47	49	49	1695
Nevada, J. G.	60	70	75	73	2370
North American	330	146	160	149	31942
Buckeye	204	9	15	9	1907
Blue Ledge	272	17	23	20	3957
Caledonia Tunnel	62	19	20	20	1032
Adriatic	50	9	9½	9½	694
Pride of the West	474	30	42	25	13304
Burnside	20	7	18	7	125
Crockett	75	7	10	7	745
Harmon	120	18	20	20	2385
Crown Point Ravine	45	7	8	7	342
North Star	15	50	50	50	750
Green	20	4	8	5	115
Good Return	100	4	8	4	307
Burning Moscow	281	70	00	78	17329
Michigan, G. H.	10	50	50	50	500
Golden Age & Empire	70	29	33	30	5065
Silver Hill	19	5	5	5	95
Kohler Brothers	10	17	19	17	185
Uncle Sam	1	700	700	700	700
Beaver	10	4	4	4	210
Sacramento & Meredith	30	50	50	50	300
Defiance	50	6	7	6	270
Bullion	15	80	80	80	300
Josephine, Coso	50	5	5	5	125
Bajazette	8	20	21	21	145
Lancaster	30	10	11	10	320
Santa Rosa	65	2	4	4	177
Wide West	40	22	20	20	812
Coso	87	3	4	4	294
Antelope	5	165	165	165	825
Pine Leaf	99	7	7	7	616
Seneca	10	29	29	29	200
Utah	55	20	29	29	2340
Sides	5	125	125	125	625
Best & Belcher	5	460	460	460	2300
South American	140	5	5	5	700
Uncle, F. D.	21	3	3	3	63
Sheba	5	120	120	120	600
Ethan Allen	8	15	15	15	120
Leviathan	20	51	55	51	550
Owens	20	9	0	9	180
Potosi	8	600	535	635	1835
Melones Siuk	105	5	6	6	503
Yellow Jacket	1	800	800	800	800
Lafayette	60	3	3	3	220
Astor	10	4	4	4	40
Empross	25	7	9	7	185
Napoleon	12	82	82	82	990
Ben Franklin	5	4	4	4	20
Diana	1	12	12	12	12
Florence	45	47	55	55	1137
Washington	5	5	6	6	55
Sales for the week	.....	.....	.....	.....	552,954

Lumber.—The mills at Reese River are said to be hard at work, turning out lumber, from timber found on the surrounding hills.

Mechanical Department.

COLD WELDING.

Most of our readers are doubtless familiar with a fact which occasionally occurs, of the union of a spindle, while rotating rapidly, with the step in which it rotates, and by which union the motion of the spindle is of course instantly arrested. This union can take place only when there is no lubricating fluid present in the step, and only when the two surfaces are highly polished and, of course, very smooth. We have frequently heard the fact doubted by those who have not been familiar with its occurrence. The old system of plating was based upon this principle—that when two highly polished surfaces are forced in close contact by heavy pressure, they adhere and become one. Thus, in plating, a thin sheet of silver was made to adhere with great tenacity to a burnished surface of copper, when forcibly pressed together by being passed through the rolls of a flatting mill.

This process has been called "cold welding." By it steel may be welded to either steel or to soft iron. In Hecker's flouring mill, in New York city, the engine crank shaft is a heavy piece of iron, standing vertically, and to prevent the end upon which it rests from heating, it is placed in a deep step, in which are several smooth plates of steel, which distribute the friction by slowly revolving, one upon the other.—It occasionally occurs that these plates, when the lubricating material has been pressed from between them and become loose in the step, are found welded together so firmly that they cannot be separated even with a cold chisel.

A company has recently been established in Paris for the purpose of drilling, drawing and welding metals, a large part of whose operations are founded upon this principle of cold welding. Gun barrels are made by them, by drawing a succession of tubes one over the other, all having highly polished surfaces, by which process the barrel is made up of a homogeneous mass, cold-welded together, and forming a gun of great strength and exceeding lightness. The French government have ordered 50,000 rifle barrels made by this process.

Steel tubes may be made after this manner of almost any desirable length or size. Ten-inch guns, or even larger, may be thus made, vastly lighter and much stronger than any heretofore manufactured.

It is noticed as a singular fact that the temperature of the iron is scarcely raised to a sensible degree by the operation of drawing, provided the surfaces are perfectly smooth. But if the slightest scratch or abrasion occurs, the temperature is at once raised eighty or ninety degrees. This fact is looked upon as quite a phenomenon, inexplicable by any known laws, and suggestive of a new principle in the laws of heat. There are probably many uses yet undiscovered to which this principle may be applied, not the least of which is that already applied in the hooping of journals. The steel being perfectly homogeneous, and quite devoid of fibre, journals thus prepared, when in use in a good brass bearing, acquire a surface of surpassing smoothness, and revolve with so little friction as to be practicably indestructable.

Prof. Hofman of London has patented a process for making a new coloring matter by means of iodine extracted from seaweed, and which produces a beautiful violet, blue violet, or red violet. The patented process consists of mixing in certain proportions the substance called rosaniline with the iodides of ethyl, methyl, or amyl. This dye may be used in the same manner as the aniline colors, and is already in the hands of practical people in all the manufacturing districts, and bids fair to be the "color of the season."

Santa Cruz is getting to be one of the great manufacturing counties of the State—powder and paper mills, lime kilns, lumber mills and tanneries, are all at work there, and others still in contemplation.

A Whim of a New Pattern.—On the Ponce de Leon claim, in the northwest portion of Virginia City, according to the *Enterprise*, a little north of the new Ophir shaft, is to be seen a whim of a new style. This whim is the invention of Mr. John W. Wedlock, and is thought to be superior in some respects to the whims in common use. The drum revolves horizontally, and by means of small wheels on the shaft passing through its centre, is driven by a larger cog-wheel, on an upright iron shaft, to which the horse is attached by a lever. The horse travels one way round all the time, the change in the motion being effected by throwing the small wheels in or out of gear, they being on a sleeve, sliding on the shaft of the drum. There is also a brake attached to the drum, which is worked by a lever in precisely the same manner that the brake of steam-hoisting works is operated. The apparatus appears to work very well, though being the first machine of the kind ever erected here it is not perfect in every particular, but the fault in this can be remedied in the next one erected. The castings are rather light and there is so little room between the beams, above and below the drum, that the cable, sometimes—when it happens to ride by wrapping up unevenly—catches against the beams and stops the machine. This fault, however, is easily remedied. We understand that the inventor has taken steps to secure a patent. The cost of the apparatus, wood-work and all, is about $1,400. Another machine will be erected shortly on a claim in this vicinity.

A Railroad Across the Andes has been projected by Harry Meigs, formerly of this city, and now of Valparaiso, Chile. The project is a grand, and at the same time pronounced a feasible one. Its object is the connecting of the inland valleys of Chile with the immense plains of the Argentine Republic. The projected railroad would have an extension of only eighty-seven miles, an elevation of six thousand six hundred feet, would cost eight million dollars, and require four years to build it, offering no great difficulties to engineering. It ascends the valley of the river Teno, in Chile, and after crossing the mountains descends into that of the Rio Grande, one of the tributaries of the Rio Negro, which forms the frontier between the Argentine Republic and Patagonia. The report says that only two points require extraordinary works; one, a narrow gully of the river Teno, eleven miles long and only thirty feet broad, and the other a ravine, with an ascent of four hundred and fifty feet per mile, six miles long. Both these difficulties are not insuperable to modern engineering, and the great obstacle offered by the mountains between the Teno and the Rio Grande is avoided by the discovery of a new valley in the very heart of the Andes.

Mining Machinery.—We saw yesterday at the Marysville Foundry something new—at least new to us. It was what is called the Conveyor Screw, which, when boxed and put into its place in the mill it is designed for, will convey dry-crushed quartz from the battery to the amalgamating pans. The screw is 125 feet long, and is intended for the Silver State Reduction Works, at Empire City, N. T. Its cost is about $1,000. It is worth seeing, and we advise the curious to take a look at it before it is shipped. We cannot describe it without diagrams; but we can say it looks like a tremendous copperhead. While at the Foundry we also saw five or six tremendous bed plates for as many 60-horse power engines, which are being manufactured to fill Washoe orders. Two of these engines were for the Manhattan mill, and one for the Atchison mill, at Washoe City. A large number of hands are engaged at these works, in plodding at all the various branches—some moulding, cleaning castings, planing, boring, etc. The Marysville Foundry is a busy place about these days.—*Marysville Appeal.*

Sale of a Railroad.—The section of the Auburn railroad from Folsom to Auburn Station, a distance of twelve miles, was sold, on Saturday last, to satisfy a mortgage. The original claim was $183,566. It was bid in, for the mortgagees, for $75,000. The track is to be torn up immediately, and the iron and other material will be used to extend the Placerville and Sacramento Valley Railroad from Folsom to Latrobe, formerly Miller's Corral. A town has recently been laid out at that point, to which the Placerville road has been graded, and there, for some time, will be the easternmost station of the Placerville and Sacramento Valley Road.

Compromised.—The suit between the Baltimore American and the Oneoto Company, in Judge Atwill's Court, has been compromised without a trial, as it was shown that one of the parties litigant was laboring under an evident mistake.

Japanese Art.—In all the mechanical arts the Japanese have unquestionably achieved great excellence. In their porcelain, their bronzes, their silk fabrics, their lacquer, and their metallurgy generally, including works of exquisite art in design and execution, I have no hesitation in saying that they not only rival the best products of Europe, but can produce in each of these departments works we cannot imitate, or perhaps equal. It is quite true that Europe may also make a similar boast with justice. There is much, especially in art, so called, to which the Japanese cannot make the slightest pretensions. They cannot produce, by any effort, works to be compared with the noble specimens of Repousse carving, from the chisel of a Vechte, a Morel Ladeuil, or a Monti, which the great International Exhibition showed; yet the Japanese bronze castings are, some of them, scarcely inferior in skilled workmanship and mixture of metals to anything we can produce of the same kind. No Japanese can produce anything to be named in the same day with a work from the pencil of a Landseer, a Roberts, or a Stanfield, a Lewis, or Rosa Bonheur, whether in oil or water colors; indeed, they do not know the art of painting in oils at all, and are not great in landscape in any material. Their knowledge of perspective is too limited, and aerial effects have scarcely yet entered into conception. But in figures and animals, I have some studies in Indian ink, so graphic, so free in outline and true to nature, that our best artists might envy the unerring touch and pencil so plainly indicated. In the rendering of animals, whatever the material employed, they seem to have studied not only the mere forms, but the habits and character of each with such accuracy and closeness of observation, that they gain a perfect mastery over their subject, and by a few lines and dash of the brush produce a faultless imitation of nature. This is especially true of the stork, the emblem of longevity, and nearly as much admired by the Japanese as ever was its kindred ibis in Egypt. Hence, on porcelain, lacquer, in enamels, on ivory, in *basso relievos*, in steel and iron, in bronzes, it is everywhere to be met, and with a marvelous perfection of workmanship and artistic power.

Gold Yield of Australia.—A letter in the London *Star* from Melbourne, Australia, says the yield of gold for the year 1863 has not been quite equal to that of 1862. There is a deficiency in the total yield of 20,000 or 30,000 ounces, but the increase of machinery, and the improved processes for saving gold, promise better for the present year. The deep lodes of Ballarat still prove to be very rich. For an example, the Koh-i-noor Company lately washed out 459 ounces of gold in three days, and declared a dividend of £60 per share for ten days' work. During the year the total clearances of gold amounted to 1,985,501 ounces, of which 1,634,377 ounces were from Victoria, and 364,124 ounces were transhipped from New Zealand. The clearances during 1862 were 2,029,839 ounces—1,711,508 ounces being from Victoria, and 308,331 ounces from New Zealand.

Genesee Valley.—The Quincy *Union* says that the Genesee portion of Plumas county is full of life and excitement. A new town has been laid out near the mouth of Grizzly Creek, and a saw mill, boarding house, and several other buildings are in process of construction. Laufman & Co. will have their Copper Smelting Works in operation during the month of July. All of the surface claims on Grizzly and Genesee creeks are paying well. "Feet" in the copper ledges have advanced considerably in price during the past two weeks, and quite a number of feet have been purchased during that time by San Francisco capitalists. The same paper says the Crescent Mill, in Indian Valley, for a run of eight days, cleaned up over $9,000. A few more such runs as that and the Company will be prepared to declare another $50 dividend.

A New Mint for San Francisco.—The telegraph announced, on Wednesday, that the bill appropriating $300,000 for the erection of a Branch Mint in this city, passed the Senate on the day previous.—The site selected is the western half of the Custom House block.

The Kings River Mines.—The Visalia *Delta* speaks encouragingly of the placer mines of that region, particularly of the Sheba diggings, where there are about twenty sluices at work, and many getting ready; are making from $1 to $17 to the man. The extent and richness of the mines are but little known; water will hold out a month or more longer.

The American copper-toe shoe has been introduced into use in England.

Patent Department.

The Bartola Patent.—Mr. Bartola, to whose process for working sulphurets we referred at length last week, has recently taken out a patent for "An Apparatus for Concentrating Ores" (probably sulphurets). We have no further description of this apparatus than the following:

I claim the movable grating or gratings, d, applied to the inclined plane or trough of ore-concentrating apparatus for the purposes and substantially as specified.

I also claim the bars or slats, 1, 1, formed deeper at the lower end of the grating than at the upper, for the purposes and as specified.

Improvement in Stamp Shoes.—The Esmeralda *Union* says that Mr. G. W. Coffee, of the Union Foundry, at Aurora, has made applications for a patent for an important improvement in the casting of stamp shoes, which is made by first casting a very small shoe, which, after it is cold, is set up inside of a cast iron chill, or mould, and the large shoe cast around it. The advantage of this method is that the metal cools both from the inside and outside, leaving no chance for the hot metal inside to shrink and crack after the outside is cold. Another advantage is that the iron after cooling is left much harder than when cast in the ordinary way. We are informed that some shoes cast on the above plan in the Union Foundry have been running steadily for ten weeks in the Bodie mill, whereas the average duration of shoes cast on the old plan is about five weeks.

A New Sawing Machine.—A late Montreal paper speaks as follows of a new sawing apparatus, which the inventor calls the "Locomotive Cross-cut Sawing Machine:"—"It is intended for cutting cord-wood and all kinds of horizontal and cross-cut sawing. On seeing it work, we came to the conclusion that its effectiveness in operation was only equalled by the simplicity of its construction. The machine consists of a frame two feet wide by six feet long, upon which is mounted a large wooden pulley or multiplying wheel, forty inches in diameter, a band from which passes over a pulley, upon the axis of which is placed a fly-wheel. In this manner motion is given to a crank which gives the saw a horizontal movement in any position; the rollers being capable of being raised and depressed as required. Two saws can be attached to the machine, if necessary, and it can easily be worked by boys, while two men by its aid could cut a cord of wood in an hour. The machine is a Canadian invention, being patented in Canada, June 9th, 1863. A patent has also been taken out at Washington."

Head Rest.—Mr. Ephraim Hambujer, of Detroit, Michigan, has received a patent for a head rest for use in railway-carriages. The invention consists in a self-fastening spring clamp capable of being attached instantaneously to the back of a car seat or any other similar article, and provided with a stationary and with an adjustable socket, in combination with a vertically adjustable pad, in such a manner that by fastening the clamp to the back of a chair or seat of any other description, and inserting the pad in either one of the sockets, the pad or head-rest can be readily accommodated to the desired position and to the stature or size of the occupant of said seat, and a convenient and comfortable rest for the head is obtained.

An improvement for protecting engraved plates has been introduced in France by Chardon, which invention consists in covering the plate with a very thin layer of iron, by means of the galvanoplastic process. The deposit is so fine that the finest lines of the engraving are found to be exactly copied. When the thin iron stratum becomes worn, it can be replaced by plunging the plate in an acid which will dissolve the iron without attacking the copper; and thus the plates may continue to be used for an indefinite period.

Brush for Cleaning Boilers.—G. P. Leonard and William Lauster, of Fall River, Mass., have patented an apparatus for cleaning boiler flues, which consists in a brush made of flat pieces of wire or narrow strips of thin metal, which are passed through a stem formed by doubling up a piece of wire or strip of sheet metal and fastened by a thin round wire wound round the same in such a manner that by said binding wire a hollow stem is formed, and after the whole has been secured together and twisted, a handle can be introduced into one end of said tubular stem, and the brush is ready for use.

Water Elevator.—The Alpine *Chronicle gives* the following description of a novel water elevator now in use at Diamond Hill, on the East Fork of Carson river, and employed to draw water from that river:—"A half-inch wire 180 feet in length is set on posts running from the road down to the river, at an angle of thirty-five degrees. At the upper end is a wheel, two feet in diameter, with a crank; to the cord on the wheel is attached the car, a board one foot in length and eight inches wide, which is connected to the wire by two sheaves. When you wish to draw water, you hang the pail on the car by a spring hook, starting the same down the wire to the river; the pail fills itself without any trouble. By turning the wheel the car with its load comes up so easily that a child could raise it. It is called the Railroad and Telegraph Water Raiser."

The Iron Foundry at Aurora, Esmeralda, appears to be in a flourishing condition. The proprietor, Mr. Coffee, says that he can melt iron in Aurora in less time and with ten per cent. less coal than in any other place he ever worked. This is probably owing to the rareness of the atmosphere, as for the same reason, water can be boiled at this altitude with several degrees less heat than is necessary at ocean level.

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. The Mining and Scientific Press Patent Agency has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

The Mining and Scientific Press Patent Agency.

OFFICE, 57, GOVERNMENT HOUSE, SAN FRANCISCO.

Information About Obtaining Patents.

The Patent Law Amendment Act, of March 4th 1861, and March 3d 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be witheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent? A positive answer to this question is only to be had by presenting a formal application for patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the columns of the Scientific Press. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Preliminary Examinations.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search made at the U. S. Patent Office, Washington, through the medium of our associate in that city, to ascertain whether among all the patents and models there stored, any invention can be found which is similar in character to that of the applicant. On the completion of this special search we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollars. This search, though it involves the expense just named, will usually prove satisfactory. If the same device has been before patented, the time and expense of constructing models, preparing documents, etc., will in most cases be saved; if the invention has been in part patented, the applicant will be enable to modify his claims and expectations accordingly. Many other obvious advantages attending the Preliminary Examination; although the strictest search does not always enable the applicant to know positively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publication; or some other person has been previously rejected on an analagous device; or some other invention for a similar purpose, but partially resembles the applicant's in its construction; or the Government makes an unjust or uncommon decision. Against none of these contingencies does the Preliminary Examination provide; it will, however, generally inform the applicant whether an improvement similar to his and used for the same purpose has ever been patented or not in this country.

Persons desiring the Preliminary examination are requested to remit the fee ($10), and furnish us with a sketch and description of the invention.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian, Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of governments that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues.—If the application is rejected we cause a thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have excess to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client. For this service we make no charge. If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by conducting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The laws requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimensions; it should be neatly made, of hard wood or metal, or both varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: Dewey & Co., Mining and Scientific Press, rooms 56 and 57, Government House, corner of Sansome and Washington Streets, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail.—The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and allidavit, with a letter of instruction, etc. Our fee for preparing the case is then due, and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued, the applicant will be notified to remit the last installment of the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months and even more. We make a special point to forward our cases as rapidly as possible.

Return of Models.

Under the new law, if the applicants case has been rejected he is entitled to withdraw his model from the Patent Office.

This new applies to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expense

Application for Patents, Designs, Trade-Marks, Labels, etc.

Under the new law patents may be taken out for any new form of any article, also for tools, patterns, castings, machine-frames, stove-plates, borders, fringes, all new designs for printing, weaving or stamping upon silks, calicoes, carpets, oil-cloth, prints, paper-hangings, and other articles. Trade-marks, labels, envelopes, boxes and bottles for goods, may also be patented; likewise all works of art, including prints, paintings, busts, statues, bas-relief, or compositions in alto, or basso relievo, new dies, impressions, ornaments to be placed upon any article of manufacture, architectural work, etc.

Our facilities for the prompt preparation and securing of patents are of the most extensive character and our charges are very moderate.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the tariff of fees established by law:

On every application for a design, for 3 years and six months...	$10
On every application for a design, for seven years.....	15
On every application for a design, for fourteen years.....	30
On every caveat.....	10
On every application for a patent.....	15
On issuing each original patent.....	20
On filing a disclaimer.....	10
On every application for a re-issue.....	30
On every additional patent granted on a re-issue.....	30
On every application for an extension.....	50
On the grant of every extension.....	50
On appeal to the Commissioner from Examiners-in-chief.....	20
On every appeal to the Judges of Circuit Court, D. C.....	25

Infringements.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunction from the Court, to an arrest of or prohibition from the employment of his machinery, shop, works, factory and men in production of the article.

In addition to injunction the infringer is liable to be mulched in treble the amount of damages awarded by the jury. The maker, the workman, the seller, and the purchaser, if a user, are all liable either collectively or individually.

Having access to all the patents, models, public records, drawings and other documents pertaining to the Patent Office, we are prepared to make examinations and give opinions upon all infringement questions, advise as to the scope and ground covered by patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Appeals.

In rejected and other cases, the new law provides for an appeal from the Examiner-in-chief to the Commissioner in person, on the payment of a fee of twenty dollars. A further appeal may be taken from the decision of the Commissioner to the U. S. Court, of the District of Columbia. These appeals are heard by any of the Judges before whom the applicant elects to bring the case. No Jury. All the papers, models, etc., are sent by the Commissioner to the Judge, who then reviews the case, and either sustains or reverses the Commissioner's decision.

The party taking the appeal pays an additional fee of twenty-five dollars. The Judge appoints a day of hearing. The applicant can appear in person or by counsel to state his case and file a written argument. Five days are allowed the opponent to put in an answer, and a similar period to the appelant for a closing reply.

Many important cases are brought before the Judges on appeal and the decisions of the Commissioner are not unfrequently reversed. We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

DEWEY & CO., Agents,

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San Francisco:

Saturday Morning, May 14, 1864.

SILVER MINES IN CALIFORNIA.

The idea which, until recently, was prevalent that paying silver mines will never be found on this side of the Sierra, is fast being dissipated. Recent developments in Calaveras, Amador and Tuolumne counties appear to have quite effectively settled the question. We have never seen any reason assigned why silver might not he found on the western as well as the eastern slope, other than the simple fact that gold has constituted, for years, the only precious metal which has been found, to any extent, on this side. The fact that much of our gold is strongly alloyed with silver, appears to have been entirely overlooked. Much of the gold taken out in Calaveras county assays as low as twelve and fourteen dollars an ounce, owing to the large quantity of silver which it contains, and generally, the higher up in the mountains of Amador, Calaveras and Tuolumne, the gold is taken out, the larger is the percentage of silver returned. The mines of the Blue mountains yield a large percentage of silver. Silver is also found in the upper portions of Plumas, particularly in the vicinity of the copper mines. We have seen splendid specimens of copper from that region, carrying native silver in connection with the copper.

We last week alluded to an interesting discovery of silver in the Oriental copper mine, Amador county, the concentrated sulphurets from which yielded $1,756 in silver, and $240 in gold. We have since received a letter from Rev. I. B. Fish, one of the proprietors of this mine, in relation to this strike, which reads as follows:—"I find in our mine—south drift, 140 feet from surface—a solid vein of silver rock, such as I showed you, four inches thick, and then silver sulphurets, thickly diffused through three or four feet of quartz gangue; all underlying a lode of yellow copper ore, averaging one foot thick. The silver at present predominates. We shall soon test two or three tons of the silver ore."

We were shown, a few days since, some beautiful specimens of native silver from the mine of the Salt Spring Valley Co., located three miles north of Copperopolis. Our traveling correspondent, as long ago as last December, writing of this mine, said:—"If in so essentially a copper formation as this district is, it is possible for a silver lode to exist, this must be one." A lot of rock from this mine was sent to this city about that time and tested for silver; that metal was found, but not in paying quantity. Work, however, has been continued, and of late, with most gratifying success. They have recently had another crushing, with what precise results we do not know; but quite sufficient to raise the expectations of the company to a higher pitch than ever.

Native copper, containing native silver, is also found in the New Era Copper Mining Company's claim, on Don Pedro's Bar, in Tuolumne county, fine specimens of which have been exhibited in this office.

INSURANCE DEPOSIT.—The branch office of the Phœnix Insurance Company, of Hartford, Conn., has deposited the sum of $75,000, in compliance with the provisions of the Amendatory Act regulating insurance companies in this State. This is one of the oldest and best established insurance offices in the country. Office in this city, 603 Commercial street.

MINING SHARE MARKET.

The Mining Share Market is suffering a season of most unusual depression. Even stocks whose intrinsic merits are beyond question have been seriously affected by the prevailing apathy. But few stocks are sought after or offered, and those that are heard from are chiefly of low price. This condition of things is attributable to a variety of causes already well known. The panic will undoubtedly be but temporary, and we may soon look for a reaction. Prices have probably already reached their lowest limit.

The principle transactions of the week have been confined to the Chollar, Real del Monte, North Potosi, and Lady Bryan. Chollar has been largely dealt in at an important advance, based upon highly favorable reports from the mine. Ophir is also beginning to show some evidences of improvement; North American has been well maintained; North Potosi has been active but at fluctuating rates. Pride of the West has met a most important decline, for reasons elsewhere given.

We would refer readers to our tabulated statement of the business of the week and to our editorial columns for much of interest in relation to stocks and mining matters generally.

THE IDAHO MINING MANIA, like all which have preceded it, is destined to prove another gull trap to catch a large portion of the foolish adventurers who run after everything in the way of mining excitement. Thousands of people who have left comfortable quarters with merely enough money to reach that distant region, will soon find themselves destitute and in want, with no prospects ahead but charity or starvation. Idaho will soon present just such another scene as Fraser river did a few years ago. Like all other mineral districts, it without doubt has its rich veins of quartz and rich placers; but they are not to be found on every hill-side or in every gulch. As well might all California go crazy and rush to Grass Valley because two or three rich strikes have recently been made there. We have talked and written warnings against every mining excitement since the rush to Gold Lake, in 1850. Scores of others have done the same, but all to no purpose. These excitements are periodical and inevitable. They are usually started and fostered by heartless speculators, and always find plenty of dupes, who are anxious to part with their money in an eager chase for some supposed El Dorado, no matter where, if it is only a little way beyond any given region of known value.

THE AMERICAN FLAT MINES still continue to occupy a large share of attention. The EXPRESS COMPANY are taking out some very fine rock. Their shaft is now down 130 feet, the last 60 of which have been driven through quartz filled with sulphurets, and bearing a strong resemblance to the Imperial rock, of Gold Hill. They are expecting to strike pay rock soon.

THE ROCK ISLAND is one of the oldest locations on American Flat. The first work upon this mine was done in 1860; but owing to financial embarrassments but little was accomplished until the more recent developments on the Flat, the past season. They have now two tunnels, one in 500 feet and another shorter one. A shaft is under way which will strike the shorter tunnel at a depth of 270 feet. The mine discharges a large quantity of water, some 70 inches now running from the 500-foot tunnel. This tunnel has already been pushed some 60 feet into a ledge of quartz, which is thought to be 100 feet thick. Of the quality of the ore we are not advised, further than it resembles that taken from the Holmes mine, Gold Hill.

THE butter dealers in New York recently combined, and raised the price of butter to fifty-three cents a pound. In Boston it has been as high as sixty-five cents.

WASHOE STOCK MARKET.

Review of the Week Ending May 9th, 1864.

The period under present review has been even more dull than any which has preceeded it, while the sales have been exceedingly small and insignificant. But few stocks have been sought after or offered. The "bids" and "asks" have been wide apart, and have afforded very little evidence of the actual value of the stocks presented. The following are the transactions of the week:—

Twenty shares of Arizona from $7½@9; Atlantic, 15 at 3½.

Birdsall, 5 at $6; Consolidated Brotherhood, 15 at 75 cents; Combined Effort, 5 at 4½; Colorado, 10 at 4, and 10 at 4⅛; Diligent, 5 at $1; Golden Swan 10 at $6.

Harold and Argo has been more dealt in than any other stock, at prices ranging from $4@7¾, closing at $7; 242 shares have changed hands since our last report.

Jewett & Sheppard opened at $27 and gradually advanced to $30, Monday, but declined the next day to $27¾; 60 shares have changed hands. Judge Advocate has met with a single purchaser at $1.

King Solomon opened at $1¾ and closed at $1¼, sixty shares having changed hands. Kentucky found a single purchaser of 9 shares at $4½.

Knickerbocker has sold at from $32½@34½, closing at the former figure; 27 shares Kossuth sold at $8¾.

Leopold is quoted at from $7@7½; Lafayette, 20 shares at $8.

Nine shares Moray sold for $4; Mother Lumpkins has sold from $1¾@2, eighty shares having changed hands.

New Orleans, 30 shares changed hands at from $1@1¼; Naragansett, 100 at 50c.; North Whitman ,10 at 50c.

Pony Express opened at $4 and advanced to $7, with sales of 70 shares; 10 shares Platt & King at 75c.

Randolph has met with considerable business at fluctuating rates, 120 shares having changed hands at from $7½@9.

Rock Island has been quite uniform, sales of 49 shares having been made at from $29@30½; 25 shares of Randolph sold at $8: 75 Rich at 50 cents.

Thirty-five State of Maine sold at 50 cents; 5 of Sutro at 4; 15 shares of Yuba sold at $2¾ and 30 at $3; seven of Sante Fe at $8; ten of Spring Valley at $7; six West Point at 50 cents; 25 San Francisco at 7½.

A SUBMARINE BOAT has been built at La Rochelle. She carries a spur at her bow which is formed like a tube, and an incendiary shell may be placed in it. Should the enemy's fleet be at anchor, the Plongeur will drive her spur into the nearest ship, then retreat, unrolling a metallic wire. When at a safe distance an electric shock will cause a great explosion, the enemy's ship being blown up.

PIONEER STOCK BOARD, REESE RIVER.—The Reese River *Reveille* gives the following as the proceedings of the Pioneer Stock and Exchange Board at their meeting on Monday, the 2d inst:

REESE RIVER DISTRICT.—Maggie, $75 bid, $75 asked; Marion, 10 asked; Smith & Martin, 7½ asked.

AMADOR DISTRICT.—Chapman, 5 asked; Rough & Ready, fifty asked; Wildwood Tunnel Company, 5 asked.

SMOKY VALLEY DISTRICT.—Mountain Company, 10 asked.

BUNKER HILL DISTRICT.—Brown, 15 asked; Real del Monte, 15 asked.

MISCELLANEOUS CALL.—Isabella, fifty asked; Stephen A. Douglas, 8 asked; McMannis, 10 asked; Oregon Mill and Mining Company, 1000 asked; Murphy, 4 asked; Cox and Rose, 5 asked; Black Ledge, 5 bid; Amador, 150 asked; Sinaloa, 3 asked; Washington 4 bid; Joe Lane, 5 bid, 10 asked; Fox and Robinson, 1 asked; Wm. B. Astor, 4 asked; Ethan Allen, 20 asked; Mammoth Tunnel Company, 4 asked; Oseeola, 7 bid, 15 asked; Hidalgo, 5 asked, Daeota, 6 asked; Warner and Wells, seventeen and a-half asked; Lapine Tunnel Co., 5 asked; Byron, 25 asked; Fort Sumter 8 bid, 13 asked; Scotia, 3 bid; Coral 30 asked.

SALES.—Five feet of Maggie at $75 per foot.

Mining Gossip.

EDITED BY.....FRANK WARDDELL.
FOR THE MINING AND SCIENTIFIC PRESS.

Mysterious Feature of the Week.—One of the leading and really the most mysterious features of the week, has been the sudden and great depreciation in the Pride of the West stock, which, many say, is attributable to the neglect of some of the officers who have charge of the financial affairs of the company at the mine, in communicate to the officers in San Francisco. This neglect is, to say the least, condemnatory, and should not once be enquired into. If any fault is attributable to any one of the said officers, his removal should be strenuously urged. This silence on the part of the officers has caused many heavy losses; many holders of the stock having sold at greatly reduced prices in consequence of the uncertainty as to the condition of the mine. We have enquired at the office of the Secretary, and find that officer about as much in the dark as the stockholders. He remarked to us that he had telegraphed and written, but all to no purpose. We recommend a meeting of the Trustees of this company without delay. Let them take such action as will enable stockholders in future to obtain all information which may concern their interests. It is about time that these *exceedingly curious doings* in mining companies should be done away with, and affairs conducted more on the "square."

Lively Times.—We learn that the selling and buying of "feet" has become all the rage in New York City. They have two boards under full headway, and the people take as lively an interest in "feet" there as we do here. Stocks of all descriptions are commanding fair market rates, and the "bulling and bearing" system is also brought into active play. How long this new species of speculation will continue, it is difficult to tell; but we suppose, like everything else, the market, in the course of a few months, will be completely loaded with worthless stocks, and then a general collapse and wind up will ensue. Stand from under, gentlemen, when the crash comes.

Important Mining Suit.—In the Twelfth District Court, on the 10th inst., the Commercial Mining Company brings a suit against Chester Gillespie, to obtain a division of certain property. It seems there are nineteen thousand two hundred feet of mining ground, situated on Santa Catalina Island, owned by the parties, of which the defendent owns one-sixteenth. The said parties do not agree upon the mode of working and administering the business affairs of said mining claims, and the defendent refuses to pay his proportion of the expenses. The plaintiff therefore asks for a judgment partitioning said property between plaintiff and defendent.

The Chollar Company.—A large number of sales have taken place in this stock during the past week, and in most cases at advanced market figures. It is reported that a well defined lead of rich ore has been discovered; many are also under the impression that a modification of the recent decision will permit the company to re-open their lawsuit against the Potosi. The manner in which this once sadly-depressed stock is gradually advancing must be a great consolation to those owners who are still holding at the old high rates.

Something Like.—Mr. John D. Winters, a gentleman well known in the community as having obtained a large fortune from mining operations, advertises for sealed proposals, for the erection of a private residence, near San Jose, to cost $80,000. He is what may be termed a lucky Washoeite indeed, and furthermore, we should judge from appearances that he intends to have the comforts of this life, at all events.

Taxes.—The taxes in Tuolumne county amount to $3 81 on $100. The total County tax is $2 56.

Greenbacks.—A large quantity of greenbacks have changed hands, both at public and private sale, during the week, at fluctuating rates.

Injunction.—The Gould & Curry Company commenced an injunction suit against the Potosi Company, and obtained a restraining order until the 14th inst.

Bullion.—The amount of bullion shipped from Aurora from the 1st of January to the 1st of May was $428,300.

Gould & Curry.—This stock has fallen, much to the astonishment of our brokers. There is no cause for it whatever, aside from the general depression of the stock market.

Mass Meeting.—A mass meeting was held at Virginia City on the 10th inst, for the purpose of expressing the views of the people respecting the tax to be levied upon the income of mines.

Rich Rock.—Very rich rock has been discovered in the Nonpareil mine, situated at Big Oak Flat, in Tuolumne county. The rock is said to equal in richness any ever taken out of a mine in California.

Dividend.—The Trustees of the Eureka Gold Mining Company have declared a dividend of 1½ per cent. on the capital stock of the Company, which was payable on Thursday, May 12th.

Improvement.—The Hale & Norcross Company are putting up a new building over its mining works. The frame is nearly all put together, and is seventy feet long by forty wide. It will make a fine appearance when completed.

Powder Works.—The California Powder Works, located at Santa Cruz, have commenced operations. They intend only to manufacture blasting powder at present, and they estimate that they can easily turn out five thousand pounds per day.

Truthful.—"A smooth sea never made a skillful mariner;" neither do uninterrupted successes qualify a man for usefulness or happiness. The storms of adversity, like the storms of the sea, arouse the faculties, and incite the invention, prudence, skill and fortitude of the voyager.

On the Buy.—Several parties are on the way here from the East, with the intention of purchasing mines and incorporating the same under their respective laws at home, and disposing of the stock there. They represent some wealthy houses.

Improving Slowly.—Mr. W. P. Denekla, President of the Pacific Board of Brokers, we regret to say, is improving rather slowly. He had a relapse on the evening of the 8th inst. We were in hopes to have seen him among the busy throng long ere this.

A Dull Week.—The past week has been a very dull one; little or no animation having exhibited itself in stocks. It is to be hoped that a change, and that for the best, will soon take place, Brokers, keep up your pluck, for the old adage says "that it is always darkest just before day."

Departure.—Mr. T. J. Williams took his departure on the steamer J. L. Stephens, on the 10th inst. Mr. Williams is superintendent of the Otate silver mine, situated in Sonora, Mexico. He takes with him a large quantity of machinery, and, in fact, every requisite to thoroughly work this mine. He is an energetic young man, and well posted as to his duties as superintendent.

Appointment.—Mr. Henry F. Parain, a young gentleman well known to the mercantile community of this city, has received the appointment of Assistant Superintendent of the Sweet Vengeance G. & S. mine. We are given to understand that this company are hard at work developing their lead, and have now over fifty hands employed. Mr. Parain has had much experience in mining matters, and a better selection could not easily have been made.

The Amazon Tunnel and Mining Co.—We have received the first quarterly report of the officers of this Company, from which it appears that the total amount of stock issued is 1,690 shares, leaving unissued 310 shares. Three assessments have been levied, from which $2,410 have been realized. With this money a tunnel has been run 111 feet, 96 feet of which has been through hard granite. They have a good track and car, and a general assortment of mining implements. The expenses of incorporating, printing, surveying, recording, etc., have also been paid out of the amount received. The superintendent thinks he is close upon the ledge. The affairs of the Company are prosperous and encouraging.—Reports of this character should be made by every incorporated company. It is due the shareholders that they should thus be informed of the prospects and progress of the Company in their work of development. The cost of such reports is trifling compared to the benefits to be derived therefrom. No company should hold a standing in the market that neglects to take proper measures to make known to its stockholders, at stated intervals, its financial condition.

Stocks in New York.—A correspondent writing from New York, remarks respecting the condition of the stock market, and more especially on the 9th of April, when the Legislature had all the bills "killed" whose objects were for running Broadway railroads. In fact the correspondent states that during the past week the stock market was crazy, and goes on to say that Fort Wayne, Harlem, Reading, and so on, bounced up and down in such a manner that fortunes were made and lost in an hour sometimes. Ten, fifteen, twenty per cent. some stocks rose and fell in a day! This created such an excitement that outside speculators rushed in by hundreds, and even women partook of the general feelings. They handed all the money they could scrape together to their brokers, as a "margin," and "went in" for the favorite stocks. The scene in Wall street, all day, beggared description, as "flush" men invested and came out bankrupt, or poor devils dipped in for luck and came out "cat-bird." At night the game was continued at the "Evening Exchange," under the Fifth Avenue Hotel; and so they kept it up "from night till morn, from morn till dewy eve." All sorts of bumbug gold and silver mining companies' stocks are the "card" in the market, and goodness only knows when the madness will end.

The State Geological Survey.—Professor Whitney, of the State Geological Survey, left, with his family, in the Golden Age, yesterday, for New York. The Professor goes East for the purpose of publishing the first three volumes of his Report. There will be matter for five volumes more at the expiration of two years. Professor Brewer, Mr. Hoffmann, and Mr. King, of the Geological Survey, are to start, next week, for the unexplored region in the Sierra Nevada, between Walker's Pass and the Moun trail, where they will continue their examinations and explorations.

Accidents.—John McGrath had one of his legs broken, a few days since, by a cave in a cut in which he was working, in claims at Morristown, Sierra county. Also, David Upham was seriously injured by a cave in the Oro quartz claim, at Downieville.—Isaac Davis was injured badly by the premature explosion of a blast at the Young America mine, Aurora.

Eastern Capital.—Scarcely a steamer arrives from the East that does not bring one or more Eastern capitalists, seeking investments in our mines. Having amassed fortunes in greenbacks, they seek in California and the adjoining Territory opportunities for turning them to profitable account. As a general thing they prefer developed and dividend-paying investments.

In Colorado.—The head clerk of Duncan, Sherman & Co. was recently at the Colorado mines, taking notes. According to the Colorado *Mining Journal*, he expressed himself as highly gratified with the prospects of the mines of that region.

[Written for the Mining and Scientific Press.]

Reese River Correspondence.

Messrs. Editors :—The Mills, Post & White Consolidation have a shaft about thirty feet in depth, and a tunnel advanced to a short distance on their claim. Their ledge proper is about one foot wide. The tunnel was started in search of blind ledges, and would have struck some of the best on Austin Hill had work on it not been discontinued a little too soon. The Black Swan ledge runs parallel with the Mills & Post, and about fifty feet below. This Company is not at work on account of an injunction laid on the claim at the instance of the Mills & Post Company, on the ground that the Swan is within one hundred feet of the former. The district mining laws grant one hundred feet on each side of a ledge, but that grant has always been understood heretofore to be solely for working purposes. A jury of miners will most assuredly never render a verdict otherwise. There are hundreds of other ledges in this district in exactly the same fix as the Swan, but a decision in this case appears to have been carefully avoided by the injunctors. The shaft on the Swan ledge is about forty feet down, and the ledge one and one-half feet wide at the bottom. Much rich rock has been taken out of the ledge while the incline was being sunk. The locator, who named the claim, and who is a native of the Old Dominion, indignantly denies the imputation that the ledge was named after the contraband Jenny Lind ; he says it was named after the Black Swan of Esmeralda, which was named after a pretty young white girl, of San Andreas.

The Bombay ledge has a shaft about fifty feet deep, and a lot of fine rock near its mouth. It should be worked. The incline on the Belle Shields is now being advanced, with fair indications of a medium ledge. The shaft is down thirty-five feet. There is no work being done on the Bamboo, Real Del Monte, Clery, Blake, Post Hole, or Sada Redfearn, and many other ledges less known. There are hundreds of such ledges jumpable, though it is not likely any one will take that trouble. The Tesoro Company, in Marshall Cañon, are sinking two shafts, one of which is down about seventy feet and one forty feet. The width of the ledge is about three feet. The Union No. 2, in the same Cañon, is a fine claim, though for some cause or other not being worked at present. On Austin Hill, the Kelly ledge is thirty feet down, with a ledge two feet wide. The Rosina ledge has a tunnel advanced to a short distance. The Roanoke Company is running a tunnel, from which they have a shaft on a ledge one foot wide. The Manhattan is also running a tunnel. At the dividing line between the Emma and Anna Funston, a shaft is being sunk. The ledge is here only one foot wide, though the claims are considered good, being in the vicinity of the Oregon. The Ethan Allen has a shaft of fifty feet, and a ledge between one and two feet in width. The Illinois, Magnolia, and other Companies also in the vicinity of the North Star, Oregon, and Morgan & Muncey, are prosecuting the work.

The Stranger ledge lies on the flat between Oregon and Lander Hills. There is an incline on it to the depth of sixty feet, and the ledge is one foot wide. At a forced sale of its stock for assessments a few days ago, it brought $7 per foot. The Smith & Martin ledge lies on Lander Hill. The ledge is one foot wide, and the rock near the surface very rich. They are working this ledge by stripping it and taking out the surface rock. In this way it more than pays for the expense of working the claim. There is a shaft on the ledge to the depth of thirty-five feet. The Samantha ledge, on the same hill, has a shaft seventy-five feet down, and a ledge one foot wide. On the other side of the hill, the Pinchout Company are sinking an incline, already sixty feet down, on a ledge two inches wide. These boys have the genuine miner's pluck in them, and are bound to find out whether they have a bona fide ledge or not. This can scarcely be determined in this neighborhood until an incline has been sunk to a depth of more than 100 feet. The Tippecanoe is fifty feet down, with a ledge fifteen inches in width.

EMIGRANT CANON.

The Sonoma ledge Company, and the South Sonoma, which is the first South extension of the original Sonoma, are running a tunnel near the dividing line of the two Companies. This tunnel, which is a very nice piece of work, has been advanced through the solid rock to the distance of 230 feet, and has about 100 feet more to be extended before it will strike the ledge. The Sonoma ledge, which is about three feet in width, is at the surface a conglomerate mass of decomposed quartz, filled with chlorides, with streaks of granite running through the ledge. One of the richest specimens ever found in the Reese River region was taken out of this ledge near the surface. The ledge is encased in granite, but appears well defined. The Toronto, located further down in this Cañon, has a ledge three feet wide, at a depth, only, of thirty feet from the surface. The ledge rock, which is hard and similar to the Oregon rock, will work several hundred dollars to the ton.

Crossing the hill which separates the Emigrant Cañon from what is usually known as the Old Emigrant Road, we cannot help noticing a change in the float or outcropping rock on the side of the hill. It no longer presents the decomposed appearance universally met with on Lauder Hill, but assumes the character of hard quartz. The Ontario's old shaft having caved in late last Fall, a new shaft was commenced during the Winter, and has been let down to the distance of 101 feet. This shaft, which is an oblong one, 9½ by 5 feet, is well timbered and one of the finest pieces of work of the kind in this Territory. The ledge, which is three feet wide, has not yet been reached. Operations on the shaft are temporarily suspended on account of water. The South extension of the Ontario is termed the You Bet. They are now at work on it.

YANKEE BLADE SECTION.

To reach this section we have a very steep hill or mountain to climb. Having reached the summit we meet with large masses of rock, cropping out on the side of the hill. This rock is of a bastard character, being neither slate nor granite, but an intimate composition of the two. The shafts of the Yankee Blade Mining Company (the original location) and the Whitlatch Yankee Blade, lie side by side. Work has been resumed on the Yankee Blade, a contract having been let for the sinking of a perpendicular shaft of 140 feet. This shaft is to be an oblong one, eight by four feet. The claim contains 1,400 feet. The Whitlatch Yankee Blade has a ledge three feet in width, with a shaft upon it sixty feet in depth. A considerable portion of the ledge has been stripped, and the rock looks exceedingly rich. The Whitlatch Company claims only 600 feet. Why there should be such a marked difference in the prices of the stock of the two Companies is to me incomprehensible, except it is caused by the size of the Companies' locations. The Yankee Blade ledge will undoubtedly re-establish and, this time, maintain the favorable character it enjoyed last summer.

Close by the Yankee Blade, and running towards it at an angle of about forty five degrees, is the Cicero. Its shaft is full of water; its ledge one foot wide. The Butte ledge lies above the Whitlatch Yankee Blade. This Company has a ledge one foot in width, and has advanced a tunnel sixty feet toward it. Lower down the ravine is the Paul Jones Ledge & Tunnel Company. Their tunnel has already struck a small ledge, but they have gone on in search of a larger one. We were unable to visit the Vineyard, it not being on the route laid down on our day's programme.

The village of Yankee Blade contains about thirty cabins and several families. About three fourths of a mile from Yankee Blade is the now noted "Maggie." A tunnel of fifty feet struck the ledge, and the Company has descended upon it on an incline run from the tunnel to the depth of twenty-five feet. Water comes in very fast at the present depth ; the ledge is about 2½ feet wide, well defined, and contains rock equal in richness to that recently obtained from the Oregon, North Star and the Isabella. Ruby and native silver are distinctly visible to the naked eye, and the rock is filled with the richest chlorides. This is the richest ledge in Reese River District at the same depth, and it appears to be located between the granite and slate formations. The gate of the Yankee Blade Tunnel Company is locked. This tunnel has been advanced a considerable distance, but has not yet struck a ledge sufficiently large to justify the Company to "incline" upon it. The Colossal has not yet commenced operations. X.

Austin, N. T., April 23d, 1864.

Mosquito Quartz Mining Company. Localton, Mosquito Gulch, near Mokelumne Hill, Calaveras County.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of May, 1864, an Assessment $5 per share was levied upon the Capital Stock of said Company payable immediately in United States Gold or Silver Coin, to the Secretary, at the Office of the Company, No. 433 Montgomery St., San Francisco.

Any stock upon which said Assessment shall remain unpaid on SATURDAY, the 11th day of June, 1864 will be advertised on that day, as delinquent, and unless payment shall be made before, will be sold on FRIDAY, the 1st day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale. By order of the Board of Trustees.

EM. FENARD, Secretary.

20-4t Office, 433 Montgomery Street, San Francisco.

Mount Vernon Gold and Silver Mining Company, Smoky Valley Mining District, Lander County, Nevada Territory.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 7th day of May, 1864, an assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable immediately, to the Secretary of the Company, in U. S. Gold Coin.

Any Stock upon which said assessment shall remain unpaid on SATURDAY, the 11th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 25th day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale By order of the Board of Trustees.

WM. H. DUDLEY, Secretary.

20-4t Office, No. 523 Montgomery St., San Francisco.

Rose Linda Mining & Manufacturing Company, Mokelumne Mining District, Amador County, Cal.—Notice is hereby given that at a meeting of the Trustees of the above Company, held on the 11th day of April, 1864, an assessment of Fifty (50) cents per share was levied upon the Capital Stock of said Company, payable in Gold and Silver coin on the 11th day of May next, to the Secretary, at the Office of the Company, 509 Clay St., Room No. 2.

Any Stock upon which said assessment shall remain unpaid on the 11th day of May next, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 26th day of May 1864, at the Office of the Company 509 Clay St., to pay the delinquent assessment, together with the costs of advertising and expenses of sale. HENRY HALE, Sec'y.

San Francisco, April 11th, 1864, 16-4t

By order of the Board of Trustees the time for the payment of the above assessment has been extended ten days, on expiration of which time, 21st of May, the Delinquent list will be published.

HENRY HALE, Secretary.

San Francisco, May 10th, 1864. 20-td

Zenith Gold and Silver Mining Company, Mountain Ranch District, Calaveras county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 3d day of May, 1864, an Assessment, No. 5, of fifty cents per share, was levied upon the Capital Stock of said Company, payable immediately in United States gold coin to the Secretary at the office of the Company.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 18th day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

M. G. ELMORE, Secretary.

Office, 645 Clay street, S. F. 19-4t

Peacock Gold and Silver Mining Company, Reese River District, Lander county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of April, 1864, an assessment of 25 cents per share was levied upon the capital stock of said company, payable immediately, in U. S. Gold Coin, to the Secretary or to Charles H. Fiske, Austin, N. T.

Any stock upon which said assessment shall remain unpaid on the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 23d day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. C. W. M. SMITH, Sec'y.

19-4t Office, 29 Gov't House, San Francisco.

COMPLIANCE WITH LAW.

THE PHŒNIX

INSURANCE COMPANY,

—OF—

Hartford, Conn.,

HAS MADE FULL COMPLIANCE WITH THE STATE LAW BY DEPOSITING

$75,000

With Messrs. Banks & Co., Bankers, and holds

Controller's Certificate of Authority.

The patronage of the insuring public is respectfully solicited for this first-class American Insurance Company.

AGENTS IN ALL CITIES, TOWNS AND VILLAGES.

R. H. MAGILL,
General Agent.

CITY OFFICE—James King of William Building, Southwest corner of Montgomery and Commercial Streets, (Entrance. No. 603 Commercial.)

L. B. DELL, Resident Agent.

I. FRANK, City Solicitor. 20-tf

Evening Instructions in Anylitical Chemistry and Assaying,

Conducted by Thomas Price.

(Agent for the Swansea Ore Importers in California.)

HAVING FITTED UP A LABORATORY ESPECIALLY FOR INstruction in Analysis and Assays, the subscriber begs leave to announce that

A NEW CLASS WILL BE FORMED

On the 1st of June. For terms apply at the Laboratory, on the evenings of Tuesday and Saturday at 7 o'clock; or at the office of the "Pacific Mineral Company," Odd Fellow's Hall, Montgomery street. THOMAS PRICE.

San Francisco, May 10th, 1864. 20

W. E. ROBINSON. J. R. MCGARRIGLE.

ROBINSON & CO.,

BROKERS,

Conveyancers and Mining Agents,

536 Washington Street, between Montgomery & Sansome, No. 7 & 8 third floor, San Francisco. 20-1m

Summary of Mining News.

A GREAT INDUSTRIAL FAIR!

—TO BE—

Opened in San Francisco,

—ON—

THE 30TH OF AUGUST, 1864.

THE MECHANICS' INSTITUTE OF SAN FRANCISCO ARE preparing for an Exhibition of Arts, Inventions, Manufactures of industry in general, upon a scale more grand, attractive and useful than ever before seen upon the Pacific Coast. Their Pavilion, built for the purpose, will occupy one of the city plazas, and will contain every convenience and appliance for an effective display. The Institute appeals to all persons within the scope of its influence, who are engaged in different branches of industry and art, to prepare and forward for Exhibition such articles as they may invent, discover, or make, that are useful, instructive, curious, or suggestive. There is scarcely an occupation in life that cannot supply some article that can be so considered, and by their public exhibition they may start the genius of invention in some other branch of industry or skill, the successful development of which may greatly enrich the State. The premiums and published reports of the Exhibition will widely advertise their qualities and merits.

Each age and country has new wants, which the progress of civilization creates and ingenuity gratifies. Those of our own day and section are improved methods and machinery for reducing ores of the precious metals. A striking feature of the Exhibition will be the number and variety of these, worked by the inventors. It is hoped that information most useful to the mining interest will be elicited. Miners are invited to send ores for exhibition, and trial, in quantities sufficient to be worked seperately in the different machines, in order to test both the relative merits of the machines and the value of the respective metallic veins.

The various transportation companies of the Pacific states and territories will, with commendable liberality, transport all articles intended exclusively for exhibition, free of charge, and Wells, Fargo & Co., in like manner, will take charge of them.

All articles forwarded should be labeled—"For the Industrial Fair," and be directed to C. B. Porter, agent.

Regulations for the Exhibition.

1—Persons intending to take part in the Exhibition are requested to make known their intention at the earliest practicable period, stating the kind of article or articles they intend to exhibit, and the probable amount of space required therefor.

2—The Pavilion will be open for the reception of articles for exhibition on Monday, the 22d day of August, and will continue open for that purpose until Monday, the 29th. The Exhibition will open to the public on Tuesday, the 30th day of August.

3—The name of every article should be attached to it; also a description pointing out its merits, when thought desirable by the exhibitor.

4—When articles are entered, a check for the same will be given, which must be presented and surrendered when the articles are withdrawn.

5—Articles intended for sale will be labelled accordingly, but cannot be removed until the close of the Exhibition, except by the written permission of the President.

6—Light, fancy or perishable articles will be received, or may be removed, at any time during the Exhibition, with the consent of the President.

7—All articles deposited will be at the risk of the owners, who are invited to be present during the hours of Exhibition. In the intervals efficient measures will be taken for the protection of property.

8—On the day following the opening of the Exhibition, each class of exhibitors will meet to choose, by ballot, their own Committees of Award; failing in this for one week, Judges will be appointed by the Executive Committee. The Executive Committee will award premiums for such articles as the several judges shall decide to be worthy of the same. The premiums will be delivered as soon as they can be prepared.

9—The morning of each day, until 9 o'clock, will be appropriated to the judges, and visitors will not be admitted during that time.

10—In case of misunderstanding, application may be made to the Executive Committee, who will be at all times in attendance.

11—Steam power will be provided, that machinery of all kinds may be seen in operation; and every possible facility will be given to exhibit all working machinery to the best advantage.

12—Exhibitors or their agents will receive free tickets of admission when, in the opinion of the President, the articles exhibited by them have such value, interest, or merit as to deserve it; but the transfer of any such tickets will work a forfeit of the privileges conferred by them.

13—All communications to be addressed to H. D. DUNN, Corresponding Secretary.

Executive Committee.

JOSEPH BRITTON,	A. S. HALLIDIE.
H. D. DUNN,	P. B. DEXTER,
E. NUNAN,	P. J. O'CONNOR,
W. H. KNIGHT,	C. R. STRIGER,
E. N. TORRY,	W. H. BUTLER,
H. F. WILLIAMS,	J. A. PRITCHARD.

19-tf

LLOYD'S NEW AMALGAMATOR

Is a Complete Success.

THE RESULTS OF THE WORK DONE BY IT DURING THE past week are:—From 300 pounds of tailings from Volcano, Amador county, worked for Mr. C. B. Culver, was obtained 6 oz. 12 dwts., equal to $10 to the ton of 2,000 pounds. The original ore was worked by the old Mexican arastra. From 6 0 pounds of tailings, the original ore having been worked by Professor Ryerson's Superheated Steam Machine, was obtained 15¾ ozs., Ryerson's machine having only got 5 ozs. to the ton from the ore.

Result from 50 pounds of ore from Amador county, worked for Mr. F. Williams, of Graves & Williams, of the Pacific Fruit Market, in this city, was obtained:

Gold	$73 33
Silver	42
To the Ton	$73 75

The assay being made by Messrs. Molitor & Co.

From 2½ pounds of the same ore, worked for the same party, was obtained:

Gold	$63 30
Silver	04
To the Ton	$63 34

Assay made by Kellogg, Hewston & Co.

The mine from which the above ore was taken has turned out over $10,000 gold and silver, and the average yield as worked upon the spot, has only been $6 to the ton. Varney's Pan has obtained as high as $ 5 to the ton from this ore—the difference in favor of Lloyd's Amalgamator being over Varney's Pan, $53 54.2 per ton; and over the works at the mill, $62 54.2 per ton. Result from 15 pounds of ore from Queen City Company's claims, El Dorado Canon, Arizona Territory, worked for Mr. T. Mudge, who obtained: Gold, $ .19, Silver, $1.52, amounting to $2.71-100—equal to $136.33-100 to the ton—the assay being made by Messrs. Molitor & Co. Mr. Deetken, at his metallurgical works in this city, obtained by the Varney Pan $ 54 to the ton—the difference in favor of Lloyd being $207.33-100 to the ton.

Result of 68 pounds of ore from the Lady of the Lake Company, Leland Lode, San Francisco District, Arizona Territory, worked for C. W. C. Rowell, was obtained $7.44 in Gold, $0.25 in Silver—$7.69—equal to $2 6.8-10ct. Assay made by Messrs. Molitor & Co. 1-0 pounds of the same ore, worked by Wheeler's Pan, and assayed by Kellogg, Hewston & Co., yielded $7.58-100—equal to $111.60 to the ton. Difference in favor of Lloyd being $104.58-00 to the ton. Lloyd's is undoubtedly the best Amalgamator yet introduced, and is certain to supersede all other Amalgamators now in use. Communications for Mr. Lloyd, either for assaying or other machines, can be addressed to the care of Messrs. Kustell Brothers, Metallurgical Works, Bryant street, between Third and Fourth streets, San Francisco. 20v8-3m

Notice to James M Ross, or his Heirs:—You are requested to call at this Office, where information of importance awaits you. Said Ross left San Francisco, in June last, for Noyo Mills.

WM. T. COLEMAN & CO.,

70 WALL STREET,

NEW YORK.

BUY AND SELL, ON COMMISSION, STATE AND CITY BONDS, Bank and Railroad Stocks, and other prime securities.

Buy and sell Exchange on California, Oregon and Western Cities.

Grant Letters of Credit, available in any part of the United States.

Receive moneys on deposit, and allow interest on special deposits at such rates as may be agreed upon.

Receive consignments of produce from California and Ports in the Pacific.

Make advances upon approved merchandise consigned to our San Francisco house.

Fill orders for staple goods of all kinds, for the California and Oregon markets, and effect Marine and Fire Insurance in the best offices.

Buy and sell and charter Vessels for all trades.

AGENTS FOR "COLEMAN'S CALIFORNIA CLIPPER LINE," loading and despatching regularly, every month, two to three first class clippers for San Francisco. Goods forwarded from any part of the United States or Europe, will be received with care, and shipped immediately at lowest current rate of freight. Bonded goods carefully attended to.

Orders for purchase of merchandise should be accompanied with a remittance of about 20 per cent. of the cost, or satisfactory arrangements can be made with our San Francisco house. On orders for Bonds and Stocks, 10 per cent. of the par value is always required.

We beg to say, no house has superior facilities for the transaction of all this business, and parties intrusting their interests to our care may rely upon our most faithful and watchful attention.

WM. T. COLEMAN & CO.,
70 Wall street, New York,
18v8 And California and Front streets, San Francisco.

Advances Made on Copper Ores,

WOOL, HIDES, WHALE OILS, ETC., CONSIGNED TO OUR friends in New York, Boston or England.

WM. T. COLEMAN & CO.,
18v8 San Francisco.

Exchange on New York,

PAYABLE IN COIN OR IN CURRENCY—FOR SALE, IN SUMS to suit, by

WM. T. COLEMAN & CO.,
18v8 California and Front streets, San Francisco.

RICHARD S. CLARK,

MINING SECRETARY,

Accountant and Copyist.

Office, No. 610 Merchant street.

N. B.—Mr. Clark has also a commodious room, to rent for annual and Special Meetings of Companies at any hour of the day or evening. 19-3m

H. S. Sanders & Co.,

Stock Brokers,

Members of the Stock & Exchange (1st) Board and of the Pacific Board of Brokers.

No. 516 Washington street, San Francisco. 12-m

HENRY SCHMIEDELL,

(Member of the San Francisco Stock and Exchange Board,)

Stock Broker & Real Estate Agent,

Office, 705 Montgomery Street, San Francisco. 18-m

Kustel Brothers'

METTALLURGICAL WORKS;

Bryant Street, Between Third and Fourth, San Francisco.

☞ Office, 418 Montgomery Street. ☜

☞ Gold and Silver Ores Reduced.

Practical Assays made of Gold, Silver and Lead Ores.

19-tf Also Cupellation and Refining of Silver and Gold. ☜

Rock Drilling Machines.

HAND AND POWER ROCK DRILLING MACHINES, FOR SALE AT 25 PER CENT LESS THAN IMPORTATION PRICES, TO PEREMPTORILY CLOSE OUT THE ENTIRE STOCK.

Also, Second hand Presses as follows: One Hydraulic Press; One Screw Standing Press; One Lithographic Press. The above presses are all in good order. WM. H. DUNN.

19-1m No. 9, First Street, San Francisco.

To Prospectors and Owners of Mines!

The Pacific Metallurgical Works

Of this City, have been in operation over four years—have operated on nearly all kinds of rock—having never yet found the kind they could not reduce. We now solicit from Mill owners, samples of Ore Sulphurets which they find rebellious or hard to work, and we will either purchase the Ores or shew them how to work them, by their paying the freight to this City.

Advances made

On all kinds of Mineral Rock or Sulphurets!

COPPER ORES, BOUGHT OR ADVANCED UPON FOR SHIPMENT.

We still manufacture the FIRE-PROOF MINERAL PAINT of which there was so much sold last year.

J. C. BRADSHAW, Jr. Sec'y.
17-1m Office, 511 Sacramento St., San Francisco.

Pacific Mail Steamship Company.

THE FOLLOWING STEAMSHIPS WILL BE DESPATCHED FROM SAN FRANCISCO IN THE MONTH OF MAY, 1864.

May 13—GOLDEN AGE.....Wm. F. Lapidge, Commadder.
May 23—GOLDEN CITY.....R. H. Pearson, Commander.

From Folsom street Wharf, at nine o'clock A. M., punctually,

FOR PANAMA.

Passengers will be conveyed from Panama to Asphnwall by the Panama Railroad Company, and from Asphnwall to New York by the Atlantic and Pacific Steamship Company.

A. B. FORBES, Agent P. M. S. Co.,

Mr. Jarvis Jewett is our duly authorized advertizing agent and collector in this city.

To Druggists and all Prescribing for Neuralgic and Nervous cases.—Your attention is called particularly to the efficacy of WATTS' NERVOUS ANTIDOTE for the above. Feelings of humanity, independent of pecuniary considerations would prompt you to recommend it to all cases of Neuralgic Pains, Face Ache, from defective teeth, and the General Wasting Away and Debility of the Nervous System, if you could have the assurance that this was what it is purported to be—THE GREAT RELIABLE TRANQUILIZER AND RESTORER OF THE SYSTEM. It has been repeatedly prescribed in cases of excessive drinking, on the verge of Delirium Tremens, and even while laboring under its disturbing influence, with astonishing results. It contains no preparation of Opium or Valerian, and is never accompanied with the unpleasant sensation always experienced after taking excessive doses of them. It is also the best Soothing Syrup in use. Patients have taken Watts' Nervous Antidote many months in succession, and experienced no unpleasant effect whatever—while the same continued use of many other popular remedies has completely shattered the system.

For sale, Wholesale and Retail, by SAMUEL ADAMS, U. S. Drug Store, corner of Pine and Kearny Streets, San Francisco. 6-3-3m

PRATER'S

PATENT CONCENTRATOR.

THE PROPRIETORS OF THIS NEW CONCENTRATOR, HAVING completed arrangements for its manufacture at the Iron Foundry, in this city, now offers it to the public, with the fullest confidence that for the purpose for which it is designed

It Has No Equal in Use.

The principle of this machine, which is designed for a Concentrator exclusively, is entirely new. It is designed for separating finely divided quicksilver, amalgam and gold from the sands, and for concentrating and saving the sulphurets, and is to be placed behind all or any other machine in use. It is now in operation at

WHEELER & THAYER'S REDUCTION WORKS,

NORTH BEACH, SAN FRANCISCO,

To whom the Proprietors are permitted to refer, and where all interested in mining are respectfully invited to call and examine the best Concentrator in use.

This machine is now running on waste sands, from which it is taking out an average of 3½ pounds of quicksilver for each ton of sand. Orders or letters of enquiry may be addressed to

HUNGERFORD & PRATER, Proprietors.
San Francisco, April 1st, 1864. 14v8-tf

PACIFIC IRON WORKS,

First street, between Mission and Howard streets,

SAN FRANCISCO.

GODDARD & COMPANY,

—MANUFACTURERS OF—

STEAM ENGINES & BOILERS,

QUARTZ, FLOUR, SAW AND SUGAR MILLS,

AMALGAMATING PANS AND BARRELS, MINING PUMPS AND HOISTING GEAR, WATER WHEELS,

And Machinery of Every Description.

Also furnish all kinds of Iron and Brass Casting. Only Manufacturers of the celebrated Bryan Battery. 1-tf

THE ATLAS IRON WORKS,

No. 24 & 26 Fremont Street.

—MANUFACTURE—

STEAM ENGINES, MINING MACHINERY, QUARTZ MILLS, MINING PUMPS, AMALGAMATORS, AND ALL OTHER KINDS OF MACHINERY FOR MINING OR MILLING PURPOSES.

Castings of all kinds,

Furnished. Our new and complete arrangements will enable us to do this kind of work in a superior manner and on the shortest notice.

Steam Engines of Scott's Patent,

Can be furnished of any size, and of high or low pressure. These Engines combine so many points of decided improvement in their simplicity of construction, and in the economy of fuel for running them, as to make them superior to all others. One can be seen in operation at the works, where all information respecting them can be obtained.

16v8 THOMAS SCOTT & CO.,

Hepburn & Peterson's

AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION OF THE Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos. 127 and 129 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

[Illustrated in the Mining and Scientific Press, April 9th, 1864.]

nov8 3m* HEPBURN & PETERSON.

BLASTING POWDER!

Prime Blasting Powder, on Consignment

And for sale in lots to suit purchasers, by

J. S. CURTIS,
6v8-tf No. 405 Front street, San Francisco.

Mining Laws and Forms

JUST PUBLISHED, BY H. H. BANCROFT & CO., BEING A compilation of the Statutes of this State relating to Mining Corporations, Assessments, etc., with a digest of decisions of the Supreme Court and Forms of the Incorporation of Companies. Compiled by H. B. Congdon. 12mo., flexible cloth. $1,50. For sale at all the Bookstores. sept3-tf

WARRIN, SMITH & CO.,

Commission Merchants,

—ALSO—

REAL ESTATE, STOCK AND EXCHANGE BROKERS,

Members of the San Francisco Board of Brokers Members of the Pacific Board of Brokers.

No. 618 Merchant Street, (above Montgomery) San Francisco.

☞ MONEY TO LOAN IN SUMS TO SUIT. ☜ 18-tf

Miscellaneous Advertisements.

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Fulton Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First Street, between Market and Mission stree

3-qy SAN FRANCISCO.

J. B. GRUSH, J. A. PEER, W. BUSHMAN

GRUSH & CO.,

Pattern and Model Makers.

Drawings Made for Engines, Mills, Water Wheels, Mining Machinery, Etc.

— ALSO —

WOOD WORK FOR ALL KINDS OF MACHINERY.

☞ SCROLL SAWING DONE TO ORDER.

Fremont St., between Market and Mission, San Francisco. 3-3m

GEORGE T. PRACY,

MACHINIST AND BLACKSMITH.

Steam Engine, Flour and Saw Mill, And Quartz Machinery, Printing Presses,

AND

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED

Nos. 109 and 111 Fremont street, near corner of Mission,

OPPOSITE MECHANICS' MILL,

3-qy SAN FRANCISCO.

JOHN P. GALLAGHER..... .....JOSEPH H. WEED.

GALLAGHER & WEED,

BRASS AND BELL FOUNDRY

And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING, DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, MADE to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks, also brass Padlocks and Shop Locks of various patterns, on hand and made to order.

☞ Particular attention given to casting Rudder Braces and Ship Work in general.

☞ All Jobs promptly attended to.—Prices moderate. ☜

No. 125 First Street, opposite Minna, next door to Pacific Foundry.

[Removed from Oregon street, between Front and Davis.]

j2tf

LEWIS COFFEY. J. S. RISDON.

LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

THE ONLY EXCLUSIVELY BOILER MAKING ESTABLISHment on the Pacific Coast, owned and conducted by Practical Boiler Makers. All orders for New Work, the repairing of Old Work, executed as ordered, and warranted as to quality.

Old Stand, corner Bush and Market Streets. Opposite Oriental Hotel, San Francisco, Cal.

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,

BOILER MAKERS AND SHEET IRON WORKERS,

N. B. All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission, between Beal and Fremont Sts., San Francisco.

qy29-tf

PHŒNIX WORKS.

Nos. 6 & 8 Battery street, near Bush, San Francisco.

JOHNATHAN KITTREDGE, MANUFACTURER

—OF—

FIRE-PROOF DOORS, SHUTTERS, GRATINGS AND BANK VAULTS.—ALSO, BLACKSMITH'S WORK. 14-m

LEANDER RANSOM,

Civil Engineer and Surveyor,

HAVING BEEN CONNECTED WITH THE PUBLIC WORKS OF the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. Also

State Locating Agent,

AND AS SUCH HAVING THE SALE OF

600,000 Acres of State School Lands.

At the low price of $1,25 per Acre.

TERMS—Twenty per cent in cash and the balance on a credit of several years.

oc7-tf Office, 328 Montgomery streets.

W. W. HANSCOM,

Steam and Mechanical Engineer. Designs furnished, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc., etc. Agent for McKenzie's Patent Cupola and Blower.

At the Golden State Iron Works,

First Street, San Francisco.

tf.

Boston Mastic Roofing.

WE ARE PREPARED TO FILL ALL ORDERS FOR ROOFING throughout the State, Mexico or Nevada Territory. The attention of miners and mill owners are especially called to this notice, it being the cheapest and most economical roofing in use.

Office 135 Montgomery Street, near Bush, San Francisco.

10v8-2m N. P. PERIN & CO.

WANTED,

Gold Quartz suitable for Cutting Jewelry.

By **FRONTIER & DEVIERCY.**

437 Pine Street, San Francisco.

au3tf.

PIONEER FOUNDRY and MACHINE SHOP,

Lower Gold Hill,

Have Superior Facilities for Making

MINING & MILLING MACHINERY,

A COMPLETE SET OF MACHINE TOOLS WITH

PLANER,

ENABLES ME TO DO ALL KINDS OF

MACHINE WORK AT SHORT NOTICE.

RETORTS AND INGOT MOULDS,

STAMP SHOES AND DIES,

WHEELER, VARNEY AND HEPBURN

PAN SHOES CONSTANTLY ON HAND.

Plans, Specifications, and Drawings of all kinds of Mill and Mining Machinery made at short notice, by

13 OLIVER HYDE, JR.

E. D. Farrington,

ASSAYER.

No. 430 Montgomery street, San Francisco. N. B. Assays guarranteed. 8v8-1m

Riehn, Hemme & Co.,

ASSAYERS.

☞ Assays made of Ores, Minerals and Metals. ☜

CHAS. F. RIEHN, late U. S. Branch Mint, gives lessons in Assaying, also in Mineralogy and Chemistry, as far as required to become a practical Assayer.

REFERRED with permission to Messrs. F. Parrot & Co., R. B. Swain, Esq., Messrs. Alsop & Co., Messrs. Donohoe, Ralston & Co. 1

G. E. MOORE,

Assayer and Analytical Chemist,

Having established a Chemical Laboratory, furnished with every requisite for delicate Analytical work, is prepared to execute the Assay and Analysis of Ores, Mineral Waters, Guanos, etc., with accuracy and dispatch. No. 334 Montgomery Street.

REFERENCES:—Prof. J. D. Whitney, State Geologist, San Francisco; Alsop & Co., San Francisco; Sather & Church, San Francisco; John Parrott, San Francisco; D. O. Mills, Sacramento. 1tf

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Promptness and Accuracy Secured

BY THE USE OF THE MOST IMPROVED METHODS OF ANALYSIS!

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[Consulting Chemist, from Europe.]

24 Government Block, corner of Sansome and Washington Streets, San Francisco.

Refer to the Editors of this journal.

☞ "HINTS FOR PROSPECTORS" free by post. 1tf

NORTH BEACH

Quartz Mill and Reduction Works

ARE PREPARED TO WORK GOLD AND SILVER ORES, IN large or small quantities.

Working assays made of small lots, and all kinds of ores crushed at short notice.

Our new and complete Machinery, will enable us to give results fully up to the merits of rock.

WHEELER & THAYER, Proprietors.

C. C. JONES, Amalgamator.

San Francisco, Oct. 13, 1863. j2tf

HOWLAND, WOODARD & WILSON,

Copper Crushing and Grinding.

Attend to all kinds of Grinding & Crushing,

—SUCH AS—

COPPER ORES, MARBLE DUST, FIRE-BRICK DUST, DRUGS,

And Feed of all Kinds,

All of which will be Ground at the Shortest Notice.

— ALSO —

California Mineral Paint and Mineral Polishing Powder.

Works—No. 537 Market Street.

San Francisco, January 1st, 1864. 1-tf

JOHN TAYLOR,

— IMPORTER AND DEALER IN —

Druggists' and Chemists' Glassware,

And a Full Assortment of Assayers' Articles.

—INCLUDING—

Bullion and Assay Ballances, Furnaces, Muffles, Crucibles, Cupels, Acids, Etc., Etc.

Also—A Full Assortment of Reagents.

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DEETKEN & CO'S.,

METALLURGICAL WORKS,

FOR THE REDUCTION OF

SILVER AND GOLD ORES, TAILINGS, SULPHURETS, ARENIURETS, ETC., ETC. CUPELLATIONS AND REFINING OF SILVER AND GOLD,

Practical Assays for Silver and Gold, in small and large quantities, by Smelting, Chlorination and Pan Manipulation.

WORKS—On the San Bruno Road.

OFFICE—No. 315 Montgomery St., San Francisco. 16v8-tf

Pacific

METALLURGICAL WORKS.

North Beach, San Francisco.

THE COMPANY HAVING BEEN TO A LARGE EXPENSE IN enlarging their Works, are now prepared to contract to work any quantity of Gold and Silver Rock, nearer the true assay than any other Company in this Country, or Europe.

G. T. FOUQUE, Superintendent.

S. C. BRADSHAW, JR., Secretary.

Office, 511 Sacramento street, San Francisco. 3-tf

REYNOLD'S

Patent Cut-Off and Governor,

For Steam Engines.

127 of these Invaluable Machines

ARE NOW IN USE

In California and Nevada Territory, giving a perfectly regular motion and

Saving 20 to 75 per cent of the Fuel.

Steen's Improved Governor

IS THE CHEAPEST, SIMPLEST AND QUICKEST TO ACT AND least liable to get out of order of any Governor in use. It can be seen in operation at the Golden State Iron Works, at the Stone Breaker, foot of Montgomery Street and at the Sugar Refinery, 8th Street, San Francisco.

Steam Engines, Boilers, Pipes,

Hydraulic Presses, Shafting, Pulleys, Etc., Etc., bought and sold the best market rates.

Anti-Incrustation Powder,

A sure remedy for Scale in Steam Boilers, without injury to the Iron. In use for the past EIGHT years.

☞ MACHINERY MADE AND REPAIRED. ☜

—REFER TO—

Sugar Refinery, San Francisco,

Cottell & Co., San Jose,

L. A. Booth, Esq., Virginia City,

And 2,000 others in the United States.

E. T. STEEN.

1-tf Nos. 37 & 39 Fremont Street and 42 & 44 Beal Street.

SQUARZA'S PUNCH.

FIRST PREMIUM

AT THE SACRAMENTO AGRICULTURAL STATE FAIR FOR THE YEAR 1862.

ALSO; FIRST PREMIUM

At the San Francisco Bay District Agricultural Fair, 1862.

MANUFACTORY, WHOLESALE AND RETAIL,

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THEODORE KALLENBERG,

Maker of Models for Inventors.

MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.

No. 418 Market street, San Francisco. n7-tf

Ore Bags.

10 000 HAND SEWED GOLD AND SILVER ORE BAGS, 100 lbs each. 15,000 Chicken Gunny Pocket Bags, suitable for Copper Ore, 125 lbs each. For sale in lots, by

REYNOLDS, HOWARD & FORD,

11v8-tf 313 and 315 Davis Street, San Francisco.

Owen's River Canal Company.

CAPITAL STOCK.....$1,000,000

10,000 Shares.....$100 per Share.

A PORTION OF THIS STOCK IS NOW OFFERED TO THE PUBlic, and recommended as an investment.

Full Paid and Unassessable Stock,

Also Assessable Stock, can be obtained of A. J. DOWNER & CO., the authorized Agents of the Company,

406 Montgomery Street.

President.....R. S. WHIGHAM.
Secretary.....W. FISK HITCHCOCK.
Treasurer.....MONTGOMERY GODLEY.
Superintendent.....WILLIAM FLEMING.
Engineer.....J. E. CLAYTON.

TRUSTEES:

R. S. WHIGHAM, formerly of Whigham's Mill,.....Nevada City.
WILLIAM FLEMING.....of San Francisco.
SPIER RIDDEL.....Paying Teller of Parrott & Co's.
ISAAC SWAIN.....of A. J. Downer & Co.
WILLIAM P. PRATT.....of Nash & Fogg.

Office of the Company 328 Montgomery Street. j1tf

JOHN SCOTT,

METALLURGIC CHEMIST

— AND —

ASSAYER OF ORES, MINERALS AND METALS,

No. 507 Jackson Street, above Montgomery, San Francisco.

WORKING ASSAYS MADE ON LARGE OR SMALL QUANTIties of Ore by the most approved methods, and instructions regarding the reduction of them, in general, given. Assaying of Ores, etc., taught, either by the wet or dry method. Silver Ores reduced by means of Electricity.

☞ Terms moderate, and all results guaranteed. 11v8-tf

GEO. A. METCALF. D. S. HUTCHINSON

METCALF & HUTCHINSON'S

PHOTOGRAPHIC GALLERY,

650 Washington St. Three doors below Kearney, San Francisco.

HAVING REFITTED THE ABOVE ROOMS THE FIRM ARE now prepared to furnish the public with a superior style of Picture, at a lower price than ever before offered in the city.

CARD PICTURES.

As we have every facility for producing these beautiful picture in all their different varieties, we have reduced the price to

THREE DOLLARS PER DOZEN!

Large sized Photographs $3—Extra copies $1 each.

AMBROTYPES in all Styles and Prices.

OLD PICTURES copied with care and accuracy, in any style desired. Particular attention paid to pictures of children.

Pictures painted in Oil or Water Colors, and retouched in Indian Ink by a competent artist. aug

DESKS AND OFFICE FURNITURE OF ALL KINDS, FOR SALE BY

JOHN WIGMORE,

No. 423 California St., San Francisco

OFFICE JOBBING, of all kinds, promptly attended to.

j2-tf

Patronize Home Manufacturers!!!

JAMES LONGSHORE,

TRUNK AND VALISE MANUFACTURER, 327 SANSOME ST., under Tehama House. Trunks and Valises, Wholesale and Retail. Fine Sole Leather Trunks, Valises, and a fine assortment of LADIES' TRUNKS constantly on hand. Trunks covered and repaired.

au10

PEOPLE'S NOMINATIONS.

To the Voters of the City and County of San Francisco:

Your Committee, appointed to make municipal nominations for the coming election to be holden on the 17th inst., have, after mature deliberation, nominated a ticket which they are fully satisfied will meet your approbation, and will receive your cordial and undivided support.

As loyalty to the Federal Government is, in our opinion, the first test of a candidate's qualification for office, we have exacted a pledge of the same for every one of the nominees, and fully believe in presenting the following ticket, that there is not the name of a single individual upon it who will not bear the strictest scrutiny in this respect.

We would earnestly recommend the closing of all places of business on election day.

J. J. Felt, President	Isaac E. Davis,
George Morrow,	A. J. Cosso,
Henry Dutton,	Morris Mayblum,
Calvin Page,	Henry Steele,
Chas. W. Brooks	J. G. Clark,
P. L. Weaver,	H. M. Beach,
J. H. Deering,	Geo. Y. Loring,
C. E. Hitchcock,	J. A. Hooper,
Francis Blake,	L. B. Edwards,
Thomas Bigley,	M. A. Jones,
Donald McLellan	J. W. Cox,
J. M. Learned,	W. K. Districh

City and County Ticket for 1864.

Auditor.....HENRY M. HALE.
City and County Attorney.....J. H. SAUNDERS.
Chief of Police.....M. J. BURKE.
Tax Collector.....CHAS. R. STOREY.
Sheriff.....HENRY L. DAVIS
Superintendent of Streets.....GEO. COFRAN.
Public Administrator.....J. W. BRUMAGIN.

Supervisors.

First District.....Jabish Clement
Third District.....Francis Cunningham
Fifth District.....Monroe Ashbury
Fifth District (short term).....Monroe Ashbury
Seventh District.....Charles Clayton
Ninth District.....A. J. Shrader
Eleventh District.....R. B. Woodward

School Directors.

First District.....L. B. Mastick
Third District.....Dr. Washington Ayer
Fifth District.....Dr. W. A. Grover
Sixth District (unexpired term).....Giles H. Grey
Seventh District.....W. G. Badger
Eighth District (vacancy).....J. L. N. Sheppard
Ninth District.....S. P. Thompson
Ninth District (short term).....S. P. Thompson
Eleventh District.....M. Lynch

Constables.

Districts.	
1 and 2—1st Township	P. Crowley
3 and 4—2d Township	S. C. Harding
5 and 6—3d Township	Mighill Smith
7 and 8—4th Township	J. Hilton
9 and 10—5th Township	John Grosbeck
11 and 12—6th Township	M. Hopkins

Inspectors of Election. Judges of Election.

Districts	
1—B. Shellard	D. S. Garwood
2—E. R. Waterman	W. J. Stringer
3—J. H. Wilson	J. P. Baker
4—C. C. Morton	J. M. Johnson
5—E. V. Sutter	E. D. Blair
6—C. M. Cousins	W. C. Wendell
7—Chas. Farran	A. L. Tubbs
8—C. J. Snow	C. V. S. Gibbs
9—J. Moulton	E. B. Benjamin
10—C. L. Tracy	W. M. Rockwell
11—W. O. Andrews	N. W. Spaulding

First Precinct.

12—D. A. Stivers.....E. W. Lewis

Second Precinct.

12—Merrill Welton.....W. Culver

my20-td

L. B. FINE. JAMES A. OWENS.

OWENS & FINE,

Mining Secretaries, Real Estate and General Agents,

WILL ATTEND TO DRAWING MINING STOCKS, PAYING ASSESSMENTS, BUYING AND SELLING STOCK LOCATED IN ALPINE COUNTY.

OFFICE.—Mammoth Hotel, Main Street, between Second and Third, Silver Mountain. 20-3m

Equal Chance Mining Company.—The First Annual Meeting of the Stockholders in the above named Company, for the election of Trustees, will be held on Monday, the 13th day of June next, at 2 o'clock, P. M., at the office of the Secretary, 614 Montgomery street. D. M. HOSMER, Secretary.

San Francisco, May 13th, 1864. 20-td

Excelsior Gold and Silver Mining Company, Reese River District, Lander county, Nevada Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 22nd day of March, 1864, an assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable in Gold Coin of the United States, to the Secretary, or to SAMUEL DONNELLY, Superintendent of the Company, at Austin, N. T. By order of the Board of Trustees.

J. CAMMET, Secretary.

20-5t Office, No. 321 Front Street, San Francisco.

Minnehaha Gold and Silver Mining Company, Reese River District, Lander County, Nevada Territory.

Notice is hereby given that at a meeting of the Board of Trustees of said Company held on the 22nd day of March, 1864, an assessment of Twenty-five cents per share was levied upon the Capital Stock, of said Company, payable in Gold Coin of the United States, to the Secretary, No. 321 Front street, San Francisco, or to SAMUEL DONNELLY, Superintendent of the Company at Austin, N. T. By order of the Board of Trustees. F. M. TRUWORTHY, Secretary.

20-5t* Office, No. 321 Front Street, San Francisco.

NOTICE.

Is hereby given that from and after June 15th, 1864, the Office and principal place of business of the Emmett Copper Mining Company, will be removed from San Francisco to Copperopolis, Calaveras County. San Francisco, May 14th, 1864.

M. G. ELMORE, Secretary.

20 Office, 645 Clay Street.

Segregated Crown Point Mining Company, Gold Hill Mining District, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 13th day of May, 1864, an Assessment of twenty-six dollars per share was levied upon the Capital Stock of said Company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company.

Any stock upon which said Assessment shall remain unpaid on Tuesday, the 14th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 25th day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

R. N. VAN BRUNT, Secretary.

20-4t Office, 706 Montgomery street, San Francisco.

Oxford Betn Tunnel and Mining Company, Silver Hill, Esmeralda District, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 9th day of May, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on the 10th day of May, 1864, in United States gold coin, to the Secretary, or to Thomas Lytle, Superintendent, at Aurora, N. T.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 11th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 29th day of June, 1864, to pay the delinquent Assessment, together with the costs of advertising and expenses of the sale. By order of the Board of Trustees. GEO. H. PECK, Sec'y.

20-4t Office, Corner of Broadway and Sansome Streets.

Noble Grand Mining Company, Inyo District, Tulare county, California.

NOTICE.—There is delinquent upon the following described stock on account of assessment levied on the 8th day of April, 1861, the several amounts set opposite the names of the respective shareholders, as follows:

Name.	No. Cert.	No. Shares.	Amt.
John F Ellis	36	10	$2 50
John F Ellis	37	10	2 50
John F Ellis	38	10	2 50
John F Ellis	39	10	2 50
John F Ellis	40	10	2 50
John F Ellis	41	10	2 50
John F Ellis	42	10	2 50
John F Ellis	43	10	2 50
John F Ellis	44	10	2 50
John F Ellis	45	10	2 50
John F Ellis	45	5	1 25
John F Ellis	47	5	1 25
John F Ellis	48	5	1 25
John F Ellis	49	5	1 25
John F Ellis	51	5	1 25
John F Ellis	52	5	1 25
John F Ellis	53	5	1 25
John F Ellis	54	4	1 00
Mrs S S P Basiman	127	5	1 25
G D German	132	4	1 00
John Kelsey	124	100	25 00
John Kelsey	125	41	10 25
Frank W Shattuck	55	10	2 50
Frank W Shattuck	63	10	2 50
Frank W Shattuck	67	5	1 25
Frank W Shattuck	68	5	1 25
Frank W Shattuck	71	5	1 25
Frank W Shattuck	74	5	1 25
Frank W Shattuck	75	5	1 25
Frank W Shattuck	76	5	1 25

And in accordance with law, and an order of the Board of Trustees, made on said 8th day of April, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the office of the Secretary, on the 24th day of May inst., at 12 o'clock, M., of said day, to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

A. G. WOOD, Secretary.

20-2t 210 Montgomery street, No. 4, 2d floor, San Francisco.

Kelsey Gold and Silver Mining Company, El Dorado County, Cal. Office, No. 635 Sacramento street, San Francisco, May 13th, 1864.

Notice is hereby given, that in accordance with the laws of the State of California, the By-laws of the Kelsey G. & S. M. Co., and the order of the Board of Trustees this day duly made and entered, there will be sold, at public auction, on Monday, June 13th, 1864 at, 11 o'clock, A. M., by Messrs. Cobb & Sinton, at their auction rooms, No. 406 Montgomery street, in the city of San Francisco, so much of the Capital Stock of said Company, standing in the names of the following persons as may be necessary to pay all Assessments now due by said parties, together with the expenses of advertising and sale, unless the same shall have been previously paid.

No. of Cert's.	Names.	No. Sh's.	No. Ass't.	Am't.
78, 79, 80, 81, 82	A Fulk	90	5 & 6	$22 50
89, 90, 92 to 105	Noble Lovely	275	5 & 6	68 75
407,138,139,140,141	H Wolfe	265	6	39 75
180	Sophia Steiger	25	5 & 6	6 25
191,193,194,195, 426, 427	Ole Bergson	175	6	26 25
321	C H Tuft	75	6	11 25
219	Joseph Whittle	10	6	1 50
233, 4, 5, 7, 8, 0, 240,1,2,3,4,5,6,7 9,250,438,439 196,7,8,9,200,3,4, 5,8,9,12	John L Yates Jr	330	6	49 50
	A E Shannon	240	6	36 00
303	C H Killey	20	6	3 00
304	B Slocumb	5	6	75
306	Lehman Blum	5	5 & 6	1 25
308	E Maitre	25	6	3 75
309	Gustave Israel	10	5 & 6	2 50
310	K Cleaves	10	5 & 6	2 50
315	F W Bach	5	5 & 6	1 25
317	John Ducker	60	0	9 00
324	C P Williams	100	6	15 00
327, 339, 357, 364	John C Hull	65	6	9 75
328	Alice Moore	5	5 & 6	1 25
348	J Ford	20	5 & 6	5 00
264	Jane James	10	6	1 50
399	Andrew Wilson	15	6	2 25
400	Mrs Susan Sweetzer	10	6	1 50
420, 421	E Worth	50	6	7 50
435	Henry E Brooks	10	6	1 50
311	W Van Housen	5	6	75
164	W A Frey	10	6	1 50
273, 276, 280, 284 285, 286, 287, 288	B F Butler	85	6	12 75
23, 145	R D Scofield	17	5 & 6	4 25
Not issued	C J West	15	4, 5 & 6	5 25
294, 297	A de Castilla	40	4, 5 & 6	14 00

By order of the Board of Trustees.

S. C. GARDNER, Secretary.

For Sending East, no more valuable or appropriate publication can be selected than the MINING AND SCIENTIFIC PRESS. For sale by the principal newsagents.

Astor Ledge and Company, Ravenswood District, Lander county, Nevada Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 11th day of May, 1864, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable immediately to the Secretary, at No. 3, Armory Hall, 3d floor, corner of Montgomery and Sacramento streets.

Any stock upon which said assessments shall remain unpaid on the 11th day of June, 1864, will be advertised on that day as delinquent and unless payment shall be made before, will be sold on the 29th day of June, 1864, to pay the delinquent assessments, toget her with costs of advertising and expenses of the sale.

S. PURDY, Secretary.

Office, Armory Hall, Monigomery and Sacramento sts. 20-4t

Tuolumne Gold and Silver Mining Company, Poindexter Ledge, San Francisco District, Arizona Territory.

Notice is hereby given that at a Meeting of the Board of Trustees of said Company, held on the 10th day of May, 1864, an Assessment of ten cents per share was levied upon the Capital Stock of said Company, payable on the 14th day of May, 1864, in United States Gold and Silver coin, to the Secretary, No. 11, Government House in the City and County of San Francisco.

Any stock upon which said Assessment shall remain unpaid on SATURDAY, the 11th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on WEDNESDAY, the 29th day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. EDW. QUACKENBUSH Sec'y.

Office, No. 11, Government House, corner Sansome and Washington Streets. 20-4t

Prima Donna Gold & Silver Mining Company, Devil's Gate District, Nevada Territory.

NOTICE.—There are delinquent upon the following described stock, on account of Assessment (No. 6) levied on the second day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certif.	No. Shares.	Amt.
Briggs, John M	46	5	$2 50
Barker, S	81	20	10 00
Barker, S	84	5	2 50
Brewer, Mrs. H. W	142	5	2 50
Barker, S. F	153	95	47 50
Brewer, F. A	245	10	5 00
Chester, Henry	219	5	2 50
Harris, E. R	35	5	2 50
Harris, E. R	37	5	2 50
Harvey, Wm	74	5	2 50
Hamilton, Jas. E	93	20	10 00
Heath, Mrs. Jemima	118	5	2 50
Hageman, P	133	5	2 50
Lawton, Irving	230	5	2 50
Lent, Wm. H	137	5	2 50
Lawrence, W. H	237	5	2 50
Morgan, F	238	20	10 00
Morgan, F	239	20	10 00
Milbury, Jos	96	10	5 00
Milbury, Mrs. Annie W	97	10	5 00
Oberch, John A	62	5	2 50
O'Neill, R. C	194	5	2 50
O'Neill, R. C	197	5	2 50
Page, M. B	38	5	2 50
Pilkington, J. B	138	20	10 00
Pratt, S. K	94	5	2 50
McGinnis, J. M	107	50	25 00
McGinnis, J. M	108	50	25 00
McGinnis, J. M	110	25	12 50
McGinnis, J. M	112	25	12 50
McGinnis, J. M	216	10	5 00
McGinnis, J. M	217	10	5 00
McGinnis, J. M	218	5	2 50
*Rotarnund, John	64	5	5 00
Reilly, Michael	123	40	20 00
Reilly, Michael	128	10	5 00
Rogers, Samuel	228	10	5 00
Rogers, Samuel	240	25	12 50
Scholtz, Charles	182	5	2 50
Tenney, Eugene B	47	10	5 00
Wheeler, Henry	41	5	2 50

*Also delinquent on Assessment No. 5.

And in accordance with law, and an order of the Board of Trustees, made on the 12th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at Public Auction, at the salesroom of John Middleton & Son, No. 400 Montgomery street, San Francisco, on WEDNESDAY, the 15th day of June, 1864, at the hour of 12 o'clock, M., of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale. H. B. CONGDON, Secretary.

20-4t Office No. 629 Washington street, Room 3, San Francisco.

Mammoth Gold and Silver Mining Company, Rock Spring District, San Bernardine county.—Notice—There are delinquent, upon the following described Stock, on account of Assessment levied on the 13th day of April, 1864, the several amounts set opposite the names of the respective Shareholders, as follows:

Names.	No. Certif.	No. Sh.	Am't
Bushnell, R L	214	5	2 50
Cheney, James	64	16 8-12	—
" "	67	20	—
" "	69	20	—
" "	70	10	—
" "	72	10	33 33
Conrad D	120	7 3-12	—
"	121	10	—
"	122	10	—
"	123	7 3-12	17 25
Chapin, G W	148	4 7-12	2 30
Crocker, J	184	16	8 00
Francis, D B	108	6 1-3	—
" "	109	10	—
" "	130	10	12 25
Flint, W K	144	8 8-12	4 33
Franklin, E	166	10	5 00
Gray, C H	185	16	8 00
Harrington, G	104	7	—
" "	105	10	8 50
Hodgden W	186	16	8 00
Knap, J B	132	7 3-12	—
" "	133	10	—
" "	134	10	—
" "	135	7 3-12	17 25
Livermore, H G	24	216 8-12	108 33
Ludlund, T B	171	10	—
" "	172	7 3-12	—
" "	173	17 3-12	17 25
Molt, J P	110	16 8-12	8 33
Ober, Benj	224	10	5 00
Rawley, J B	176	2	1 00
Reed, C W	182	16	—
" "	198	8	12 00
Taylor John	115	25	12 50
Webster, F E	236	5	2 50

And, in accordance with law, and an order of the Board of Trustees, made on the 13th of April, 1864, so many Shares of each parcel of said Stock as may be necessary, will be sold at Auction house of Jerome Rice & Co., 327 Montgomery street, on the 28th day of May, 1864, at the hour of 11 o'clock, A. M., of said day, to pay said delinquent Assessment thereon, together with costs of Advertising and expenses of the Sale. GEORGE BOWER, Secretary.

20-5t Office, 611 Clay street, Room 8, San Francisco, May 14.

MINING NOTICES—MAY 7th.

Itasca Silver Mining Company, Kelly Ledge, Reese River District, Lander county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of May, 1864, an Assessment of forty cents per share was levied upon the Capital Stock of said Company, payable on the 7th day of May, 1864, in United States gold coin, to the Secretary, No. 11, Government House, cor. Sansome and Washington streets, San Francisco, or to Charles Wray, Superintendent, Austin, Lander county, N. T.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 22nd day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. EDW. QUACKENBUSH, Secretary.

Office, No. 11 Government House, cor. Sansome and Washington streets, San Francisco. 19-4t

Wall Street Gold and Silver Mining Company, Reese River District, Lander County, N. T.

Notice is hereby given that at a meeting of the Board of Trustees of said company, held on the 3d day of May, 1864, an assessment of fifty cents per share was levied upon the capital stock of said company, payable immediately, to the Secretary of the company, in U. S. Gold Coin.

Any stock upon which said assessment shall remain unpaid on Saturday the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday the 18th day of June, 1864, to pay the delinquent assessment, together with costs of advertising, and expenses of the sale. By order of the Board of Trustees.

W. H. DUDLEY, Sec'y.

19-4t Office, No. 528 Montgomery Street, San Francisco.

Green Monster Copper, Gold and Silver Mining Company, Inyo Mining District, Tulare county, California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 5th day of May, 1864, an Assessment of one dollar per share was levied upon the Capital Stock of said Company, payable immediately, to the Secretary, at his office, No. 23 Montgomery Block, San Francisco.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 22d day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale.

ISAAC N. THORNE, Secretary.

Office, No. 23 Montgomery Block, San Francisco. 19-4t

Illinois Gold & Silver Mining Company, Smoky Valley District, Lander county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 2d day of May, 1864, an Assessment of fifty (50) cents per share was levied upon the Capital Stock of said Company, payable on the 7th day of May, 1864, in United States Gold Coin, to the Secretary, or to Ralph Brown, Superintendent, at the Mine.

Any Stock upon which said assessment shall remain unpaid on Saturday the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 18th day of June 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

GEO. C. HARRIMAN, Sec'y.

19-4t Office, 612 Clay Street, San Francisco.

Noonday Copper Gold & Silver Mining Company, Clayton District, Contra Costa County California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 5th day of May 1864, an assessment, No. 5, of 20 cents per share was levied upon the capital stock of said Company, payable immediately, in United States Coin, to the Secretary, at the Office of the Company, corner of Bush and Kearny streets, San Francisco, California.

Any Stock upon which said assessment shall remain unpaid on the 4th day of June next, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold at the Office of Messrs Jerome Rice & Co., No. 327 Montgomery Street, San Francisco, on Wednesday, June 22nd, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of sale. L. E. MORGAN, Sec'y.

19-4t Office, Corner of Bush and Kearny Sts., San Francisco.

Great Central Mining Company, Weaver District, Arizona Territory.

Notice is hereby given, that there are delinquent upon the following described stock, on account of Assessment No. Two (2), levied Oct. 21st, 1863; Assessment No. Three (3), levied Dec. 26th, 1863; and Assessment No. Four (4), levied Feb. 12th, 1864, the several amounts set opposite the names of the respective shareholders, as follows:—

Name.	No. Cert.	No. Asst.	No. Shares.	Amt.
Battles, W W	05	2, 3 and 4	50	$37 50
Battles, W W	68	2, 3 and 4	25	18 75
Gerry, S R	67	3 and 4	25	12 50
Lawler, Jos	129	3 and 4	20	10 00
Morrill Bros	135	3 and 4	50	25 00
Mullen, W E	16	4	10	2 50
Nagle, Geo D	56	4	100	25 00
O'Brien, W	87	4	25	6 25
O'Brien, W	89	4	15	3 75
O'Brien, W	90	4	10	2 50
Rockwell, E A	114	2, 3 and 4	20	15 00
Rockwell, E A	115	2, 3 and 4	10	7 50
Rockwell, E A	110	2, 3 and 4	10	7 50
Rockwell, E A	117	2, 3 and 4	10	7 50
Seibel, Fred	83	4	25	6 25
Seibel, Fred	84	4	25	6 25
Seibel, Fred	85	4	15	3 75
Warfield, Alex	not yet issued.	3 and 4	100	50 00
Wigmore, John	59	2, 3 and 4	50	22 50

And in accordance with the laws of the State of California, and an order of the Trustees, made on the 28th day of March, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on WEDNESDAY, the day of June, A. D. 1864, to pay said delinquent assessment reon, together with the costs of advertising and the expenses of RICHARD S. CLARK, Secretary.

Office No. 610 Merchant street, San Francisco.

Rubicon Gold and Silver Mining Company, No 2, Location of Mine, Keys District, Owens' River, Mono County, California.

Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Rubicon Gold & Silver Mining Company, No. 2, there will be sold, at public auction, to the highest bidder, for cash in United States Gold Coin, on the 7th day of June, 1864, at 11 o'clock, A. M., of that day, at the office of the Company, No. 7 & 8 third floor, No. 302 Montgomery street, San Francisco, so many shares of the capital stock of the Company, standing in the names of the following persons or shareholders, as will be necessary for the payment of assessment No. 4 of ten (10) cents per share, duly levied thereon February 27th, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said assessment and necrulug charges are previously paid.

Names.	No. Asst.	Certif.	Shares.	Am't Due.
Bland Adnm	4	no cer	150	balance, $0 38
Bush Henry	4	no cer	150	15 00
Cook Sarah	4	no cer	125	balance, 6 11
Carter W P	4	no cer	75	7 50
Davis W G	4	493	55	5 50
Davis W G	4	604	25	2 50
Davis W G	4	605	25	2 50
Davis W O	4	606	25	2 50
Davis W G	4	607	25	2 50
Davis W G	4	608	25	2 50
Davis W G	4	609	25	2 50
Davis W G	4	692	12	1 20
Davis W G	4	no cer	28	2 80
Doud Pallo	4	no cer	131	12 12
Diggins Wesley	4		1500	150 00
Genung A M	4	no cer	150	balance, 9 37
Jeffress John	4	210	15	balance, 93
Jeffress John	4	242	0	balance, 37
Jeffress John	4	243	0	balance, 37
Jeffress John	4	244	12	balance, 75
Jeffress John	4	no cer	93	balance, 5 81
Kirby W L	4	316	50	balance, 3 13
Kirby, W L	4	310	25	balance, 1 50
Kirby, W L	4	no cer	35	balance, 2 15
Kneedler, John	4	246	12	balance, 75
Kneedler, John	4	247	60	balance, 3 13
Kneedler, John	4	346	5	balance, 31
Kneedler, John	4	no cer	58	balance, 3 62
Kimball, M H	4	no cer	75	balance, 2 50
Lovejoy, A J	4	71	25	balance, 1 50
Lovejoy, A J	4	262	12	balance, 75
Lane, Levi C	4	14	100	balance, 6 25
Lane, Levi C	4	15	25	balance, 1 50
Wheeler, Martin	4	5	25	balance, 1 56
Wheeler, Martin	4	35	30	balance, 1 87
Wheeler, Martin	4	40	25	balance, 1 50
Wheeler, Martin	4	41	25	balance, 1 50
Wheeler, Martin	4	no cer	575	42 18
Mitchell, D H	4	426	25	balance, 2 31
Mitchell, D H	4	436	12	balance 1 11
Mitchell, D H	4	437	12	balance, 1 11
Mitchell, D H	4	444	10	balance, 92
Mitchell, D H	4	447	12	balance, 1 11
Mitchell, D H	4	407	25	balance, 2 31
Myrick, J W	4	no cer	150	15 00
Miller, M M	4	587	150	15 00
O'Connell, James	4	257	50	balance, 3 12
O'Connell, James	4	258	50	balance, 3 12
O'Connell, James	4	259	25	balance, 1 56
O'Connell, James	4	260	25	balance, 1 56
Porter, Thos H	4	173	10	balance, 62
Porter, Thos H	4	no cer	105	6 50
Reynolds, Jno	4	no cer	450	45 00
Richards, I	4	423	80	balance, 4 29
Smith, Wm	4	201	25	balance, 1 56
Smith, Wm	4	202	25	balance, 1 50
Smith, Wm	4	203	25	balance, 1 56
Smith, Wm	4	204	25	balance, 1 56
Smith, Wm	4	205	25	balance, 1 50
Smith, Wm	4	206	25	balance, 1 56
Spencer, O W	4	618	50	5 00
Spencer, O W	4	6.0	18	1 80
Spencer, O W	4	no cer	1357	135 70
Shoemaker, F	4	721	4	40
Shoemaker, F	4	725	65	0 60
Ware, Jos	4	668	12	balance, 75
Ware, Jos	4	669	12	balance, 75
Ware, Jos	4	718	25	balance, 1 56
Ware, Jos	4	no cer	129	balance, 6 06

By order of the Board of Trustees.

J. P. VAN HAGAN, Secretary.

Office No. 302 Montgomery street, No. 7 and 8, third floor.

San Francisco, May 5th, 1864. 19-4t

Logan Gold and Silver Mining Company, Office, No. 528 Clay street, San Francisco, Cal. April 29th, 1864.

Notice is hereby given that in accordance with an order duly made by the board of Trustees of the Logan Gold and Silver Mining Company, there will be sold at public auction, by Jerome Rice & Co., at their salesroom, No. 327 Montgomery street, San Francisco, on Wednesday, June 8th, 1864, at 12 o'clock, M. to the highest bidder for cash, in Gold Coin, so many shares of the capital stock of the said company, standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay all assessments, now delinquent thereon, together with costs of advertising and all accruing charges, unless previously paid.

Names.	No. Shares.	No. Certif.	Asst's.	Am't due
Evan R. Evans	25	4	2nd	$25 00
Ellen A Spoor	10	15	2nd	10 00
R. McMurray	70	33	2nd	bal 51 00
E. S. Roberts	100	36, 121 to 124	2nd	100 00
Watkins Price	46	133	2nd	46 00
Thomas Waters	71	139	2nd	71 00
R. W. Myers	9	78, 97, 108	2nd	9 00
John C. Hay	10	29	2nd	10 00
John Jones	108	110, 113, 114	2nd	108 00
D. Temple	7	111	2nd	7 00

By order of the Board of Trustees.

19-5t B. W. MUDGE, Sec'y.

Walpi Gold and Silver Mining Company, Moss Lode, San Francisco District, Arizona Territory.

There is delinquent upon the following described stock, on account of assessments levied on the 21st day of March, 1864, the several amounts set opposite the names of the respective shareholders as follows:

Names.	Certifs.	Shares.	Amount
C. H. Doriot	17, 18, 19, 20, 21, 22, 23, 24	200	$100 00
E. Y. Mason	3, 4, 5, 6, 7, 8, 38, 39, 40	175	87 50
Wm. P. Pool	34, 36	10	5 00

And in accordance with law, and an order of the Board of Trustees made on the 21st day of April 1864, so many shares of each parcel of said stock as may be necessary will be sold at the salesroom of John Middleton & Son, No. 400 Montgomery street, San Francisco, on Saturday, June 11th, 1864, at 12 o'clock, M., of said day to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

W. AUGUSTUS KNAPP, Sec'y.

19-5t 620 Washington street, Room, 3.

Henry & Barnard Consolidated Gold, Silver and Copper Mining Company, Weaver District, Arizona Territory.

Notice.—There are delinquent, upon the following described stock, on account of Assessment levied on the ninth (9) day of March, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shares.	Amt.
S P Taylor,	104	2	50
S P Taylor,	195	2	50
S P Taylor,	190	2	50
S P Taylor,	197	2	50
S P Taylor,	198	2	50
S P Taylor,	201	2	50
S P Taylor,	212	2	50
S P Taylor,	213	2	50
S P Taylor,	215	2	50
S P Taylor,	210	2	50
S P Taylor,	219	2	50
S P Taylor,	222	2-5	10
S P Taylor,	300	5	$1 25
S P Taylor,	305	10	2 50
S P Taylor,	306	10	2 50
S P Taylor,	307	10	2 50
S P Taylor,	308	10	2 50
S P Taylor,	312	10	2 50
S P Taylor,	313	10	2 50
S P Taylor,	315	5	1 25
S P Taylor,	316	5	1 25
S P Taylor,	317	5	1 25
S P Taylor,	318	5	1 25
S P Taylor,	319	5	1 25
S P Taylor,	320	5	1 25
S P Taylor,	321	5	1 25
S P Taylor,	323	5	1 25
S P Taylor,	324	5	1 25
S P Taylor,	325	5	1 25
S P Taylor,	320	25	6 25
S P Taylor,	320	25	6 25
Wallace Everson,	60	10	2 50
Wallace Everson,	64	100	25 00
Wallace Everson,	67	5 1-5	1 30
John Landers,	101	50	12 50
John Landers,	102	50	12 50
John Landers,	103	10	2 50
John Landers,	104	20	5 00
John Landers,	106	5	1 25
John Landers,	107	15 1 5	3 80
Geo W Barnard,	22	20 4-5	5 20
Geo Bridges,	421	2	50
Geo Roland,	411	2	50

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of April, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on the first (1) day of June, 1864, at 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

GEO. W. GILDERSLEEVE, Secretary.

19-4t Office 334 Montgomery street, San Francisco.

Smith & Martin Gold and Silver Mining Company, Reese River District, Lander county, N. T. Office, No. 35 Government House, San Francisco, Cal.

Notice is hereby given that in accordance with the Laws of the State of California, and an order duly made by the Board of Trustees of the Smith & Martin Gold and Silver Mining Company, there will be sold at Public Auction, at the salesrooms of Messrs. Cobb & Sinton, No. 406 Montgomery street, San Francisco Cal., on Saturday, June 13th, A. D. 1864, at 11 o'clock A. M, of that day to the highest bidder, for cash, in United States coin, so many shares of the Capital Stock of said Company standing in the names of the following persons as will be necessary for the payment of an Assessment of fifty cents per share, duly levied thereon by the Board of Trustees, on the 9th day of March, A. D, 1864, together with the expenses of advertisement and sale, to wit, &c,

Names.	No. Certificates.	No. Shares.	Amt.
Henry Smith,	Cert—13, 14		
	Shs—10, 10	20	$10 00
George Warren,	23	6	2 50
R Martin,	Cert—31, 40		
	Shs—10, 7½	17½	8 75
F C Robinson,	Cert—49, 50, 51, 53		
	Shs—20, 20, 10, 5	55	27 50
J A Maynard,	Cert—55, 57, 58, 59, 61		
	Shs—20, 20, 10, 10, 5	65	32 50
J Leffingwell,		20	10 00
A E Minnica,	Cert—62, 63, 64, 67		
	Shs—20, 20, 20, 5	65	32 50
William Rose,	Cert—76, 77		
	Shs— 5, 5	10	5 00
F F Hatfield,	Cert—82, 83, 84		
	Shs—10, 5, 7½	22½	11 25
Samuel Donnelly,	Cert—93, 121		
	Shs—7½, 2½	10	5 00
William Murphy,	95	5	2 50
E S Davis,	Cert—97, 98, 99		
	Shs—10, 5, 7½	22½	11 25
William Calnan,	100	0	4 50
David McDaniel,	7	15	7 50
C F Morrell,	10	10	5 00
Robert Rankin,	1	15	7 50
I W Doss,	101	5	2 50
Thomas McCartney,	113	2½	1 25
J G Dows,	122	10	5 00
W C Daggett,	Cert—125, 128, 132		
	Shs— 5, 5, 5	15	7 50
R S Cassinger,	127	10	5 00
W W Nixon,	130	10	5 00
W Wallin,	134	10	5 00
Isaac S Titus,	135	10	5 00

19-4t ROBERT T. POLK, Secretary.

Union Gold and Silver Mining Company,

Russ District, Tulare County, California.

NOTICE.—The Stockholders of the above named Company, are requested to hand in to the Secretary, their Certificates of Stock in the above named Company without delay, and receive in lieu thereof, Certificates of Stock of the Eclipse Gold and Silver Mining Company, as per resolution unanimously adopted at the Stockholder's meeting, held April 26th, 1864.

By order of the President. JAS. C. NORRIS, Sec'y.

San Francisco, May 3d, 1864. 19-4t Office, 430 Jackson street.

Sore Throat, Cough, Colds, and similar troubles, if suffered to progress, result in serious Pulmonary, Bronchial and Asthamatic affections; oftentimes incurable.

BROWN'S BRONCHIAL TROCHES

are compounded so as to reach directly the seat of the disease and give almost instant relief.

Agents for California, Rennington & Co., San Francisco. 19-1m

MINING NOTICES—APRIL 30th.

Scorpion Silver Mining Company, Virginia

District, Nevada Territory.

Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Scorpion Silver Mining Company, there will be sold, at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery St., San Francisco, on Saturday, May 28, 1864, at 11 o'clock A. M. of that day, to the highest bidder for cash, in U. S. coin, so many shares of the capital stock of said Company, standing in the names of the following shareholders, as will be necessary for the paymen of an assessment of twenty-five cents per share, duly levied thereon, by the Board of Trustees, on the 21st day of March, A. D. 1864, and assessments previous thereto, together with the expenses of advertisement and sale, to wit:

Names.	Shares.	Assessments—No 20	No 21	No 22	No 23	No 24	No 25,	Amt due.
B Bayerque	12						$3 00	$3 00
J T Hartwell	16					4 00		4 00
J L Butford	59				14 75	14 75	14 75	44 25
S F Butford	24						6 00	6 00
C Broad	10						2 50	2 50
F Boilleau	10			2 50	2 50	2 50	2 50	10 00
Mrs L H Baker	10		2 50	2 50	2 50	2 50	2 50	12 50
S E Barnard	1			25		25		1 00
Rebecca Bones	4					1 00	1 00	2 00
S L Cotran	20		5 00	5 00	5 00	5 00	5 00	25 00
L Chopard	2				50	50	50	1 50
L E Coleman	3					50	50	1 00
Chas Clayton	5						1 25	1 25
C Chevallier	16				4 00	4 00	4 00	12 00
F Crozet	19						4 75	4 75
W D Dyer	12			3 00	3 00	3 00	3 00	12 00
— Deuisch	3						75	75
A Esnault	24						6 00	6 00
M Eldred Jr	115						28 75	28 75
A Finance	50						12 50	12 50
E D Feusier	8			50	50	50	2 00	3 50
H Feusier	4						1 00	1 00
C Gignoux	10						2 50	2 50
A Gorlinkie	5						1 25	1 25
F Henderson	228			57 00	67 00	57 00	57 00	171 00
J T Helmken	10						2 50	2 50
H Henisch	10			2 50	2 50	2 50	2 50	10 00
B A Hendrickson	5						1 25	1 25
L Heywood	5						1 25	1 25
J R Hughes	12				3 00	3 00	3 00	9 00
N T Johnson	12			2 50			2 50	5 00
John Kelly	49				6 00	12 25	12 25	30 50
J B Lafargue	2				50	50	50	2 00
A J McCabe	100					25 00	25 00	50 00
W W Morgan	2				50	50	50	2 00
John McKewen	9						2 25	2 25
John Paine	3	75	75	75	75	75	75	4 50
Emeline A Paine	3	75	75	75	75	75	75	5 50
M Pratt	2						50	50
P Robinson	100						25 00	25 00
Robt Sherwood	200						50 00	50 00
Herman Smith	10						2 50	2 50
Emma R Scheper	1						25	25
P G Venard	24					5 00	6 00	12 00
Henry Vesh	5						1 25	1 25
G Venard	20					5 00	5 00	10 00
E D Waters	12						3 00	3 00
Eliza A Waters	12						3 00	3 00
Ella Waters	1						25	25

By order of the Trustees.

W. H. MARTIN. Secretary.

San Francisco, April 23, 1864. (18-4t) 627 Clay street.

Palma Silver Mining Company, Locality of Mine, District of Ures, State of Sonora, Mexico.

Notice.—There are delinquent, upon the following described stock on account of assessment No. 2, levied February 13th, 1864, and assessment No. 3, levied on the 25th day of March, 1864, the several amounts set opposite the names of the respective shareholders a follows:

Names.	Asst.	No. Cert.	No. Shs.	Amts
J. O'Dell	2	19	20	$20 00
J. O'Dell	3	19	20	40 00
F. Dodge	2	20	20	20 00
F. Dodge	3	20	20	40 00
Henry Chester	2	21	10	10 00
Henry Chester	3	21	10	20 00
Thos. Miller	2	23	10	10 00
Thos. Miller	3	23	10	20 00
W. C. McElharan	2	25	10	10 00
W. C. McElharan	3	25	10	20 00
David Fogerty	2	26	10	10 00
David Fogerty	3	26	10	20 00
John Lockwood	2	29	5	5 00
John Lockwood	3	29	5	10 00
J. R. Stone	2	78, 79, 80, 82, 83	85, 86, 70	70 00
J. R. Stone	3	78, 79, 80, 82, 83	85, 86, 70	140 00
Jesse Gelb	2	31	20	20 00
Jesse Gelb	3	31	20	40 00
Paul Corno	2	32	25	25 00
Jos. Van Doren	3	15	100	200 00
D. A. Wyman	3	22	10	20 00
A. B. Bronson	3	30	25	50 00
James Hulburt	3	141	15	30 00
Geo. A. Moore	3	74, 87	20	40 00
J. W. Sargent	3	23, 34, 35, 36, 37, 38, 39, 60		120 00
A. Z. Vallean	3	140	10	20 00
Geo. K. Phillips	3	147, 148, 149	15	30 00

And in accordance with law, and an order of the Board of Trustees, made on the 25th day of March, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the sales room of Jerome Rice & Co., on the 30th day of May, 1864, at the hour of 12 o'clock, M., of said day, to pay said delinquent assessment thereon, together with costs of Advertising and expenses of the Sale.

GEORGE L. FAULKNER, Sec'y.

18t5t Office, 411 Clay Street, San Francisco.

Gobernadora Silver Mining Company, San Antonio District, Lower California.—Office, 625 Clay street, San Francisco, California.

Notice is hereby given, that in accordance with an order duly made by the Board of Trustees of the Gobernadora Silver Mining Company, there will be sold, at Public Auction, by Jerome Rice & Co., Auctioneers, at their salesroom, No. 327 Montgomery street, San Francisco, on MONDAY, May 30th, 1864, between the hours of 11 A M. and 2 P. M. of that day, to the highest bidder for cash, in United States coin, so many shares of the capital stock of Said Company, standing in the names of the hereinafter mentioned stockholders as will be necessary to pay all assessments now due thereon, together with cost of advertising and all accruing charges, unless the same be previously paid:

Names.	No. Shs.	Amt due	Names.	No. Shs.	Amt due.
John Brazer	130	$78 00	W. H. Knapp	105	$63 00
William Foss	5	3 00	H. Kilham	50	30 00
B. F. French	10	6 00	Chas. McDonald	20	12 00
N. E. Grimes	10	6 00	Thos. McDonough	5	3 00
Wm. Hazeltine	18	10 80	Chas. F. Nottle	20	12 00
A. H. Jordan	50	30 00	J. W. Sprague	120	72 00
R. A. Sanford	3	1 80			

By order of the Board of Trustees.

18-5t C. W. HAYDEN, Secretary.

Pena Silver Mining Company.—Location of Mine, Lower California.—Office of Company, 411 Clay street, San Francisco.

Notice.—There are delinquent, upon the following described stock of the above named Company, on account of Assessment No. 3, levied on the 25th day of November, 1863, and Assessment No. 4 levied on the 23d day of March, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Assts.	No. Cert.	No. Shs.	Amt.
G. E. Schenck	3	75	3½	5 25
B. A. Bidlack	3 and 4	65	16 2-3	$25 01
J. G. Dow	3 and 4	50	10	25 00
J. G. Dow	do	51	10	25 00
J. G. Dow	do	52	10	25 00
J. G. Dow	do	53	3 1-3	8 33
J. G. Dow	do	148	16 2 3	41 67
James H. Stone	4	112	22 1-3	22 33
James H. Welch	4	150	26 1-3	26 33
G. W. Botts	4	142	8 1-3	8 33
Geo. B. Lillie	4	159	14 2-3	14 67
J. F. Borland	4	89	8 1-3	8 33
F. G. Norman	4	92	8 1-3	8 33
F. G. Normau	4	170	0 1-3	6 33
I. N. Thorne	4	83	18 1-3	18 33
J. W. Sargent	4	58	16 2 3	10 67
J. W. Sargent	4	50	16 2-3	16 67
Timothy Sargent	4	60	10 2-3	16 67
Mrs. H. A. R. Carter	4 (not iss'd)	155	3 1-2	3 50
David Ross	4	80	9 2-3	9 07
Susan E. Thorne	4	82	10	10 00
Susan J. Bryant	4	81	5	5 00
George A. Moore	4	111	3	3 00
John Todd	4	105	5 2-3	5 67
John Todd	4	144	3	3 00
Charles Geddes	4	151	1	1 00
James Delaney	4	152	2 1-3	2 33
A. H. Hagadorn	4	168	8 1-3	8 33
W. H. Baxter	4	173	67	67 00
R. C. Jacobs	4	137	32 2 3	32 67
R. C. Jacobs	4	32	0 2 3	6 67
Charles E. Brownell	4	118	4	4 00
Charles E. Brownell	4	139	3	3 00
Charles E. Brownell	4	140	8 2-3	8 07

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of March, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, on the 30th day of May, 1864, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and exposnes of the sale.

April 26th, 1864. (18-4t) WM. FAULKNER, Secretary. Office 411 Clay street, San Francisco.

La Marronena Silver Mining Company.—Location of Mine, Lower California.

Notice.—There are delinquent upon the following described stock of the above named Company, on account of Assessment No. 3, levied on the 25th day of November, 1863, and Assessment No. 4, levied on the 23d day of March, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shares.	Amt.
B A Bidlack (bal of 3d ass't)	33	13 14-22	$13 63
B A Bidlack (4th ass't)	33	13 14-22	88 22
J H Stone,	149	14 17-22	73 83
J H Stone,	152	1 1-22	5 45
J H Welch,	4	22 8-22	111 81
J H Welch,	156	2	10 00
J W Sargent,	8	27 6-22	136 33
Timothy Sargent,	9	13 14-22	68 22
G W Bolts,	88	6 18-22	31 10
George B Lillie,	16	13 14-22	88 22
J J Corrigan,	84	9 2 22	45 45
J J Corrigan,	86	9 2-22	45 45
J J Corrigan,	99	6 2-22	30 45
F G Norman,	167	11 14-22	58 22
J G Dow,	135	10	50 00
J G Dow,	136	10	50 00
J G Dow,	94	13 14-22	68 22
Miss M A Phillips,	157	21 6-22	106 55
Edson Samnis,	58	19 16-22	98 68
Jas F Dorland,	39	6 18 22	34 10
John Todd,	41	4 14-22	23 22
John Todd,	90	2	10 00
David Ross,	42	7 20-22	39 56
Susan J Bryant,	45	4 2-22	20 45
Susan E Thorne,	44	8 4-22	40 90
Geo A Moore,	61	2 10-22	12 27
Geo A Moore,	66	1-2	2 50
E B Gifford,	95	7	35 00
Jas Delaney,	98	3	15 00
C Sabin,	100	4 1-2	22 50
Geo W Thompson,	107	4	20 00
H K Snow,	183	2	10 00
H W Snow,	148	1	5 00
H O Howard,	161	5	25 00
Frank C Snow,	164	2	10 00
R C Jacobs,	123	10	50 00
R C Jacobs,	124	10	50 00
R C Jacobs,	131	8	40 00
Mrs C E Brownell,	154	5 14-22	28 22

And in accordance with law, and an order of the Board of Trustees made on the 23d day of March, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on the 30th day of May, 1864, at the hour of 12 o'clock, M., of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

18-4t WM. FAULKNER, Secretary.

April 26, 1864. Office 411 Clay street, San Francisco.

Table Mountain Copper Mining Company, Stanislaus

District, Calaveras county, California.—Office 615 Clay street, San Francisco, April 30th, 1864.

Notice is hereby given, that in accordance with the laws of the State of California, and the by-laws of the Company, there will be sold, at Public Auction, to the highest bidder, for cash, in U. S. gold coin, on WEDNESDAY, June 1st, 1864, at 10 o'clock A. M. of that day, at the office of the Company, 615 Clay street, San Francisco, so many shares of the capital stock of this Company, standing in the names of the following persons, as will be necessary for the payment of Assessment No. 5, of fifty cents per share, duly levied thereon March 25th, 1864, by the Board of Trustees, together with the expenses of advertising and sale:

Names.	No. Certificates.	No. Shares.	Am't due.
Wm. H. Geddes	33	16	$8 00
Wm. H. Geddes	31, 35, 36, 37, 38	10 each	25 00
A. H. A. Mason	143	133	66 50
L. W. McLaughlin	167	5	2 50
Lewis McLaughlin	125	5	2 50
B. F. Ogden	86	10	5 00
Wm. Boyer	204	10	5 00
Levi Drew	205	5	2 50
E. W. Linsley	181	2	1 00

By order of the Board of Trustees.

18-4t M. C. ELMORE, Secretary.

Cocheco Gold and Silver Mining Company, Office, 625 Clay street, San Francisco, California. Location, Humboldt District, N. T.

Notice is hereby given that in accordance with an order duly made by the Board of Trustees of the Cocheco Gold & Silver Mining Company, there will be sold at public auction at the Office of the Company, on Monday, May 30th, 1864, at 12 o'clock, M., to the highest bidder for cash, in U. S. Coin, so many shares of the Capital stock of said Company standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay all assessments now delinquent thereon, together with cost of advertising and all accruing charges, unless the same be previously paid.

Names.	No. shs.	Amt due	Names.	No. shs.	Amt due
Geo Acker	20	10 00	Henry Michaels	10	2 50
Mrs M A Torrey	30	15 00	N A Watson	50	12 50
Adrian Spear	10	5 00	Chas H Aitken	10	2 50
L Corey	30	15 00	P J Barber	25	0 25
Sam'l S Davis	20	10 00	A Burrill	10	2 50
N B Mulville	197	98 50	A Levy	1	25
Wm T Towle	15	7 50	S Reerdon	10	2 50
Miss Amelia Eaton	10	5 00	G B Hudson	10	2 50
T T Kneeland	50	25 00	A McCormick	5	1 25
Thomas Williams	5	2 50	John Lewry	10	2 50
Carlos Mills	3	1 50	C Gignoux	10	2 50
Wm H Manning	200	100 00	J B Bloomingdale	10	2 50
A B Schafer	50	25 00	Lydia Stewart	10	2 50
W H Vanderwater	35	17 50	B M Barker	10	2 50
W H Mills	305	150 00	J R Nealy	5	1 25
Chas McDonald	40	10 00	A W Garrett	10	2 50
W B Allen	10	2 50	John Taylor	5	1 25
Henry Mahoney	5	1 25	Calh M Gilbert	10	2 50
Thomas Brown	5	1 26	J Hamilton	50	12 50
W H Harvey	15	3 75	J N Sowal	100	25 00
S P Coruwall	10	2 50	D Conrad	10	2 50
Carolino T Hall	10	2 50	Dr H Austin	10	2 50
Dan'l H Mitchell	25	6 25	H H Schafer	50	12 50
A N Byfield	65	16 25	Paul Rousso	10	2 50
J B Wells	20	5 00	Warren Holt	20	5 00
Henry Moss	50	12 50	Margaret Upton	10	2 50
Geo Robinson	50	12 50	S Cohen	5	1 25
Jas Drury	30	7 50	Tabor & Hill	40	10 00
Richard Hall	20	5 00	Law Mok	20	5 00
F Broilleau	35	8 75	Joseph Wells	100	25 00
T H Downing	6	1 50	G T Sewal	10	2 50
Edmund Loug	3	75	Thomas Prince	50	12 50
Jas R Gates	50	12 50	J G Klumpko	60	15 00
N Atkinson	228	57 00			

By order of the Board of Trustees.

18-5t C. W. HAYDEN, Sec'y.

Scottie Gold and Silver Mining Company, Office, No. 523 Clay street, San Francisco, California, April 12th, 1864.

Notice is hereby given that in accordance with an order duly made by the Board of Trustees of the Scottie Gold & Silver Mining Company, there will be sold, at public auction, by Jerome Rice & Co., at their salesroom, No. 327 Montgomery street, San Francisco, on Tuesday, May 31st, 1864 at 12 o'clock, M., to the highest bidder for cash, in United States Coin, so many shares of the Capital Stock of the said Company, standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay all assessments, now delinquent thereon, together with costs of advertising and all accruing charges, unless previously paid.

Names.	No. Shs.	No. Cert.	Assts.	Amt.
R. Barney	33	41	2nd & 3d	$49 50
S. C. Wright	8	46	2nd & 3d	12 00
R. B. Lovejoy	3	51	3d	3 00
A. K. Durgin	5	89	2nd & 3d	7 50
L. De Young	5	112	3d	5 00
Maria Cohn	5	113	3d	5 00
Eliels De Young	5	127	3d	5 00
John W. Shore	50	128	3d	50 00
H. Dockweiler	10	129	3d	10 00
A. K. Durgin	2	131	1st 2nd & 3d	4 00
W. R. Creeley	10	141	2nd & 3d	15 00
James Hanna	20	5	1st 2nd & 3d	40 00
P. P. Wood	40	165 to 168	3d	40 00
J. McGinn	25	180	3d	25 00
W. W. McCoy	20	95 & 96	1st 2nd & 3d	40 00
W. W. McCoy	25	13	1st 2nd & 3d	50 00
W. W. McCoy	3½	23	1st 2nd & 3d	7 00
W. W. McCoy	15	125	1st 2nd & 3d	30 00

By order of the Board of Trustees.

18-5t B. W. MUDGE, Secretary.

Mount Eden Mining Company, Owen Lode, Gold, Hill District, N. T.

Notice, There are delinquent, upon the following described Stock on account of assessment heretofore levied, the several amounts set opposite the names of the respective Shareholders, as follows:

Names.	No. Assts.	No. Cert.	No. Shs.	Amt.
*Bonestell, L. H.	1 and 2	59	20	$30 00
*Bonestell, L. H.	1 and 2	60	10	15 00
Barker, S.	1 and 2	28	10	15 00
Barker, S.	1 and 2	29	10	15 00
Barker, S.	1 and 2	30	5	7 50
Brewer, F. A.	1 and 2	93	5	7 50
*Congdon, H. B.	1 and 2	91	10	15 00
*Congdon, H. B.	1 and 2	82	5	7 50
McKinaly, Henry	2	42	10	6 00
McKinaly, Henry	2	43	10	6 00
White, Robt.	2	10	5	2 50

*Sold but not transfered.

And in accordance with law, and an order of the Board of Trustees, made on the 15th day of April, 1864, so many shares of each parcel of said Stock as may be necessary, will be sold at Public Auction at the Auction room of John Middleton, No. 400 Montgomery street, on the 31st day of May, 1864, at the hour of 12 o'clock, M. of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

H. B. CONGDON, Secretary.

18-5t Office, No. 620 Washington street, San Francisco.

Coal Creek Coal Mining Company.

Located near Geyserville, Sonoma County, California, containing 320 acres.

CAPITAL STOCK,.....$120,000

600 Shares.....$200 Per Share.

Office of the Company, Room, 18 Phœnix Building, corner of Sansome and Jackson streets, San Francisco.

A. P. McCARTY.....President.
D. S. CUTTER,.....Secretary & Treasurer.

TRUSTEES:

JOHN J. HUCKS,.....San Francisco.
GEO. H. BAKER,.....San Francisco.
P. T. ARCHAMBOU,.....Geyserville.

19-3m

Mining and Scientific Press.—This is one of our most valuable exchanges. It comes to us filled with the most valuable articles, original and selected, upon the subject of mining, and we eclescribe it to an awful extent. Every person engaged in mining to any extent, should be a subscriber to the Press.—*Gold Hill News.*

MINING NOTICES—APRIL 30th.

Umatilla Gold and Silver Mining Company, Reese River District, Lander County, Nevada Territory. Office, Corner of Bush and Kearay sts., San Francisco.

Notice is hereby given that the annual meeting af Stockholders of the Umatilla Gold nnd Silver Mining Company, Reese River District, Lander county, N. T., for the election of n Board of Trustees to serve for the ensuing year, and the transaction of any other business that may come before the meeting, will be held at the Office of the Company, In tbe City of San Francisco, on TUESDAY, the 17th day of May, 1864, at 7½ o'clock, P. M.

17 L. E. MORGAN, Secretary.

Notice.—The Annual Meeting of the Stockholders of the Mountain Mary Gold and Silver Mining Company, will be held at the Office of the Company, 430 Montgomery street, San Francisco, on the third Saturday in May next, for the purpose of electing three Trustees. J. WARREN CLARK, Sec'y.

San Francisco, April 27th, 1864. 18-4t

Wide West Copper Mining Company, Stanislaus District, Calaveras county, Cal.

A STOCKHOLDERS' MEETING of the Wide West Copper Mining Company will be held at the office of the Company, No. 645 Clay street, on Tuesday, May 31st, 1864, at 7½ P. M., for the election of officers, and such other business as may come before it.

M. G. ELMORE, Secretary.

San Francisco, April 29th, 1864. 18-4t

Penn Silver Mining Company.—Notice is hereby given that the annual meeting af the Stockholders, of the "Pena Silver Mining Company," will be held at the Office of the Secretary, No. 411 Clay street, on WEDNESDAY, the 8th day of June, 1864, at 7 o'clock, P. M., for the purpose of electing n Board of five Trustees for the ensuing year. By order.

WM. FAULKNER, Secretary.

April 26 1864. (18-4t) Office, 411 Clay street San Francisco.

La Marronena Silver Mining Company.—Notice is hereby given that the annual meeting of the Stockolders of the La Morrenena Silver Mining Company will be held at the Office of the Secretary, No. 411 Clay street, on WEDNESDAY, the 8th of June, 1864, at 4 o'clock, P. M., for the purpose of electing a Board of Trustees for the easuing year. By order.

WM. FAULKNER, Secretary.

April 26, 1864. (18-4t) Office, 411 Clay street, San Francisco.

Storm Cloud Silver Mining Company, Reese River District, N. T.

Notice is hereby given that in accordance with the by-laws of the Company, the first quartely meeting of the Stockholders of the Storm Cloud Silver Mining Company, for the election of Trustees, and transaction of other business, will be held, at the Office of the Secretary, No. 624 Montgomery St., San Francisco, on MONDAY May 30th, 1864, at 3 o'clock, P. M. By order of the Board of Trustees

18-4t H. H. McCOUGHTRY, Secretary.

Bay City Silver Mining Company, Reese River District, N. T.

Notice is hereby given that in accordance with the by-laws of the Company, the first quartely meeting of the Stockholders of the Bay City Silver Mining Company, for the election of Trustees and the transaction of other business, will be held at the office of the Secretary, No. 624 Montgomery street, on MONDAY, June 6th, 1864, at 3 o'clock, P. M. By order of the Board of Trustees.

18-4t H. H. McCOUGHTRY, Sec'y.

Cortez Gold and Silver Mining Company, Cortez District, Nevada Territory.—San Francisco, April 28, 1864.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 27th day of April, 1864, an Assessment of two dollars and fifty cents per share was levied upon the capital stock of said Company, payable immediately, in gold coin of the United States of America, to the Secretary, at the office of the Company, 706 Montgomery street, San Francisco.

Any stock upon which said Assessment shall remain unpaid on the 2d day of June, 1864, will be advertised on that day as delinquent, and, unless payment shall be made before, will be sold on the 20th day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of sale.

R. N. VAN BRUNT, Secretary,

18-4t No. 706 Montgomery street, San Francisco.

Mountain Mary Gold and Silver Mining Company, Silver Mountain, Alpine county, Cal.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held April 23d, 1864, an assessment of twenty-five cents per share was duly levied, payable in U. S. Gold coin, to the Secretary, J. Warren Clark, 430 Montgomery Street, San Francisco, (room No. 5, 3d floor), or to COUNCIL GOODELL, Superintendent, Silver Mountain.

Any stock upon which said assessment shall remain unpaid on tha 28th day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 16th day of June, 1864, to pay the delinquent assessment and costs of advertising and expenses of sale. By order of the board of Trustees.

J. WARREN CLARK, Sec'y.

18-4t Office, 430 Montgomery street.

George Lect Gold and Silver Mining Company, Crown Point Tunnel and Mining Company, Reese River Mining District, N. T.

Notice is hereby given, that at a meeting of the several Boards of Trustees of said Companies held on the 25th day of April, 1864, an assessment of fifty (50) cents per share was levied upon the Capital Stock of said Companies, payable immediately, in United States Gold coin, to the Secretary, at his Office, No. 5 9 Clay Street, or to S. F. AMBLER, at Austin, N. T.

Any Stock upon which said assessment shall remain unpaid on Saturday, the 28th day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 15th day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

D. B. FRANCIS, Secretary.

18-4t Office, 509 Clay St., San Francisco.

Is is full of the most valuable reading matter. Those at all interested in mining affairs should subscribe for it at once.—*Alameda Gazette.*

It is devoted to news, art, science and progress, and should receive a liberal support.—*Solano Press.*

Tellurium Gold and Silver Mining Company, Pine Grove, Amador county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 21st day of April, 1864, an Assessment of one dollar per share was levied upon the Capital Stock of said Company, payable on the 23d day of April, 1864, in United States gold and silver coin, to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 4th day of June, 1864, to pay the delinquent Assessment, together with costs of Advertisiag and expenses of the sale. By order of the Board of Trustees.

WM. H. MARTIN, Secretary.

Office, 627 Clay street, San Francisco. 17-4t

Grafton Gold & Silver Mining Company, Reese River Mining District, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 25th day of April, 1864, an assessment of thirty (30) cents per share was levied upon the Capital Stock of said Company, payable immediately, in United States Gold Coin, to the Secretary, at his Office, No. 509 Clay St., or to S. F. AMBLER, at Austin, N. T.

Any Stock upon which said assessment shall remain unpaid on Saturday the 28th day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 15th day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

D. B. FRANCIS, Sec'y.

18-4t Office, 509 Clay Street, San Francisco.

Gobernadora Silver Mining Company, San Antonio District, Lower California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 28th day of April, 1864, an Assessment of one dollar per share was levied upon the Capital Stock of said Company, payable on the 30th day of April, 1864, in United States gold coin to the Secretary, at the office of the Company.

Any stock upon which said Assesment shall remain unpaid on Saturday, the 28th day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 11th day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

C. W. HAYDEN, Secretary.

18-4t Office, 625 Clay street, San Francisco.

Lewis Consolidated Gold and Silver Mining Company. Nicolaus Gold and Silver Mining Company, Reese River Mining District, N. T.

Notice is hereby given, that at a meeting of the several boards of Trustees of said Companies held on the 25th day of April, 1864, an assessment of twenty-five cents per share was levied upon the Capital Stock of said Companies, payable immediately, in United States Gold Coin, to the Secretary, at his Office, 509 Clay St., or to S. F. AMBLER, at Austin, N. T.

Any Stock upon which said assessment shall remain unpaid on Saturday, the 28th day of May, 1861, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 15th day of June, 1864, to pay the delinquent assessment, together with costs of Advertising and expenses of the sale. By order of the Board of Trustees.

D. B. FRANCIS, Secretary.

18-4t Office, 509 Clay Street, San Francisco.

Eureka Mill and Mining Company, Big Creek District, Lander county, N. T.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 25th day of April, 1864, an assessment of five ($5) dollars per share was levied upon the Capital Stock of of said Company, payable immediately, to the Secretary, or to R W. BRETT.

Any stock upon which said assessment shall remain unpaid on Saturday, May 28th, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, June 11th, 1864, at 12 o'clock M. to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. N. DUPERU, Sec'y.

18-4t Office, No. 208 California St., San Francisco.

CAUTION.

Enterprise Gold and Silver Mining Company.— Location, El Dorado Canon, Territory of Arizona.

The public are hereby cautioned against purchasing the following Certificates of Stock of the above named Company, the same having been sold, by order of the Board of Trustees, to pay assessments delinquent—to wit:

Names.	No. Certificate.	Shares.
T. H. Williams	2, 4, 5, 7, 8	20, 10, 10, 30, 20
	10, 11, 18, 19, 20	20, 10, 25, 25, 25
	21, 45, 97, 98, 99, 100	25, 5, 5, 5, 5, 5
M. D. Fairchilds	14	35
Jacob Heintz	40	5
Joseph F. Ridler	103	5
A. M. Bennett	15, 92	not issued, 27, 10, 5
S. L. De Lano	46	10
Abraham Jones	102	10
C. A. James	26, 82, 00, 01	5, 5, 5, 10
J. P. Clark	24	20
O. E. Johnson	28, 93, 94	15, 5, 5
C. Fink	39	5
Robert Keir	30, 31, 32	25, 25, 25
Alexander Kier	33, 34, 35	25, 25, 25
William Wosencraft	36, 37, 38	25, 25, 25
Thomas Brown	77	5
C. W. Young	85, 86, 88	2, 2, 1
John Miller	79, 80	50, 50
Columbia Dyer	89	5
F. A. Burch	76	10

L. B. WOOSTER, Secretary,

18-4t 622 Washington street, San Francisco.

NOTICE.

Is hereby given that from and after July 1st, 1864, the principal Office of the Savage Copper Mining Company Situated in Zine House District Nevada County, California—will be in Lincoln, Placer County, California. A. BATEMAN, Sec'y,

17-1m Lincoln, April 18, 1864.

MINING NOTICES—APRIL 23d.

Lord Byron Gold and Silver Mining Company, Devil's Gate District, N. T.

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 16th day of April, 1864, an assessment of one dollar per share was levied upon the Capital Stock of said Company, payable on the 23d day of April, 1864, in U. S. Gold coin, to the Secretary or to R. McMORRAY, Esq., Supt. at Silver City, Nevada Territory.

Any Stock upon which said assessment shall remain unpaid on Saturday, the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 4th day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

H. B. CONGDON, Sec'y.

Office, 620 Washington St., Room No. 3. 17-4t

Silver Star Gold and Silver Mining Company, Virginia District, Storey county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 21st day of April, 1864, an Assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable on the 22d day of April, 1864, in United States gold and silver coin, to the Secretary at the office, or to Daniel Nowlan, Virginia City.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday the 8th day of June, 1864, to pay the delinquent Assessment, together with the costs of Advertising and expenses of the sale. By order of the Board of Trustees.

WM. E. MOODY, Secretary.

Office, No. 706 Montgomery street, San Francisco, 17

Rubicon Gold & Silver Mining Company No. 1. Rubicon Gold & Silver Mining Company No. 2. Rubicon Gold & Silver Mining Company No. 3. Rubicon Gold & Silver Mining Company No. 4.—Keys District, Mono county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Companies, held on the 18th day of April, 1864, an Assessment of ten cents per share was levied upon the capital stock of said Companies, payable immediately, in U. S. gold coin, to the Secretary, at the office of the Companies, No. 302 Montgomery street, San Francisco. Any stock upon which said Assessment shall remain unpaid on Saturday, the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on FRIDAY, the 10th day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees,

J. P. VAN HAGAN, Secretary.

Office, Rooms 7 and 8, third floor, No. 302 Montgomery street, San Francisco. 17-4t

Queen of Antilles Consolidated Gold and Silver Mining and Tunnel Company, Lander county N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of March, 1864, an Assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable on the 9th day of April, 1864, in United States gold coin, to the Secretary at his office 523 Clay street, San Francisco, or to the Superintendent, H. Henderson, Austin, N. T. By order of the Board of Trustees.

G. B. LARRABEE, Secretary.

Office, 523 Clay street, San Francisco. 17-4t

Pearson Gold and Silver Mining Company, Lander County, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of March, 1864, an Assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable on the 9th of April, 1864, in United States gold coin to the Secretary at his office, 523 Clay street, San Francisco, or to the Superintendent, G. W. Leet, at Austin, Lander county, N. T. By order of the Board of Trustees.

G. B. LARRABEE, Secretary.

Office, 523 Clay street, San Francisco. 17-4t

Silver Star Gold and Silver Mining Company.—Office No. 706 Montgomery street, San Francisco.

Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Silver Star Gold and Silver Mining Company, there will be sold, at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on WEDNESDAY, May 25th, 1864, at 11 o'clock A. M. of that day, to the highest bidder, for cash, in U. S. gold coin, so many shares of the capital stock of said Company, standing in the names of the following shareholders, as will be necessary to pay the Assessments duly levied thereon, and now being due and unpaid, together with the expenses of advertising and sale—to wit:

Names.	No. of Certifs.	No. of Shares.	No. of Assts.	Amt.
Henry Gerke	—118 to 124, 126 to 135, 137 to 145, 245	610	3 & 4	$549 00
Sol A. Sharp	221	50	3 & 4	45 00
A. J. Banker	317	20	4	10 00
E. Chaquette	315	25	4	12 50

By order of the Board of Trustees.

17-4t WM. E. MOODY, Secretary.

Exchange Gold and Silver Mining Company, Reese River District, Lander county, N. T.

Notice is hereby given, that at a meeting of the Board of said company, held on the 30th day of April, 1864, an assessment of 25 cents per share was levied upon the Capital Stock of said company, payable immediately, in U. S. Gold Coin, to the Secretary, or to CHARLES H. FISKE, Austin, N. T.

Any stock upon which said assessment shall remain unpaid on the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 22d day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the board of Trustees. C. W. M. SMITH, Secretary.

19-4t Office, No. 29 Gov't House, San Francisco.

Lost.

Certificates Nos. 433 & 49 of the Great Consolidated Boise River G. & S. M. Co., of five shares each, standing in the name of J. W Reed. All persons are hereby cautioned against purchasing the same as their transfer has been stopped on the books of the company. J. W. REED.

San Francisco, May 4th, 1864. 19-4t

MINING NOTICES—APRIL 23d.

Meteor Gold & Silver Mining Company, Reese River District, Nevada Territory.
Pontiac Gold & Silver Mining Company, Reese River District, Nevada Territory.
Hyack Gold & Silver Mining Company, Reese River District, Nevada Territory.
Butler Gold & Silver Mining Company, Reese River District, Nevada Territory.
Enterprise Gold & Silver Mining Company, Reese River District, Nevada Territory.
Essex Gold and Silver Mining Company, Reese River, District, Nevada Territory.

Notice is hereby given, that, in accordance with the laws of the State of California, and in pursuance of orders made by the respective Boards of Trustees of the above named Companies, at meetings held on the 19th day of October, A. D. 1863, a sufficient number of shares of the capital stock of each of the above Companies, standing in the names of the following persons, will be sold at Public Auction, to the highest bidder, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, in the city and county of San Francisco, on WEDNESDAY, the 25th day of May, A. D. 1864, at 11 o'clock A. M., of that day, to pay Assessment No. 1, of each of them, of 20 cents per share, all levied on the 19th day of October, A. D. 1863, due and delinquent, together with all costs accruing from advertising sale, etc., if not previously paid.

METEOR GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
Daniel Liggett	20	$4 00
E A Isaacs	166⅔	33 35
Frank Snow	166⅔	33 35
John A Weaver	96¾	19 35
John A Weaver	70	14 00
George W Leet	101¾	20 35
W W Hartman	33⅓	6 67
W W Hartmau	83⅓	16 67
R Smith	25	5 00
John Ellis	25	5 00
Hiram Stuteville	25	5 00
Joseph Brookshaw	41¾	8 26

PONTIAC GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
W H Springer	212¼	$42 50
R D Nortbey	212½	42 50
J P Ellis	170	34 00
S Scott	170	34 00
T A Wuterman	42¼	8 50
W C Phillips	21¼	4 25
D E Waldron	21¼	4 25

HYACK GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
H B Hixon	116	$23 20
Geo S Hupp	25	5 00
J C Duffey	77¼	15 56
E A Isaacs	92½	18 50
M J Ferrell	116	23 20
J J Relf	155	31 00
Wm Rose	77¼	15 56
W W Hartman	70	14 00

BUTLER GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
A C Laugblin	100	$20 00
J McDonough	10	2 00
J Beede	50	10 00

ENTERPRISE GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
A C Langblin	96	$19 20
Ira W Dearborn	50	10 00
John McDonough	10	2 00
Robert McMillan	50	10 00
S S Greenewood	125	25 00

ESSEX GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
Joseph Davidson	25	$5 00
W W Hartman	31	6 20
Geo S Hupp	25	5 00
S McBrown	54⅜	10 88
Robert Smith	25	5 00
Hiram Stuteville	10	2 00
John Ellis	40¾	8 12

D. B. FRANCIS, Secretary.
17-4t Office, 509 Clay street, San Francisco.

Nicolaus Gold and Silver Mining Company, Reese River District, N. T.

Scottish Chief Gold and Silver Mining Company, Reese River District, N. T.

Notice is hereby given, that in accordance with the laws of the State of California, and in pursuance of orders made by the respective Boards of Trustees of the above named companies, at meetings held on the nineteenth day of October, A. D. 1863, a sufficient number of shares of the capital stock of each of the above companies standing in the names of the following persons will be sold at Public Auction to the highest bidder, at the salesroom of Jerome Rice & Co., No. 327 Montgomery Street, in the City and County of San Francisco, on WEDNESDAY, the 25th day of May, A. D. 1864, at eleven o'clock A. M. of that day, to pay assessment No. 1 of each of them of ten cents per share, all levied on the 19th day of October, A. D. 1863, due and delinquent, together with all costs accruing from advertising sale, etc, if not previously paid:

NICOLAUS GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
W G Phillips	10	$1 00
E Hamol	37½	3 75
B Toland	36½	3 75
W W Colo	150	15 00
M G Leo	165	16 50

SCOTTISH CHIEF CONSOLIDATED TUNNEL AND MINING COMPANY.

Names.	Shares.	Amount.
J M Crump	25	$2 50
J W Davidson	25	2 50
S McBrown	167 3-11	16 75
E A Isaacs	163 7-11	16 40
W W Hartman	71 7-11	7 20
Daniel Liggett	27 3-11	2 75

D. B. FRANCIS, Secretary.
17-4t Office, 509 Clay street, San Francisco.

We have received the first number of the eighth volume of this interesting paper. It is now under the control of friend Dewey, and has been enlarged to sixteen pages. We commend it to miners, stock dealers, and others taking an interest in the development of the mineral lands of this State. It can be had for $5 a year, and if preserved will make two volumes of interesting matter, containing 416 pages each.—*Red Bluff Independent*

Samantha Consolidated Gold & Silver Mining Company, Reese River District, N. T.

Lewis Consolidated Gold & Silver Mining Company, Reese River District, N. T.

Memphis Gold & Silver Mining Company, Reese River District, N. T.

John J. Crittenden Gold & Silver Mining Company, Reese River District, N. T.

Grafton Gold & Silver Mining Company, Reese River District, N. T.

Tehama Gold & Silver Mining Company, Reese River District, N. T.

Notice is hereby given, that, in accordance with the laws of the State of California, and in pursuance of orders made by the respective Boards of Trustees of the above named Companies, at meetings held on the 19th day or October, A. D. 1863, a sufficient number of shares of the capital stock of each of the above Companies, standing in the names of the following persons, will be sold at Public Auction, to the highest bidder, at the salesroom of Jerome Rice & Company, Number 327 Montgomery street, in the city and county of San Francisco, on WEDNESDAY, the 25th day of May, A. D. 1864, at 11 o'clock A. M. of that day, to pay Assessment No. 1 of each of them, of twenty-five cents per sh are all levied on the 19th day of October, A. D. 1863, due and delinquent, together with all costs accruing from advertising, sale, le., if no, previously paid.

SAMANTHA CONSOLIDATED GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount5
Geo S Croft	25	$6 20
Geo S Hupp	20	5 05
J W Wilson	25	6 20
John Ridgway	50	12 50
Alpheus Bull	400	100 05
Wm R Young	25	6 20
Geo W Leet	450	112 50
M Liggett	300	75 00
J M McClond	150	37 50
Wm Coverdill	114	28 50
J S Currie	360	90 00
E A Isaacs	350	87 50
W L Buebtal	50	12 50
Wm Ellis	10	2 50
John Garber	10	2 50
W W Hartman	40	10 60
W W Hartman	165	41 25
J McCabe	10	2 50

LEWIS CONSOLIDATED.

Names.	Shares.	Amount.
John Hill	50	$12 50
S McBrown	85	8 75
W W Hartman	175	43 75
John A Weaver	400	100 00
W W Hartman	96	24 00
R Smith	33	8 25
R Hutchins	25	6 25

MEMPHIS GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
B B Cathrae	50	$12 56
Joseph W Davidson	25	6 25
Wm Coverdill	20	5 00
Charles Sharp	20 10-12	5 20
Henry Easter	20 10-12	5 20
S McBrown	129 2-12	32 30
Geo W Leet	23¼	5 83
J M Crump	166⅔	41 67
Frank Snow	166⅔	41 67
J A Weaver	166⅔	41 67
J McBrown	129 2-12	32 30

JOHN J. CRITTENDEN GOLD AND SILVER MINING CO.

Names.	Shares.	Amount.
Frank Snow	85	$21 25
W W Hartman	2	50
John Huchfus	10	2 60
C Nixon	25	6 25

GRAFTON GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
S Redfield	5	$1 25
J P Leo	125	31 25
S W Lee	150	37 50
W W Cole	00	22 50
John Nickerson	10	2 50

TEHAMA GOLD AND SILVER MINING COMPANY.

Names.	Shares.	Amount.
E A Titus	150	$37 50
M G Leo	140	35 00
G D Frazee	150	37 50

D. B. FRANCIS, Secretary.
17-4t Office, 509 Clay street, San Francisco.

Sonoma County Gold, Silver and Copper Mining Company, Cloverdale District, Sonoma county, California.

NOTICE.—There are delinquent, upon the following described stock, on account of Assessment levied on the 15th day of January, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amt.
W. S. Pearson	75, 76, 77, 78, 79, 80, 81, 82	100	$10 00
G. P. Swift	11, 61, 62, 64, 89	208	20 80
E. Swift (4th & 5th asst)		221	44 20
H. A. Thomas (4th and 5th asst)	55	8	1 60
H. T. Grnves (4th and 5th asst)	9	10	2 00

And in accordance with law, and an order of the Board of Trustees, made on the 14th day of April, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Jerome Rice & Co., on the 16th day of May, 1864, at the hour of 11 o'clock A. M. of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

A. B. CRAVES, Secretary.
17-4t Office, 412 Clay street, San Francisco, Cal.

Whitton Gold and Silver Mining Company, Silver Mountain, Alpine county, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 20th day of April, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable immediately to the Secretary, J. Warren Clark, 430 Montgomery street, San Francisco, (Room No. 5, 3d floor) or to S. A. Bartlett, Treasurer, Silver Mountain.

Any stock upon which said Assessment shall remain unpaid on the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 9th day of June, 1864, to pay the delinquent Assessment, together with the costs of Advertising and expenses of sale. By order of the Board of Trustees.

J. WARREN CLARK, Secretary.
Office, 430 Montgomery street, San Francisco. 17

Rubicon Gold & Silver Mining Company No. 1.—Location of mine, Keys District, Owens River, Mono county, California.

Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Rubicon Gold and Silver Mining Company No. 1, there will be sold, at Public Auction, to the highest bidder, for cash, in United States gold coin, on the 24th day of May, 1864, at 11 o'clock A. M. of that day, at the office of the Company, No. 7 and 8, third floor, No. 302 Montgomery street, San Francisco, so many shares of the capital stock of the Company standing in the names of the following persons, or shareholders, as will be necessary for the payment of Assessment No. 4, of ten (10) cents per share, duly levied thereon February 27th, 1861, by the Board of Trustees, together with the expenses of advertisement and sale, unless said assessment and accruing charges are previously paid.

Names.	No. Asst.	Certif.	Shares.	Due.
Adam Bland	4	no cer	180	balance, $11 25
Henry Bush	4	no cer	180	18 00
Sarah Cook	4	42	25	balance, 1 56
Sarah Cook	4	no cer	155	balance, 9 68
W. P. Carter	4	no cer	90	9 00
W. G. Davis	4	535	55	5 50
W. G. Davis	4	646	25	2 50
W. G. Davis	4	647	25	2 50
W. G. Davis	4	648	25	2 56
W. G. Davis	4	649	25	2 50
W. G. Davis	4	650	25	2 56
W. G. Davis	4	653	25	2 50
W. G. Davis	4	738	14	1 40
W. G. Davis	4	no cer	150	15 00
Philo Doud	4	638	10	balance, 62
Philo Doud	4	639	10	balance, 62
Philo Doud	4	no cer	160	balauce, 10 00
Wesley Diggings	4	no cer	1800	180 00
A. M. Genung	4	no cer	180	balance, 11 25
Rienzi Hughes	4	98	16	bnlance, 62
Rienzi Hughes	4	99	10	balance, 62
Rienzi Hughes	4	101	10	balance, 62
Rienzi Hughes	4	104	5	balance, 31
Rienzi Hughes	4	106	5	balance, 31
John Jeffress	4	244	15	balance, 94
John Jeffress	4	274	7	balauce, 44
John Jeffress	4	275	7	balance, 44
John Jeffress	4	276	14	balance, 88
John Jeffress	4	no cer	116	balance, 7 25
John Kneedler	4	278	14	balance, 88
John Kneedler	4	279	56	balauce, 3 13
John Kneedler	4	382	6	balance, 38
John Kneedler	4	no cer	85	balanca, 5 31
M. H. Kimball	4	no cer	90	6 00
A. J. Lovejoy	4	75	25	1 56
A. J. Lovejoy	4	296	132	85
Levi C. Lane	4	21	100	balance, 6 25
Levi C. Lane	4	22	25	balance, 1 56
D. H. Mitchell	4	1	125	balance, 11 56
D. H. Mitchell	4	365	30	balauce, 37
D. H. Mitchell	4	487	10	balauce, 93
D. H Mitchell	4	491	14	balance, 1 36
D. H. Mitchell	4	492	16	balance, 93
E. H. Mitchell	4	597	25	balance, 2 31
D. H. Mitchell	4	598	25	balance, 2 31
D. H. Mitchell	4	599	25	balance, 2 31
D. H. Mitchell	4	600	25	balance, 2 31
D. H. Mitchell	4	601	25	balance, 2 31
D. H. Mitchell	4	602	25	balance, 2 31
D. H. Mitchell	4	603	25	balauce, 2 31
D. H. Mitchell	4	604	25	balance, 2 31
D. H. Mitchell	4	605	14	balance, 1 30
D. H. Mitchell	4	606	14	balance, 1 30
D. H. Mitchell	4	607	14	balance, 1 30
D. H. Mitchell	4	608	14	balance, 1 36
D. H. Mitchell	4	609	14	balance, 1 50
D. H. Mitchell	4	611	11	bnlance, 1 02
D. H. Mitchell	4	656	30	bnlance, 2 78
D. H. Mitchell	4	657	30	balauce, 2 78
D. H. Mitchell	4	658	30	balance, 2 78
W. J. Martin	4	no cer	180	18 00
J. W. Myrick	4	no cer	180	18 00
M. M. Miller	4	627	180	18 00
Jas. O'Connell	4	289	9	balance, 56
Jas. O'Connell	4	290	50	balance, 3 13
Jas. O'Connell	4	291	50	balance, 3 15
Jas. O'Connell	4	292	25	balance, 1 56
Jas. O'Connell	4	293	25	balauce, 1 56
Jas. O'Connell	4	294	21	balance, 1 31
Thos. H. Porter	4	188	12	balance, 75
Thos. H. Porter	4	no cer	126	balance, 7 88
John Reynolds	4	no cer	540	54 00
I. Richards	4	460	90	balance, 4 72
Wm. Smith	4	228	30	balance, 1 88
Wm. Smith	4	229	25	balauce, 1 56
Wm Smith	4	230	25	balance, 1 56
Wm. Smith	4	231	25	balance, 1 56
Wm. Smith	4	2 2	25	balance, 1 56
Wm. Smith	4	233	25	balance, 1 56
Wm Smith	4	2 4	25	balance, 1 56
O. W. Spencer	4	662	50	5 00
O. W. Spencer	4	674	21	2 10
O. W. Spencer	4	no cer	1654	165 40
F. Shoemaker	4	no cer	90	9 00
Jos. Ware	4	715	14	balauce, 88
Jos. Ware	4	714	14	balance, 88
Jos. Ware	4	no cer	190	balauce, 11 88

By order of the Board of Trustees.
J. P. VAN HAGEN, Secretary,
Office, No. 302 Montgomery street, No. 7 and 8, 3d floor.
San Francisco, April 22, 1864. 17-4t

Dane Gold and Silver Mining Company, Esmeralda District, Nevada Territory.

Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the above named Company, at a meeting held at the office of the Company, on the 18th day of April, 1864, there will be sold at Public Auction, at the office of said Company, No. 224 Montgomery street, San Francisco, on the 25th day of May, A. D. 1864, at 12 o'clock M., to the highest bidder, for cash, in U. S. gold coin, so many shares of the capital stock of said Company, standing in the names of the following persons, as will be necessary for the payment of Assessment No. 4, of fifty cents per share, duly levied thereon by the Board of Trustees, on the 8th day of March, A. D. 1864, together with cost of advertising and expenses of sale, unless said assessment and charges are sooner paid.

Name.	No. certs.	No. shs.	Amt.
James H. Deering	23	75	$37 50
Jesse Richardson	3	10	5 00
M. L. Citron	25	10	5 00
P. J. Barber	41	10	5 00
Adam Ross	41	10	5 00
Mrs. H. C. Bull	47	5	2 50
W. H. Forbes	58	10	5 00
W. H. Harnden	71	10	5 00
Larkin Smith	74, 75	45	22 50

By order of the Board of Trustees.
17-3t WM. T. ATWOOD, Secretary.

Sonoma Ledge Silver Mining Company, Reese River District. Nevada Territory.

Notice is hereby given, that on MONDAY, May 23d, 1864, at noon, there will be sold, at Auction, at the salesroom of Cobb & Sinton, No. 406 Montgomery street, San Francisco, a sufficient number of shares in the capital stock of the Sonoma Ledge Mining Company, standing in the names of the following persons, to pay the Assessment (No. 2) of fifty cents per share, levied September 3, 1863; the Assessment (No, 3) of one dollar per share, levied January 5, 1864; and the Assessment (No. 4) of one dollar per share, levied March 12, 1864, together with the expenses of advertising and sale, unless the same shall have been previously paid—viz:

Names.	Certifs.	Shares.	Amt.
Barnes, R.	1	25	$25
Baldwin, J. G., Jr.	74	8	8
Basler, George A.	147	5	5
Bennet, W. P.	151	4	4
Bennet, W. P.	152	3	3
Bennet, W. P.	153	3	3
Bennett, A. A.	125	8	8
Bennett, A. A.	132	10	10
Bennett, A. A.	133	10	10
Burnham, R. M.	9	8	8
Burnham, R. M.	104	20	20
Clark, John W.	112	7	14
Dwarakowsky, Count	67	10	10
Dwarakowsky, Count	68	10	10
Dwarakowsky, Count	69	10	10
Dumas, Charles	75	25	25
Dumas, Charles	99	25	25
Dreyfuss, Henry	10	13	13
Friedman, S.	83	0	9
Garber, John	143	15	15
Helmken, I.	73	3	6
Howell, John	134	50	50
James, John D.	22	8	8
James, John D.	49	20	20
Kinsey, Mrs. Bello	130	8	8
Mann, David	117	3	3
Miller, J. W.	81	5	10
Neyman, H. J.	31	10	10
Neyman, H. J.	32	10	10
Neyman, H. J.	33	5	5
Neyman, H. J.	71	10	10
Neyman, H. J.	72	6	6
Priugle, George C.	24	10	25
Smith, David	38	10	10
Smith, R. T.	94	10	10
Smith, R. T.	95	10	10
Smith, R. T.	96	10	10
Smith, R. T.	102	5	5
Smith, N. T.	154	5	5
Smith, N. T.	155	5	5
Smith, N. T.	156	5	5
Smith, N. T.	157	10	10
Toler, William P.	148	5	5
Wolf, Louis	43	30	36
Wolf, Louis	91	10	10
Wolf, Louis	122	11	11

By order of the Board of Trustees.
DAVID WILDER, Secretary.
17-5t No. 240 Montgomery street, San Francisco.

Keokuk Gold, Silver and Copper Mining Company, Office No. 322 Front Street, San Francisco, April 16, 1864.

Notice is hereby given, that in accordance with the laws of the State of California, and the by-laws of said company, and an order duly made by the Board of Trustees of the Keokuk Gold, Silver and Copper Mining Company, there will be sold at Public Auction, by Jerome Rice & Co., 327 Montgomery Street, San Francisco, on WEDNESDAY, May 25th, 1864, at 11 o'clock A. M., to the highest bidder for cash in United States gold coin, so many shares of the stock of said company, standing in the names of the following persons, or shareholders, as will be necessary for the payment of assessments duly levied thereon and still remaining due and unpaid, together with expenses of advertisement and all other expenses of sale, to wit:

Names.	No. Certif.	No. Shares.	Amt.
J. N. Peterson	383	20	$2 00
Paul Bunker	385	20	2 00
B. S. Hines	109	5	50
Wuthrich, John	111	10	1 00
W. A. White	138	10	1 00
S. D. Cary	391	100	10 00
H. Classen	178, 179	50	5 00
A. E. DuBois	182	5	50
A. Himmelman	186	30	3 00
H. H. Schafor	308	70	7 00
J. Leavett	217, 218	100	10 00
M. Butler (No. 2)	378	10	1 00
A. Dolet	457	20	2 00
Malcolm Fisher	456	13	1 30
Mrs. A. B. Harrison	304	100	10 00
Ruth A. Taylor	311	10	1 00
Louisa Wise	193	10	1 00
E. C. Wetmore	196, 197	150	15 00
A. W. Stratton	59, 50	75	7 50
A. J. Bailey	69, 71, 72	150	15 00
A. M. Morgan	421	200	20 00
L. M. Morgan	420	200	20 00
F. L. Sueh	306	50	5 00
J. H. Littlefield	407, 408, 409	100	10 00
J. Alexander	458	70	7 00
H. Rothschild	358	5	50
D. J. Alexander	part 168	19	1 90
R. Braekett	359, 360, 363	50	5 00
G. S. Harmon	364, 365	100	10 00
Geo. F. Sharp	425	200	200
E. J. Baldwin	423	225	20 00
George Doan	part of 263 to 267	170	17 00
C. H. Rice, part of 98, 99, 100, 102, 104 & 5		97	9 70
G. W. Clark	381	50	5 00
C. Bruns	453	25	2 50
Miss C. Alison	257	50	5 00
E. D. Hayes	295, 296	10	1 00

By order of the Board of Trustees.
A. B. WINEGAR, Secretary.
17-4t No. 322 Front street, San Francisco.

Balazette Gold and Silver Mining Company, Lander County, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of March, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on the 9th day of April, 1864, in United States gold coin, to the Secretary at his office, 528 Clay street, San Francisco, or to the Superintendent, C. W. Leet, at Austin, Lander county, N. T. By order of the Board of Trustees.
C. B. LARRABEE, Secretary.
Office, 528 Clay street San Francisco. 17-4t

The Mining and Scientific Press comes to us enlarged to double its old dimensions, and otherwise improved. The Press is the only journal on this coast devoted exclusively to mining and scientific matters, and should be read by miners everywhere. It is published weekly, at $5 per year.—*Oroville Union.*

Billett Gold and Silver Mining Company—Office, 509 Clay street, San Francisco, California, April 16th, 1864.—Whereas the Board of Trustees of the Billett Gold and Silver Mining Company, at a meeting duly called and held on the 5th day of March, A. D. 1864, directed, by vote, that an assessment of twelve and one-half (12½) cents per share be, and the same was thereby levied and assessed, on each and every share of the capital stock of the said Billett Gold and Silver Mining Company, payable immediately, in gold and silver coin of the United States, and that the Secretary of the said Billett Gold and Silver Mining Company sell the delinquent stock, first advertising the same for thirty (30) days, according to law, after causing notice of said assessment to be published according to law and the by-laws of the said Company; and whereas notice of said assessment has been published according to law and the order aforesaid, and the following named shareholders have made default in the payment of said assessment in the number of shares held by them, and set against their names respectively, as follows—to wit:

	Shares.	Amount.
A. Bryant	149	$18 63
Levi Lee	30	3 75
James Lefferts	5	62
M R Miller	20	2 50
A T Nesbitt	10	1 25
James Billett	217	27 13
C A Moore	278	34 75
Josiah Butterfield	262	32 75
O H Hoag	20	2 50
W H White	42	5 25
J J Parker	5	63
W B Emerson	85	10 62
G Sherman	260	32 50
Levi Edwards	25	3 13
T G Cockrill	4	50
Mary A Fitch	5	63
James W Beavers	50	6 25
F J Beamont	354	44 25
W H White	50	6 25
E J C Crow	10	1 25
Lizzie Nichols	12	1 50
Thomas J Isbell	50	6 25
Isaac N Crosby	50	6 25
C M Beebe	25	3 13
James Hamilton	82	10 25
John H Fowler	12	1 50
Whitehead Fowler	10	1 25
B F Nickerson	188	23 50

Now therefore, under and in pursuance of law and the order aforesaid, notice is hereby given, that so many of the shares standing in the names of the persons above mentioned respectively, as will be necessary for the payment of the assessment aforesaid, together with the expenses of advertising and other expenses of the sale, will be sold, according to law and the by-laws of the said Billet Cold and Silver Mining Company, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, in the city and county of San Francisco, California, on WEDNESDAY, the 25th day of May, A. D. 1864, at 11 o'clock A. M. of that day, unless said assessments, with accruing charges, are previously paid. By order of the Board of Trustees. (16-4t) D. B. FRANCIS, Secretary.

Saxon Copper Mining Company, Calaveras Co., Cal.—Notice is hereby given that in accordance with the laws of the State of California and an order duly made by the Board of Trustees of this Company, there will be sold at Public Auction at the office of the Company, at Copperopolis, on the 10th day of May, A. D. 1864, at three o'clock, p. m. of that day, to the highest bidder, for cash, in United States gold coin, so many shares of the capital stock of said Company standing in the names of the following shareholders as will be necessary for the payment of the assessments duly levied thereon by the Board of Trustees, together with the expense of advertisement and sale, unless said assessment and charges are paid before said sale.

Names.	No. Certificates.	Shares.	Amt.
Thomas H. Binnix,	3	50	23 50
Thomas H. Binnix,	63	50	23 50
Thomas H. Binnix,	64	100	47 00
Thomas H. Binnix,	75	50	23 50
Thomas H. Binnix,	76	10	4 70
Thomas H. Binnix,	77	10	4 70
Thomas H. Binnix,	78	10	4 70
Thomas H. Binnix,	79	10	4 70
J. H. Titcomb,	24	100	47 00
J. H. Titcomb,	27	25	11 75
J. H. Titcomb,	28	25	11 75
A. D. Titcomb,	84	25	11 75
M. R. Garrard,	87	50	44 50
M. R. Garrard,	88	50	44 50
M. R. Carrard,	89	50	44 50

By order of the Board of Trustees.
16-4t L. HONIGSBERCER, Sec'y.

The above Sale is postponed until SATURDAY, the 21st day of May, 1864, at 3 o'clock, P. M. By order of the board of Trustees.
L. HONIGSBERGER, Sec'y.

Enterprise Tunnel & Mining Company, Reese River Mining District, Lauder county, N. T.—Notice.—There is delinquent upon the following described stock in the above named Company, on account of assessment levied on the 23d day of October, 1863, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	Certificates.	Shares.	Amt.
Chas. Smith,	Nos. 81, 82, 83, 84	100	$25 00
A. Helndenheimer,	Nos. 86, 87	50	12 50
Otto Kapuz,	Nos. 55, 56, 57, 58, 59	50	12 50
S. Rezzel,	Nos. 92, 93, 94, 95	100	25 00
W. Blum,	Nos. 96, 97	50	12 50
Daniel Fonly,	Nos. 98, 99	50	12 50
C. Schmidthury,	No. 39	10	2 50
A. Lamb,	No. 38	15	3 75
C. W. Skinnor,	Nos. 108, 109	100	25 00

And in accordance with law, and an order made by the Board of Trustees on the 12th instant, so many shares of each parcel of said stock as may be necessary will be sold, at the office of the Company, in the city of San Francisco, at 12 o'clock M., on SATURDAY, the 14th day of May, 1864, to pay said delinquent assessments thereon, together with costs of advertising and expenses of sale.

J. F. STIRLING, Secretary.
No. 502 Montgomery street, Room No. 1, 3d floor.
San Francisco, April 16, 1864. 16-td

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IT IS ACKNOWLEDGED BY ALL WHO HAVE EXAMINED THE principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.

The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metal arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the triturating, this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.

Where these Pans have been introduced and operated by the side of others on sands from the same vat, the Wheeler Pans have uniformly gained a large percentage of metals, over its competitors, as well as a still larger percentage in the amount of work performed.

*** These Pans may be seen in daily operation at the Miners, Foundry, on First street, San Francisco, where all interested are invited to call and examine for themselves.

no16-tf ZENAS WHEELER.

To Quartz Miners.

ALL PERSONS INTERESTED IN MINING MACHINERY ARE invited to call at Donahue's Foundry and examine my improved Amalgamator. It is unquestionably superior to anything now known for amalgamating Silver and Gold. It works 1000 pounds at a time, and will amalgamate over three tons a day. By the motion of the revolving muller, the pulp is drawn through its centre and passes under it, between the grinding surfaces, to the circumference; from whence it passes again over the muller to the centre, through the holes and between the grinding surfaces to the circumference as before. Thus a constant circulation of the pulp is kept up, bringing the particles of ore again and again under the muller, and reducing the whole mass to an impalpable powder.

No quicksilver lies between the surfaces to be ground, but at the circumference and centre of the pan where the metal must pass through it as the pulp circulates.

A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S. Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.
sep21

Business Cards.

T. C. SANBORN & CO.
Stock Brokers,
No. 630, Montgomery Street,.....San Francisco.

OPHIR SILVER MINING STOCK,
GOULD & CURRY MINING STOCK,
CHOLLAR MINING STOCK,
CALIFORNIA STEAM NAVIGATION COMPANY'S STOCK,
☞ BOUGHT AND SOLD. ☜
jltf.

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W. O. ANDREWS,
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—AND—
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22 Lyceum building, cor. Washington and Montgomery sts.,
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Particular attention paid to Washoe, Esmeralda, and all other classes of Mining Stocks. Collections promptly attended to. Money to Loan on Stocks.
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RENNIE & MORRISON,
STOCK BROKERS,
N. E. Cor. of Montgomery and Washington Sts., San Francisco.
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WM. S. LYON & CO.,
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QUARTERMASTER'S WARRANTS BOUGHT. THE HIGHEST Price paid for Legal Tender Notes. Open till 9 P. M. 1-3m

REMOVAL.
J. R. BEARD, STOCK BROKER,
MEMBER SAN FRANCISCO STOCK AND EXCHANGE BOARD,
HAS REMOVED HIS OFFICE TO
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PREMIUM ORNAMENTAL AND FANCY PAPER CUTTER AND DECORATOR.
HALLS, DINING ROOMS, SALOONS, PRIVATE PARLORS, Steamboats, &c., Decorated in the latest and neatest style, Mirrors, Picture Frames, Chandeliers, &c., decorated with Tarlton or Paper. Particular attention paid to the decoration of Private Parlors. Address Box, 1,770, San Francisco Post Office. Can be found at W. S. Lyons & Co.'s, 304 Montgomery St., cor. of Pine. 15

W. F. DENCKLA. A. L. CHAMBERLIN.
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Stock and Exchange Brokers,
S. W. corner of Clay and Montgomery streets,
SAN FRANCISCO.
☞ Deeds, etc., for record in Humboldt County, Nevada Territory, received and forwarded. 1-tf

MUTUAL
Life Insurance Company,
—OF NEW YORK—
Capital, : : : : : : : : : $9,750,000.
H. S. HOMANS, Agent for California.

H. S. HOMANS,
NOTARY PUBLIC,
And Commissioner of Deeds for Nevada Territory,
MINING SECRETARY, CONVEYANCER, ETC.,
Northeast corner of Montgomery and Merchant Streets.

THOS. DAVENPORT. W. B. SMITH
DAVENPORT & SMITH,
Mining and General Accountants,
SCRIVENERS, CONVEYANCERS, ETC.
Office, No. 14 Government Block, N. W. corner of Sansome and Washington streets, San Francisco.
REFER BY PERMISSION TO
Donohoe, Ralston & Co, Bankers. | J. C. Sanborn & Co., Brokers.
Sather & Co., Bankers. | Ross, Dempster & Co., Merchants.
John Parrott, Esq., Banker. | Dibblee, Hyde & Co., Merchants.
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HENRY BAKER AND JOS. N. SOUTHER,
MINING SECRETARIES.
Rooms 12 & 14 Athenæum Building, corner Montgomery & California Streets, San Francisco.
B. & S. will attend, in a prompt and satisfactory manner, to the Incorporation of Mining and other Companies, the purchase and sale of Stocks and Real Estate, and the adjustment of accounts.
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W. R. MAURICE,
Stock Broker, Real Estate Agent
And Mining Secretary.
Office, No. 703 Montgomery Street, San Francisco. Reference—Messrs. Parrott & Co., Bankers. 8v8-tf

THOMAS HILL,
Member of the S. F. Stock and Exchange (1st) Board.
A. H. MURDOCK,
Member of Stock Exchange,
No. 623 Montgomery Street. Opposite Montgomery Block,
SAN FRANCISCO.

Palmer's Patent
ARTIFICIAL LEG,
Manufactured in Philadelphia, Pa.
JARVIS JEWETT, AGENT.
629 Washington Street, San Francisco, Cal. 10v8-1m

A. C. MORSE,
Mining and Real Estate Agent,
Office, S. W. corner Pine and Silver Sts., Aurora.
HAVING MADE ARRANGEMENTS WITH MINER S. MARTIN, Esq., one of the principal Stock Brokers of San Francisco, I am prepared to BUY and SELL every description of Mining Stocks in Esmeralda District. tf

ARMES & DALLAM,
IMPORTERS AND JOBBERS OF
WOOD AND WILLOW WARE,
Brushes, Twine, Cordage, Etc.,
And Manufacturers of California Pails, Tubs, Brooms, Etc.,
217 and 219 Sacramento St., between Front and Davis,
2-tf SAN FRANCISCO.

NATHANIEL GRAY,
General Furnishing Undertaker,
641 Sacramento St., corner of Webb, San Francisco. 1

PHILLIPS & CO.,
(Successors to W. H. Baxter & Co.,)
—MANUFACTURERS AND IMPORTERS OF—
HARNESS AND SADDLES,
BRIDLES, WHIPS, COLLARS, SADDLERY WARE, Etc.,
407 Battery St., between Clay and Merchant, San Francisco.
N. B.—All kinds of Work made to order and Warranted. Jobbing done with neatness and dispatch, and on the most reasonable terms. 2-tf

EDWARD BOSQUI & CO.,
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Book-Binders, Paper-Rulers,
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Blanks of all kinds printed and ruled to any desired pattern. [2-tf

GEO. B. HITCHCOCK & CO.,
Counting-House Stationers,
HAVE ALWAYS IN STORE A WELL-SELECTED STOCK OF
American and Foreign Stationery.
Blank Books of all kinds, manufactured to any desired pattern, and at the shortest notice. Mining Companies supplied in the best manner, and at reasonable rates.
GEO. B. HITCHCOCK & CO.,
2-1m 413 and 415 Sansome St., cor. Commercial, S. F.

C. BEACH,
—IMPORTER AND DEALER IN—
Juvenile and School Books, Stationery,
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No. 34 Montgomery street (opposite the Lick House),
4v8-3m SAN FRANCISCO.

BUSWELL & CO.,
Book-Binders, Paper-Rulers,
And Blank-Book Manufacturers.
No. 509 Clay street and 508 Commercial street, between Montgomery
4v8-tf and Sansome, San Francisco.

WM. P. TAAFFEE,
IMPORTER AND JOBBER OF
Staple and Fancy Dry Goods, Carpets, Duck, etc.,
-tf Corner of Front and Sacramento Streets, San Francisco.

D. NORCROSS,
MILITARY GOODS OF ALL DESCRIPTIONS. NAVY TRIMMINGS AND EMBROIDERIES. REGALIA FOR ALL ORDERS.
aug17-tf Masonic Temple, No. 6, Post Street.

Owen's River Canal Company.
FOR SALE, FOR ACCOUNT OF THE COMPANY, 7,000 SHARES of the above stock, at $1 per share. It is confidently presented to the public as the best investment, for the price, now offered this market.
Office of the Company No. 323 Montgomery street. 1tf

REMOVAL.
THE OFFICE OF DEETKEN & CO'S METALLURGICAL WORKS HAVE BEEN REMOVED FROM 605 to 315 MONTGOMERY ST., SAN FRANCISCO.
16 A. MARCUS, Secretary.

RICHARD WEGENER,
Accountant, Mining Secretary,
AND GENERAL AGENT.
No. 204 Montgomery St., Southeast cor. Montgomery & Pine Sts.,
11-1m SAN FRANCISCO.

E. C. DAKE,
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j2.tf San Francisco.

Agency for the Purchase and Sale
—OF—
MEXICAN MINING STOCKS,
At No. 411 Clay Street, San Francisco.
OFFICE OF THE PENA AND LA MARRONENA SILVER MINing Companies, San Antonio District, Lower California.
All persons are invited to call and examine Ores from the above mines.
jlt WM. FAULKNER.

GEORGE H. BAKER,
Lithographer & Engraver,
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MINING STOCK CERTIFICATES LITHOGRAPHED IN THE MOST ARTISTIC STYLE. CALL AND EXAMINE SPECIMENS.
10v8-tf

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Drawings of Models made for parties applying for patents at Washington or London. mar23-tf.

JOHN DANIEL,
(SUCCESSOR TO O. GORI)
MARBLE WORKS,
No. 408 Pine street, bet. Montgomery and Kearny, San Francisco.
Mantels, Monuments, Tombs, Plumbers' Slabs, Etc.,
On hand and Manufactured to order.
☞ Goods shipped to all parts of the State. Orders respectfully solicited. 5v8-3m

Removal.
OFFICE OF THE PACIFIC METALLURGICAL OFFICE IS REmoved to 509 Sacramento street. Having enlarged our works at North Beach, we are now enabled to reduce from 10 to 15 tons of Silver or Gold rock per day.
Gold and Silver ore, and Sulphuret Assayers', or Silversmiths' sweepings reduced or purchased.
Copper Ores—Highest market rates advanced in cash, for Shipments. S. C. BRADSHAW, Agent,
509 Sacramento street, near Sansome.

Farrand's New
AMALGAMATOR & SEPARATOR!
THIS UNRIVALLED MACHINE IS NOW IN OPERATION AT THE
Eureka Metallurgical Works,
Commercial Street, between Front and Davis,
WHERE ALL KINDS OF ORES ARE REDUCED AND SAMPLED.
Particular attention given to Sampling Copper Ores.
This Amalgamator is capable of doing double the amount of work of the ordinary pans, at a saving of one half of the power, and at a much less cost in the original purchase.
Another very important advantage connected with this machine is the fact that it may be cleaned in fifteen minutes, without removing the plates or any other portion of the machine.
Manufactured at the Miners' Foundry, San Francisco. All communications should be addressed to R. L. OGDEN, Agent.
Cor. Montgomery and California streets, San Francisco.

Advantages of Farrand's Amalgamator.
In offering this Amalgamator to the public, the inventor does not claim any new or scientific method of extracting the precious metals from the ores; he merely claims a new and simple combination of mechanical principles, whereby a great saving of power (full one-half in amount) is affected. The capacity of the machine varies with its size, the smallest, or prospecting size, will reduce 300lbs. in three hours, and can be easily worked by the power of one man. The largest size will work 1,500lbs. every three hours, or six tons in 24 hours, with an application of a trifle more than one-horse power. This saving of power, as all mill-men are aware, is a very important consideration, particularly in localities where fuel is scarce. The power so saved in running the Amalgamators may be advantageously employed to an increase of stamps, and thus proportionally increasing the work of the mill. This machine consists of a semi-cylindrical, trough-shaped vessel, the interior of which is furnished with moveable concave dies, to be replaced when worn out, as in ordinary pans. The mullers are convex, and attached to a substantial rock shaft, by which they are moved back and forward by crank or eccentric motion. The mullers are held to their places by springs of moderate strength, the pressure of which may be easily regulated. The oscillating motion of the mullers serves to keep the pulp in a constant state of agitation, thoroughly mixing it and passing it under the mullers without resort to any of the various expedients employed in Pans where a circular motion is maintained. In working this Amalgamator no quicksilver is placed in the pulp until the trituration is completed. That done, the mullers are raised, so as to completely break contact with the dies, the quicksilver sprinkled into the mass and the machine set in motion again, the mullers simply acting as stirrers, which they do most effectual. The peculiar construction of this machine admits of its being worked with a much smaller charge of quicksilver, to any given amount of pulp than Pans. The spiral springs greatly assist in the work of reduction, by allowing the free admission of the pulp between the mullers and dies, so that the pulp is made to actually work upon itself—as the dust of the diamond is made to reduce the gem itself. The advantage derived of thus avoiding all trituration in the presence of quicksilver, must be apparent to every one at all acquainted with gold or silver amalgamating. Trials made with this machine in the presence of experts, during the last four months, have been pronounced highly satisfactory. It is peculiarly well adapted to employment by small mining operators in distant localities, as it can readily be taken to pieces and packed upon mules. It is intended to construct a large size machine, without dies or mullers, but simply with arms, to act as stirrers; said machine to be used in connection with several of the Amalgamators as a "Separator," as it is found that the peculiar motion given to these arms, in connection with the concave shape of the body of the machine, renders it most effectual for such a purpose. WM. D. FARRAND.
17-1m San Francisco, March 28th, 1861.

MINING NOTICES—MAY 14th.

Rubicon Gold and Silver Mining Company, No. 3. Location of mine, Keys District, Owens' River, Mono county, California.

Notice is hereby given, that in accordance with the laws of California, and an order duly made by the Board of Trustees of the Rubicon Gold and Silver Mining Company, No. 3, there will be sold, at public auction, to the highest bidder, for cash, in United States gold coin, on the 14th day of June, 1864, at 11 o' clock A. M., of that day, at the office of the Company, No. 7 & 8 third floor, No. 302 Montgomery street, San Francisco, so many shares of the Capital Stock of the Company, standing in the names of the following persons, or shareholders, as will be necessary for the payment of assessment No. 4, of ten (10) cents per share, duly levied thereon February 27th, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said assessment and accruing charges are previously paid.

Names.	No. Asst.	Certif.	Shares.		Due.
Adam Bland	4	no cer	150	balance,	$9 38
Henry Bush	4	no cer	150		15 00
Sarah Cook	4	39	25	balance,	1 56
Sarah Cook	4	no cer	125	balance,	7 81
Wm. P. Carter	4	no cer	75		7 50
W. G. Davis	4	426	50		6 00
W. G. Davis	4	509	55		5 50
W. G. Davis	4	537	25		2 50
W. G. Davis	4	628	25		2 50
W. G. Davis	4	630	25		2 50
W. G. Davis	4	631	25		2 50
W. G. Davis	4	632	25		2 50
W. G. Davis	4	633	25		2 50
W. G. Davis	4	634	25		2 50
W. G. Davis	4	720	12		1 20
W. G. Davis	4	no cer	33		3 30
Philo Doud	4	no cer	132	balance,	12 21
Wesley Diggins	4	no cer	1400		140 00
Wesley Diggins	4	757	100		10 00
A. M. Genning	4	no cer	150	balance,	9 37
John Jeffress	4	229	15	balance,	93
John Jeffress	4	256	6	balance,	37
John Jeffress	4	257	6	balance,	37
John Jeffress	4	258	12	balance,	75
John Jeffress	4	no cer	93	balance,	6 81
Wm. L. Kirby	4	320	50	balance,	3 13
Wm. L. Kirby	4	327	25	balance,	1 56
Wm. L. Kirby	4	no cer	35	balance,	2 15
John Kneedler	4	250	12	balance,	75
John Kneedler	4	251	50	balance,	3 13
John Kneedler	4	353	5	balance,	31
John Kneedler	4	no cer	58	balance,	3 62
M. H. Kimball	4	no cer	42		4 20
A. J. Lovejoy	4	83	25		1 56
A. J. Lovejoy	4	276	12		75
Levi C. Lane	4	14	100	balance,	6 25
Levi C. Lane	4	15	25	balance,	1 56
Wheeler Martin	4	4	25	balance,	1 56
Wheeler Martin	4	35	30	balance,	1 87
Wheeler Martin	4	40	30	balance,	1 87
Wheeler Martin	4	41	30	balance,	1 87
Wheeler Martin	4	no cer	675	balance,	42 18
D. H. Mitchell	4	331	5	balance,	46
D. H. Mitchell	4	333	25	balance,	2 31
D. H. Mitchell	4	449	12	balance,	1 11
D. H. Mitchell	4	450	12	balance,	1 11
D. H. Mitchell	4	462	10	balance,	93
D. H. Mitchell	4	464	12	balance,	1 11
J. W. Myrick	4	no cer	150		15 00
M. M. Miller	4	611	150		15 00
Jas. O'Connell	4	271	50	balance,	3 12
Jas. O'Connell	4	272	50	balance,	3 12
Jas. O'Connell	4	273	25	balance,	1 56
Jas. O'Connell	4	274	25	balance,	1 56
Thos. H. Porter	4	183	10	balance,	63
Thos. H. Porter	4	no cer	105	balance,	6 56
I. Richards	4	434	75	balance,	3 75
John Reynolds	4	no cer	450		45 00
Wm. Smith	4	218	25	balance,	1 56
Wm. Smith	4	219	25	balance,	1 56
Wm. Smith	4	220	25	balance,	1 56
Wm. Smith	4	221	25	balance,	1 56
Wm. Smith	4	222	25	balance,	1 56
Wm. Smith	4	223	25	balance,	1 56
O. W. Spencer	4	549	75		7 50
O. W. Spencer	4	655	18		1 80
O. W. Spencer	4	no cer	1357		135 70
F. Shoemaker	4	no cer	73		7 30
Jos. Ware	4	607	6	balance,	37
Jos. Ware	4	694	12	balance,	75
Jos. Ware	4	695	12	balance,	95
Jos. Ware	4	749	25	balance,	1 56
Jos. Ware	4	no cer	129	balance,	8 06

By order of the Board of Trustees.

J. P. VAN HAGAN, Secretary.

Office, No. 302 Montgomery street, No. 7 and 8, 3d floor.

San Francisco, May 12th, 1864. 20-4t

Eureka Mining Company, Mineral Spring District, Calaveras County, State of California.

Notice.—There is delinquent, upon the following described Stock' on account of Assessment levied on the 12th day of April, 1864, the several amounts set opposite the Names of the respective shareholders, as follows:

Names.	No. Cert.	No. Share.	Amount.
N Atkinson	99	25	$5 00
H O Baker	10	50	10 00
H O Baker	11	25	5 00
H O Baker	12	25	5 00
H O Baker	45	13	2 60
D T Brown Jr	51	10	2 00
J L Champlin	72	10	2 00
W F Downs	117	5	1 00
W F Downs	118	5	1 00
John Dunn	126	25	5 00
D B Hood	137	100	20 00
D B Hood	138	50	10 00
D B Hood	139	50	10 00
D B Hood	140	25	5 00
D B Hood	141	25	5 00
D B Hood	142	25	5 00
D B Hood	143	25	5 00
D B Hood	144	10	2 00
D B Hood	145	10	2 00
D B Hood	146	10	2 00
D B Hood	147	10	2 00
D B Hood	148	10	2 00
M Kreis	32	25	5 00
S C Nathan	28	175	35 00
S C Nathan	115	150	30 00
Chas S Nathan	37	5	1 00
Antonio Rose	1.9	10	2 00
Antonio Rose	131	10	2 00
Antonio Rose	152	20	4 00
Jesse Thompson	100	10	2 00
Jesse Thompson	101	10	2 00
Jesse Thompson	102	10	2 00
Jesse Thompson	103	12	2 40
Jesse Thompson	127	20	4 00

And in accordance with law, and an order of the Board of Trustees, made on the 12th day of April, 1864, so many shares of each parcel of said Stock as may be necessary, will be sold at the office of the Company, on the 30th day of May, 1864, at the hour of 12 o'clock M, of said day, to pay said delinquent Assessment thereon, together with costs of Advertising and expenses of the Sale.

C. W. HAYDEN, Secretary.

20-5t Office, 625 Clay Street, San Francisco.

Rubicon Gold and Silver Mining Company, No. 4. Location of Mine, Keys District, Owens' River, Mono county, California.

Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Rubicon Gold and Silver Mining Company, No. 4, there will be sold at public auction, to the highest bidder, for cash, in United States gold coin, on the 14th day of June, 1864, at 11 o'clock, A. M., of that day, at the office of the Company, No. 7 & 8 third floor, No. 302 Montgomery street, San Francisco, so many shares of the Capital Stock of the Company, standing in the names of the following persons or shareholders, as will be necessary for the payment of Assessment No. 4, of ten (10) cents per share, duly levied thereon February 27th, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said Assessment and accruing charges are previously paid.

Names.	No. Asst.	Certif.	Shares.		Due.
Adam Bland	4	no cer	150	balance,	$9 38
Henry Bush	4	no cer	150		15 00
Sarah Cook	4	38	25	balance,	1 56
Sarah Cook	4	no cer	125	balance,	7 81
W. P. Carter	4	no cer	75		7 50
Philo Doud	4	no cer	132	balance,	12 21
Wesley Diggins	4	no cer	1400		140 00
Wesley Diggins	4	726	100		10 00
W. G. Davis	4	485	55		5 50
W. G. Davis	4	538	25		2 50
W. G. Davis	4	602	25		2 50
W. G. Davis	4	603	25		2 50
W. G. Davis	4	604	25		2 50
W. G. Davis	4	605	25		2 50
W. G. Davis	4	606	25		2 50
W. G. Davis	4	691	12		1 20
W. G. Davis	4	no cer	33		3 30
A. M. Genning	4	no cer	150	balance,	9 37
John Jeffress	4	206	15	balance,	93
John Jeffress	4	232	6	balance,	37
John Jeffress	4	233	5	balance,	37
John Jeffress	4	234	12	balance,	75
John Jeffress	4	no cer	93	balance,	5 81
W. L. Kirby	4	326	25	balance,	1 56
W. L. Kirby	4	no cer	85	balance,	5 31
John Kneedler	4	236	14	balance,	88
John Kneedler	4	237	50	balance,	3 13
John Kneedler	4	332	5	balance,	31
John Kneedler	4	no cer	56	balance,	3 50
Levi C. Lane	4	14	100	balance,	6 25
Levi C. Lane	4	15	25	balance,	1 56
A. J. Lovejoy	4	61	25	balance,	1 56
A. J. Lovejoy	4	252	12	balance,	75
Wheeler Martin	4	35	15	balance,	94
Wheeler Martin	4	39	20	balance,	1 25
Wheeler Martin	4	40	20	balance,	1 25
Wheeler Martin	4	no cer	675	balance,	42 18
D. H. Mitchell	4	419	12	balance,	1 11
D. H. Mitchell	4	420	12	balance,	1 11
D. H. Mitchell	4	432	10	balance,	92
D. H. Mitchell	4	436	12	balance,	1 11
D. H. Mitchell	4	489	25	balance,	2 31
M. M. Miller	4	831	150		15 00
J. W. Myrick	4	no cer	150		15 00
Jas. O'Connell	4	247	50	balance,	3 12
Jas. O'Connell	4	248	50	balance,	3 12
Jas. O'Connell	4	249	25	balance,	1 56
Jas. O'Connell	4	250	25	balance,	1 56
Thos. H. Porter	4	162	10	balance,	63
Thos. H. Porter	4	no cer	105	balance,	6 56
I. Richards	4	406	75	balance,	3 75
John Reynolds	4	no cer	450		45 00
Wm. Smith	4	193	25	balance,	1 56
Wm. Smith	4	194	25	balance,	1 56
Wm. Smith	4	195	25	balance,	1 56
Wm. Smith	4	196	25	balance,	1 56
Wm. Smith	4	197	25	balance,	1 56
Wm. Smith	4	198	25	balance,	1 56
O. W. Spencer	4	524	75		7 50
O. W. Spencer	4	615	50		5 00
O. W. Spencer	4	626	18		1 80
O. W. Spencer	4	no cer	1357		135 70
F. Shoemaker	4	no cer	73		7 30
Jos. Ware	4	577	6	balance,	31
Jos. Ware	4	662	12	balance,	75
Jos. Ware	4	663	12	balance,	75
Jos. Ware	4	719	25	balance,	1 56
Jos. Ware	4	no cer	129	balance,	8 06

By order of the Board of Trustees.

J. P. VAN HAGAN, Secretary.

Office, No. 302 Montgomery street, No. 7 & 8 3d, floor.

San Francisco, May 12th, 1864. 20-4t

Wm. Mitchel Gold and Silver Mining Company, Silver Mountain, Amador county, California.

NOTICE.—There is delinquent upon the following described stock, on account of Assessments levied on the 16th day of February and the 29th day of March, 1864, the several amounts set opposite the names of the respective shareholders, as follows, to wit:

Names.	No. Certif.	No. Shares	Amt.
John L. Bowen	34	5	$5 00
S. C. Blake	53	15	15 00
S. C. Blake	55	5	5 00
Philip Brady	61	5	5 00
N. Castlo	56	10	10 00
N. Castle	57	6	6 00
W. Hollis	78	10	10 00
Henry Kline	69	10	10 00
Mrs. Julia Kenney	50	5	2 50
P. McGee	66	5	5 00
W. J. Moss	68	5	5 00
Wm. Walsh	95	25	25 00
Mrs. M. Wise	33	20	20 00

And in accordance with law, and an order of the Board of Trustees, made on the 4th day of May, last, so many shares of each parcel of said stock as may be necessary, will be sold at the office of the Secretary, on Wednesday, the 15th day of June, 1864, at 12 o'clock, M., to pay said delinquent Assessments thereon, together with costs of advertising and expenses of the sale.

A. G. WOOD, Secretary.

20-4t 240 Montgomery street, No. 4, 2d floor.

Tornado Gold and Silver Mining Company, Colorado District, El Dorado Canon, Territory of Arizona. Office 620 Washington street, San Francisco.

Notice is hereby given, that, in accordance with the laws of the State of California, and in pursuance of an order of the Board of Trustees of the Tornado Gold and Silver Mining Company, duly made May 4th, A. D. 1864, there will be sold, at Auction, at the office of said Company, on June 13th, 1864, at 12 o'clock M. to the highest bidder, for cash, in U. S. coin, so many shares of the capital stock of this Company, standing in the names of the following parties, as may be necessary to pay Assessments No. 1 and 2, of fifty (50) cents each, and levied by the Board of Trustees, December 14th, 1863, and February 17th, 1864, and also balances and other dues, as specified herewith, together with all charges accruing from advertising and sale, unless all such dues are previously paid to the Secretary.

Names.	No. Certs.	No. Shares.	Amt.
H R Covey	6	25	$25 00
H R Covey	7	25	25 00
H R Covey	8	25	25 00
H R Covey	9	25	25 00
H R Covey	10	25	25 00
H R Covey	11	25	25 00
H R Covey	12	25	25 00
H R Covey	13	25	25 00
P J Olford	not issued	200	200 00
C Hamilton	Amt due on 288		144 00

20-4t RODNEY CLARK, Secretary.

Royal Eagle and Cliff Gold and Silver Mining Company, Gold Hill Mining District, Storey county, Nevada Territory. —Office No. 493 Washington street, San Francisco.

Notice is hereby given, that, in accordance with an order duly made by the Board of Trustees of the Royal Eagle and Cliff Gold and Silver Mining Company, there will be sold, at Public Auction, by Jerome Rice & Co., at their salesrooms, No. 327 Montgomery street, San Francisco, on WEDNESDAY, June 15, 1864, at 12 o'clock M. to the highest bidder, for cash, in U. S. gold coin, so many shares o the capital stock of the said Company, standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay all assessments now delinquent thereon, together with cost of advertising and all accruing charges, unless previously paid:

Stockholders.	No. Asst.	No. Certificate.	Shares.	Amt.
Cesar Roch	3 and 4	10, 12, 16, 17	30	$45 00
A. Levy	3 and 4	8	5	7 50
L. Levy	3 and 4	23	5	7 50
C. Kornfeld	3 and 4	96, 199	33	49 50
P. E. P. Davan	3 and 4	181, 182, 189, 190, 191	103	154 50
Piere Thiebaut	4	31, 33, 34, 113	30½	31 00
C. Mery	4	39, 176, 146	18	18 00
Dominique Gouthi	4	40, 112	12	12 00
Champel Resl	4	41, 94. 95, 138	30	30 00
F. X. Vilm	3 and 4	111, 112, 113	16	22 50
Marie Courier	3 and 4	44	10	15 00
J. Lamolle	4	52	15	15 00
B. Lamolle	4	53	12	12 00
E. Ward	2, 3 and 4	—	5	12 50
J. Mayer	4	55	15	15 00
A. Carre	4	67, 149	13	13 00
Rene Gourdon	3 and 4	64, 65	50	75 00
Alexis Leroux	3 and 4	68	6	7 50
John Delbo	3 and 4	76	25	37 50
A. Rebo	4	80	25	25 00
H. Harlecourt	3 and 4	84	8	12 00
Cordes Bertraud	3 and 4	85	17	25 50
Wm. Remy	3 and 4	101, 102	25	37 50
H. Bone	3 and 4	—	7	10 50
J. Larlslll	4	119	25	25 00
H. Van Every	3 and 4	139	20	30 00
J. Fillot	2, 3 and 4	—	5	12 50
J. H. Vlevler	3 and 4	—	22	33 00
A. Gatticker	3 and 4	—	25	37 50
A. Seeretan	3 and 4	—	5	7 50
L. Noel	3 and 4	—	100	150 00
J. Carroll	2, 3 and 4	194	10	25 00
C. Duval	3 and 4	193	25	37 50
J. Austine	1, 2, 3 and 4	—	25	135 00
Victor Ansous	3 and 4	185	10	15 00
Carolino Petetin	2, 3 and 4	110	10	25 00
Alfred Turrel	3 and 4	140	10	15 00
Marie V. Hourcade	3 and 4	142	5	7 50
Caroline Goux	3 and 4	143, 168	8	12 00
P. J. Minet	3 and 4	144, 167	12	18 00
Napoleon Denis	4	155	10	10 00
Cazeax & Collins	3 and 4	164	5	7 50
C. Aquillon	3 and 4	152	15	22 50
J. P. Cassady	4	162	10	10 00
L. M. Onfray	3 and 4	170	5	7 50
J. Mandot	3 and 4	183	25	37 50
D. Bigard	4	186	10	10 00
John Dalmas	4	184	25	25 00
F. Roncati	3 and 4	195	15	22 50
M. Burnet	3 and 4	196	10	15 00
Th. Thiele	3 and 4	200	20	30 00
W. R. Maurice	3 and 4	201	15	22 50

By order of the Board of Trustees.

20-5t ARNAVON, Secretary.

San Francisco, May 14th, 1864.

Royal Eagle & Cliff, Gold Hill District.....Sale June 15th

Palmyra Consolidated Gold and Silver Mining Company, Palmyra District, Lyon county, N. T.—Office 625 Clay street, San Francisco, California.

Notice is hereby given, that, in accordance with an order duly made by the Board of Trustees of the above named Company, there will be sold, at Public Auction, at the office of the Company, on MONDAY, the 13th day of June, 1864, at 12 o'clock M., to the highest bidder, for cash, payable in United States coin, so many shares of the capital stock of said Company, standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay the assessment now due thereon, together with cost of advertising and all accruing charges, unless the same be previously paid:

Names.	No. Shs.	Amt.	Names.	No. Shs.	Amt.
O A Briar	500	$125 00	H H Lhvill	10	$2 50
Sarah A Broder	10	2 50	Geo P Morrill	10	2 50
J W Belden	25	6 25	M E Morrill	150	37 50
Charles Cook	5	1 25	N O Mitchell	25	6 25
J Casper	10	2 50	John C Morrill	25	6 25
George Conran	590	147 50	N Nason	119	29 75
C Conrad	5	1 25	H J Palne	50	12 50
J H Dupaix	5	1 25	A C Power	5	1 25
Julius Ehrenburg	10	2 50	George W Swaln	10	2 50
P Fechan	10	2 50	A Staples	25	6 25
H Griffin	5	1 25	J Silversmith	10	2 50
L D Gavitt	30	7 50	E U Sparkett	10	2 50
H M Goodman	50	12 50	T A Talbert	400	100 00
E W Harrison	5	1 25	A A Van Voorhis	5	1 25
Charles Hadsell	100	25 00	R J Van Voorhis	5	1 25
M J Hewly	25	6 25	M Zejarkowsky	10	2 50
Charles Hirsfeld	5	1 25	L Whipple	200	50 00
J Humphreys	295	73 75	S Wood	345	86 25
D Kendrick	135	33 75	W Wadsworth	50	12 50
A Konitzke	5	1 25	B C Whitman	100	25 00
James Kennedy	25	6 25	John T Welcher	500	125 00
H Langerman	550	137 50			

By order of the Board of Trustees.

20-5t C. W. HAYDEN, Secretary.

Palmyra Consolidated, Palmyra.....Sale June 13th

Mount Vernon, Smoky Valley, 50 cents..Adv. June 11—Sale June 25th

Ophir of the Colorado No. 1 Gold and Silver Mining Company.—Office No. 620 Washington street, San Francisco.

NOTICE.—There is delinquent upon the following described stock, on account of assessments levied on the 20th day of August, 1863, of thirty (30) cents per share, on each and every share of the capital stock of said Company, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certs.	No. Shares.	Amt.
Charles Hamilton	54	200	$60 00
Charles Hamilton	55	50	15 00
Charles Hamilton	56	20	6 00
Charles Hamilton	57	20	6 00
Charles Hamilton	59	20	6 00
Charles Hamilton	60	20	6 00
Charles Hamilton	61	10	3 00
Charles Hamilton	62	10	3 00
Charles Hamilton	63	10	3 00
Charles Hamilton	64	10	3 00
Charles Hamilton	65	10	3 00
		380	$114 00

And in accordance with law, and an order of the Board of Trustees, made on the 7th inst., so many shares of said stock as may be necessary, will be sold, at Public Auction, at the office of the Company, June 11th, A. D. 1864, at the hour of 12 o'clock M., to pay said delinquent assessments thereon, together with cost of advertising and expenses of sale, unless sooner paid. Location of claim, Colorado District, El Dorado Canon, Territory of Arizona.

RODNEY CLARK, Secretary.

San Francisco, May 7th, 1864. 20-4t

Before Cutting the Leaves of this journal, stitch each No. through the back, or fasten with a large pin, and you will have a paper in the most convenient form possible for reading or reference

Mining and Scientific Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

VOLUME VIII. SAN FRANCISCO, SATURDAY, MAY 21, 1864. NUMBER 21.

Contents:

No. 21—May 21.—Twenty Pages.—Desulphurizing Coals The Formation of Metallic Veins—No. IV.; The Red Copper Bend with Borax; Letter from Silver Mountain; Reese River Correspondence; Reese River—Amador District; State Geological Rooms; MINING STOCKHOLDERS' DIRECTORY—Contains List of all San Francisco Mining Notices; Prices Bid and Asked at the Stock and Exchange Board, and Total Sales of the Week by all the San Francisco Boards; Mechanical—Home Industry—Pacific Foundry; Mineral Claims for School Purposes; California Barrel Manufactory; Patents and Inventions—Patent Extension Schemes; O. H. Taylor's Amalgamator, A New Magnetic Engine, Hay-loading Machine; Mining Gossip; Original Items; Summary of Mining News—Californita, Washoe and Humboldt, Etc., Etc.—Owensville and Its Mines.—Monitor District, Alpine County.—Washoe Items.

Desulphurizing Coal.—Mr. J. J. Keating, of Stockton, is experimenting in that city with some apparatus for desulphurizing coal. The proecss has heen patented. If it should prove successful, says the Stockton *Independent*, the process will he of much value, as all the coal used for mechanical purposes in forging iron is now imported at a cost of from thirty to forty dollars per ton, whereas the product of our own coal mines, if this desulphurizing process succeeds, can he supplied for less than half the cost. The process of extracting the sulphur is hy a general chemical application, and, of necessity, the ingredients used must be volatile in their character. Blacksmiths will soon have an opportunity of testing the coal after it has gone through the process, and their report will be looked for with interest.

We may observe, in reference to the above, that the value of the result aimed at has long since ceased to he in douht; hut our Stockton contemporary does not give us a clue to either the new method or its progress. Of past workers in this direction, Mr. Calvert, an English chemist, long since patented the use of salt based on these reactions. "Bi-sulphuret of iron is decomposed hy heat, and in contact with salt forms, among other products, chlorids of iron, and this, in the presence of water, at a high temperature, is resolved into oxide of iron and hydrochloric acid." A late writer of authority, in reviewing the results of experiments with salted coke, as published hy the inventor, says that they are not conclusive as to the effect on the coke. It is obvious that any improvement obtained in the result from the smelting furnace, may have heen produced there, without any previous alteration in the coking oven. Some advantage does, however, seem to have been obtained, whether the one invented and patented is another matter. A correspondent (also a chemist) writes us that he was present in the laboratory of Dr. D. Parmelee, in New York, last year, and saw a coke submitted to analysis which had been prepared by a secret process that was much vaunted for this especial purpose; but it contained too much sulphur to be recommended for the object required—melting iron direct from the ore.

"The American Mining Gazette and Geological Magazine" is the title of a new magazine which has made its appearance in New York, the first number of which is before us, and contains eighty-four pages of valuable reading matter, all of which is appropriate to a publication hearing the above title. The opening number of this magazine augurs well for its success—at least if success is in any way founded upon merit. It will always he a welcome visitor to our table. It is published at 79 Pine street, New York, by Gilbert E. Currie, at $5 per annum, in advance.

[Written for the Mining and Scientific Press.]

Owensville and Its Mines.

Messrs Editors:—Since my last communication, I have been camped in the vicinity of this place and have carefully noted its progress, also the development of its neighboring mines. Our miners are deserving of much praise for what they have done towards the development and improvement of so rich a mining and agricultural district as this now seems to be.

The several mining companies in this district are busy opening and prospecting their claims. They all have a large amount of work before them, and up to the present time have been successful in getting good rock from their ledges. Among these companies now organized and at work are the Rubicon, San Francisco, Marathon, Great Western, Golden Wedge and Silver Creek Companies. But little attention is now paid to mines except those of quartz. A few are still prospecting for placer diggings in the foot-hills of the Sierra Nevadas hut with little prospect of success. So far as I have examined the ledges in this district, I have met with none which were not well defined and apparently permanent. Assays of two and three thousand dollars per ton are quite common; one made from the Marathon went over $3000. Carbonate of silver, a rich and rare mineral, is said to he found in some parts of this ledge.

With regard to the progress of the Valley it is seldom we meet with as much improvement made in so short a time. Six months ago it was considered unsafe to travel in this portion of the valley, except in parties of ten or more. Not a habitation of any kind was then to be seen; but as soon as the wealth of the mines became known, the aspect of the whole country changed, and instead of travelers and prospectors rushing past dangers, and leaving behind them the hidden wealth of the valley, they concluded to stop and try what virtue there was to he found in a possessory title. People settled so rapidly in the valley and mines, that the Indians thought it prudent to keep quiet, and have made a most favorable treaty of peace and friendship. Joaquia Jim, is allowed to go and come when and where he pleases, although much to the chagrin of many old prospectors.

Owensville is the center of a large agricultural and mining country, and is growing rapidly. Several fine stone buildings have been built, three of which are used for groceries and dry goods stores; others for store-houses for the different mining companies, and others still for dwelling and boarding houses. Several wooden houses are going up and some are already completed. The Saw Mill, on Big Pine Creek furnishes the best class of pine lumber at $75 per thousand; another mill will soon he built on Bishop's Creek, at a point some ten miles west of this place. The farming community is constantly increasing, and many fields of barley and other grains are looking well. The principal crops this year, will be barley and vegetables.

A division of the Sons of Temperance has been organized and meets at Owensville; we are also favored with divine service occasionally. The climate here is delightful, no place where I have been can compete with it for healthfulness. There is an abundance of grass throughout the valley and river bottoms.

A Prospector.

Preparations for the Mechanics' Fair are going on actively.

Mining and Assay Class.—Professor Price will commence his third mining and assay class about the first of June next, at his Laboratory, No. 5, First street, in this city. We are pleased to state that the efforts of the Professor to establish a permanent mining and assay school in San Francisco, are meeting with the most abundant success. His present class, now drawing to a close, numbers over twenty members, all of whom unite in according to him the highest meed of praise for his untiring and most successful efforts in imparting instruction in this difficult yet important branch of education. The laboratory is now well fitted up for work, and pupils enjoy every desirable opportunity for an agreeable and successful prosecution of their studies, both in the theory and practice of assaying. All persons engaged in the active operations of mining or prospecting, who have not already availed themselves of similar opportunities, should embrace the facilities now afforded them to prepare themselves for manipulating and examining the various ores met with in the mines in a scientific and practical manner. We understand that the Professor will soon commence a class in analytical chemistry, at the same place as above, but on other evenings, where all who wish to become acquainted with that useful and interesting branch of science, will have an opportunity to do so under facilities rarely offered outside the walls of our leading collegiate institutions.

Virginia and Gold Hill Directory.—We have received the prospectus of the above named Directory, which will he issued and ready for delivery about the first of July, by Mr. Charles Collins, who is now in this city superintending its publication. In addition to the usual features of a business directory, it will also contain a full and carefully prepared mining directory, giving the names of the different companies, their Secretaries and places of business. It has been the aim of the publisher to secure accuracy, rather than extent in the information given. The work will contain upwards of 300 pages, and will form a valuable handbook of statistical facts and useful information to every person interested in matters pertaining to Virginia City and Gold Hill. J. M. Wolf, the enterprising agent of the Mining and Scientific Press, has collated the mining directory.

The New York Rioters.—No official account has ever been published of the loss of life in the New York anti-draft riots, of July last. The Syracuse *Journal*, however, in a late issue, states on what it considers very reliable information, that the number who paid the forfeit of their lives for the outrages committed during those four terrible days of anarchy cannot fall short of 1,150, while some set it as high as 1,500. The larger portion died from the effects of blows from policemen's clubs. Very few, comparatively, died upon the ground, or in the heat of the excitement. A large number of the rioters will carry the marks of their punishment to their graves. The lesson has been a fearful one to the lawless and disorderly masses of that great city.

Communications.

Written for the Mining and Scientific Press.]

THE FORMATION OF METALLIC VEINS.

NUMBER IV.

BY EDWARD A. MILES.

In the geological systems of veins, extensive surfaces undergoing decomposition must produce a large amount of electricity; a multiplication of surfaces, instead of adding to the quantity, gives, according to electrical laws, intensity or force to the original current in direct ratio with the increase. The electricity moving from the most to the least decomposable surface finds its poorest conductor in the quartz or spar of a vein wherein the quality of intensity is exerted for its passage. And in this most durable rock of the galvanic series of plates the higher metallic forms become fixed beyond eventual removal by the same working power. Near all true fissure veins there are found two or more kinds of bed rock, each decomposable in different degrees, while many segregated veins are connected with but one general mineralogical formation. In direct keeping with voltaic analogies, the most favorable metallic veins exist at or near the divisional line of two different mineralogical strata, and local variations of the magnetic needle are often noticed by surveyors to be very great near such lines, particularly where no veins exist. In most rich mining sections a still further compound character is given to the system of the true vein by the presence of other veins, generally poor, but assisting in the enriching operation. The number and position of these, when acting as branches, spurs or cross veins, as intercceptors of the currents flowing along the planes of those strata not within the immediate influence of the main vein, have a decided bearing on the metallic wealth, the junctional points of all such connections being usually the richer portions of a vein.

According to their particular dispositions to be deposited or removed from solution by the opposite poles of a galvanic battery, the simple elements have been relatively divided into electro-negative and electro-positive bodies, and in proportion to their greater separation in the scale, so increase their natural affinities for each other. Gold and silver are intermediate between silicon, on the one hand, and calcium and magnesium on the other. Thus, in referring back to the explanation of the chemical process by which veinstone is deposited, if gold existed with magnesia in extremely microscopic proportion, it would have had a different affinitive choice when the latter united with the carbonate of lime, and consequently sought an alliance with the quartz, with an aggregating tendency to unite with the already deposited atoms of its own kind.

As in nature no two scenes can be discovered exactly alike, so in the essential features of geology, mineralogy, topography and operating causes, no two mining districts can be said to totally correspond. For this reason, there must ever be a difference in their electrical influences and creations.—The respective ores of the Mexican, Californian, Virginia City, Silver Mountain, Esmeralda, Reese River and Humboldt mines are easily distinguishable from any others; and so also are the specimens from numerous ledges of a district recognizable by name under the inspection of an experienced quartz miner. With veins formed by infiltration from the surface, or by igneous eruption, there should only be found the general deviation of structure seen in sedimentary beds and igneous dykes.

There is a form peculiar to each distinct combination of metals, and a clear connection with the quartzose and sparry crystallization. Gold and tin have veinstones approximating to their own closeness of texture in deposit, while the matrix of silver takes the more crystalline character assimilating to that of its ores. *Points* best give discharge and reception to electricity; with two parallel plates of quartz, the points of whose crystals are in opposite juxtaposition, there may be supposed a concentration and a rapid interchange of electricities through the fluid flowing between, whereby the metallic elements are deposited from solution on one or both plates, bands of sulphurets being formed in narrow spaces, and nodules in geode-like cavities. After the crystals have aggregated metals, so as to be unable to operate with sufficient electro-chemical power, in consequence of greater dispersion, the silica, by reason of its disposition to cover rough surfaces, forms thereon other bases of crystallization. The delicate lines or rays of crystals often penetrate a mass of ore, but never free from a connection with the main body of quartz.

From numerous specimens in the writer's possession, showing the progressive developments of veins, he will select two pieces of argentiferous quartz from Washoe. One of them on both sides shows portions of its former porphyry attachment to the walls of a fissure; at one end, in the middle, the interlocking of the crystals of two plates is quite evident, while lower down they are joined together in one homogenous mass. Midway between the side and center on either plate, are two wavy bands of sulphurets, whose parallel lines of contour are in direct proportion to each other, although divided by a slight partition of quartz. It is evident, from the peculiar radiation of the quartz, that the sulphurets have at two intervals of time filled the crystalline faces of the plates, and then suffered entombment while acting as the bases of the internal crystallization. The other piece has its face of small crystals thickly spattered with thin blotches of antimonial silver, and in a few cavities crystals of the same. The surface has a general dusky appearance, and on examination with a magnifying glass shows fine black lines of metal webbing the angular spaces between the crystals. The latter piece also holds a portion of the slate wall rock in a forward state of dissection and decomposition, being minutely divided by small veins of quartz containing metal. In Butte county, in this State, there is a ledge, or rather series of quartz and slate bands, of considerable width altogether, wherein the dissimilar forms of shot, flake, fine and wire gold occupy respective places or bands, distinguished by separate peculiarities of structure. In Europe are large veins, and in this country smaller ones compounded of distinct vertical bands or plates of quartz, and the various spars, each possessing different metallic contents. These distinctions of structure and impregnation indicate various modifications, seats and eras of electrical action.

In certain highly siliceous geological formations it is apparent that the electro chemical power may be greatly exerted in enlarging quartz veins with but little, if any, acquisition of metals. After costly experience with a large ledge, well defined even at a depth of five hundred feet, and according to the theory of igneous origin well bestowed with neighboring erupted dykes, though altogether siliceous in nature, this fact became forcibly impressed upon the writer's mind, and induced him to turn his attention to the mineralogical associations of veins.

In the art of electro metallurgy, the character of the metallic deposit which an operator desires to secure in a mould or on a cast, is regulated by the intensity and quantity of the electricity, as compared with the strength of the solution, or, in other words, as the combative force and quantity of the acting current in contrast with those intrenched in the solved elements. Without entering into an explanation of the particular relations required, it is only needful to state that thereby the metals are differently deposited, as particles too fine to reflect a ray of light, and consequently black as sand, in a spongy and a grainy form, as separate crystals, and, when the currents are nearly equal, in a reguline or compact deposit. These results show the variations that can be and are produced in veins by electricity.

Besides the original operations of the electro-chemical power in veins, there seems to have been, in some instances, secondary action, owing to local or other influences, bringing about decomposition and removal of the base and concentration of the valuable metals. The more stable metals under this condition have thrown off their common alliance with sulphur and other elements, being either reduced to a pure form, or modified into chlorides, sulphides, bromides, etc. In some veins of this class the writer has observed on the sides of the natural seams in the quartz, numerous images composed of metallic oxides, and resembling the brush discharge of machine electricity. Similar images of pure silver are common in some Mexican mines, and may result from the discharge of thunder clouds.

To the voltaic mode of accretion can be assigned those metallic formations possessing no distinct vein stone, such as contact deposits existing between two dissimilar geological and mineralogical strata, and disseminated deposits, such as platina in trap rock. The successful copper mines of California assimilate to the former character. The absence of veinstone in contact deposits, may result from the confinement of the electro-chemical agency to the more solvent metals which distinguish them. From what the writer knows of the surroundings of copper veins, he should say that they are created by a subdued working power. The masses of copper sulphurets in the mines of our State are attended by flanking walls of talc, which perhaps possess the same essential characteristics for the electrical action as veinstones mingled with other ores.

The presence of a common attendant of volcanic eruptions, sulphur, in combination with metals, has, perhaps, as much as anything else, induced a belief in the igneous construction of veins. Yet sulphur is as universally dispersed throughout the earth as iron, and is no more a companion of volcanic heat than it is of water and inert earth.

Much stress is also given to the occurence of slaty strips, termed selvage bands, along the sides of veins and visible striations, seemingly from mechanical friction, between the walls and veinstone, in the line of their dips, as a strong proof of the igneous creation of veins. The former appear to be intermediate in character between the veinstone and walls, and are no more remarkable than similar bands occasionally seen in masses of quartz; their metamorphism, through the impregnation of iron or silica, indicates water rather than fire as the agents. The striations often mark the direction of rich pockets or chambers, usually leading from one to another at different angles with the dip of the veins.. They are, undoubtedly, the crystalline paths of strong electrical working.—Similar looking striations exteriorly mark the direction of the chief axis of the crystals of tourmaline and other minerals. In the Reese River mines, where they are frequently seen scoring the smooth walls of veins in the granite formation, the writer had all doubts of their origin removed from his mind on examination of the rotten metamorphosed granite, at water level, in one of the shafts. The moist rock for some distance from any quartz, peels down in broad flakes a few inches thick, showing the exterior smoothness and grooving noticed in the hard upper walls of the veins. The lines of lamination curve more or less in various directions, with, however, one general tendency toward the nearest veins.

[To be Continued.]

[Written for the Mining and Scientific Press.]

The Red Copper Bead With Borax.

Mr. Editor:—On page 249 of this volume of your paper, you inserted a short notice from me of some laboratory observations with the blow-pipe. I then stated that the result with protoxide of iron was "nearly as sensitive a reduction *of* the copper" as with the tin. This phenomenon of the red coloration of the bead with copper has since received additional interest from a fact communicated to the *Chemical News*, of London, England, by a Mr. Garland, and the result is one of much practical importance. It has been determined by that gentleman that this color is not produced in the deoxidizing portion of a *gas blow-pipe jet* as it is with the mouth blow-pipe; but also that this color is produced on re-heating the colorless bead first obtained with borax on the platina wire when copper is present. His whole communication is well worthy of attention, as he founds on the new re-action, a process of blow-pipe analysis for copper, in presence of other metals.

This matter also affords a very instructive illustration of the importance to be attached by all blow-pipe experimenters to the objections raised by Berzelius to any alteration of the usual methods of applying a jet from the month. It should ever be borne in mind that it was with such a jet that he obtained the re-actions he published. We depend in great part on producing them, as he did, for the interpretation of the same appearances as indications of the same minerals. He ascribes to the mouth blow-pipe jet a definite temperature—the air supplied from a reservoir producing the same temperature will obviously have a different composition. He will be a bold experimenter who will venture to assume the identity of results, obtained with different agents applied to unknown materials, and the absence of experiments cannot be compensated by any supposed convenience. Where a definite operation, such as expellation, is to be performed, a mechanical substitute for the mouth may of course be permitted, as it will involve no such source of error.

J. H. Churchill.

San Francisco, May 14, 1864.

Another Foundry in Washoe.—Messrs. McCurdy, Brothers & Co., are erecting a new foundry and machine shop, to be called the Gold Hill Foundry. The site selected is the space between the Nevada Hotel and the Imperial Mill. It will be in operation in about four weeks.

[Written for the Mining and Scientific Press.]

Letter from Silver Mountain.

Messrs. Editors:—The Silver Mountain mining region has been generally known abroad as comprising all the mineral section between the summit of the Sierra Nevada mountains and the eastern boundary of the State of California, now included in the new county of Alpine. Though this designation was doubtless applicable immediately after the discovery of silver bearing rock in the numerous ledges which traverse the country, more distinct specifications are now required to determine the numerous locations and interests. The country has therefore been divided into different mining districts, among which we find Silver Mountain, Alpine, Mokelumne, Mogul, Monitor, Raymond, Silver King, Highland and Genesee, all within the new county of Alpine.

The town of Silver Mountain, in Silver Mountain district, is situated in a beautiful valley about six miles northeast of the summit of the Sierra Nevada mountains. Silver creek, which finds an eternal source in the mountain snows, flows through this valley with a sparkling purity which cannot be excelled. Lofty and rugged mountains of porphyry rise on all sides of this valley, except to the northeastward, where Silver creek finds an outlet through a steep cañon. About three miles below Silver Mountain, this creek forms a junction with the main Carson river.

The town of Silver Mountain is regularly and scientifically laid off into blocks and lots, all of which have long since had claimants. At the present writing it contains five stores which deal in general merchandise, one hardware store, two hotels, two blacksmith shops, one restaurant, one meat market, two sawmills, and several places where the "poison" is dealt which "maketh the brain mad." Many buildings are in course of erection, and so many different branches of business are in process of creation, that it is impossible to conjecture what may be the condition of business a month hence. It is probable, however, that each of the several business interests enumerated will be more than multiplied in a very few weeks, as the only impediment to the rapid erection of buildings is the want of lumber, which the two mills in operation cannot supply in quantities sufficient to meet the demand. Two additional sawmills are, however, in course of erection, and when put in operation the number of substantial and expensive buildings being erected will increase, and a town will at once arise, not like a "Phœnix from the ashes" of former greatness, but from the, ere while, silent wilderness.

I do not profess to be sufficient of a mineralogist to pronounce upon the future prospects of this new and extensive country from the "indications;" but it is certain that there can be no doubt about the absolute confidence of this people. They look forward to developments equal to anything yet discovered upon the continent, and believe that in a very short time Silver Mountain town will be a second and improved edition of Virginia City, in Nevada Territory. I cannot see any good reason why these great expectations should not be realized. If they have but the mineral they have every facility a kind and provident Nature has afforded to any portion of the Pacific slope. Healthy climate, abundance of the purest waters, and a plentiful supply of timber. Of the ledges they seem to have no doubt. The only question is as to the means and appliances for extracting the mineral.

Among the lodes which have attained notoriety in Silver Mountain district, are the I.X.L., Big Mountain, Lady Franklin, Forest Queen, Gould & Curry, Buckeye No. 1, Buckeye No. 2, Twin, Noble, Murphy, Mammoth, Geo. Washington, etc.

The Big Tree and Carson Valley Turnpike Company are busily engaged with a force of about one hundred and fifty men, completing the connexion with Silver Mountain. About two miles yet remains to construct, which, it is believed, will require three or four weeks, when there will be a direct and uninterrupted thoroughfare to Stockton, via Murphy's, in Calaveras county.

The energy and perseverance exhibited by these pioneers deserves a sure reward, while it adds additional weight to the evidence continually transpiring that this people will in time become the masters of every situation. Argent.

Silver Mountain, Alpine county, Cal.

Silver, it is said, has been discovered in the pineries in Burnett county, Wisconsin.

[Written for the Mining and Scientific Press.]

Reese River Correspondence.

NEW YORK CANON.

To reach this Cañon we have a rugged mountain to scramble over. This mountain was a year ago covered with pine wood and cedar, which is now stacked in piles ready for the mills and *habitans* of Austin. This hill is covered with slate, the genuine article, as it has scaled off and slid down. Quartz is also here in great abundance. Not long hence (mark the prediction!) great discoveries will be made here. The Whitener tunnel, in the New York Cañon, has been advanced to the distance of 150 feet through a bastard formation. There is an incline in the tunnel, from which it is said some fair looking quartz has been taken out. As the incline is now full of water, we were unable to see what sort of a ledge it was. This tunnel will have to be advanced about 200 feet further before they will strike the large ledge. The company undoubtedly possesses much nerve to have projected the tunnel thus far; but if they do not possess a plethoric purse we fear *they* will not reap the benefit of their labors. Lower down the Cañon we can see several holes, but have not the time to visit them. As we climb the ridge that divides New York Cañon from San Francisco Cañon, we pass the Montgomery Street ledge. This Company has an incline thirty feet down.

SAN FRANCISCO CANON.

Towering high in the air are the croppings of the Mountain King. This Company's tunnel has been advanced 150 feet into the mountain, and passes through two ledges, thirteen and four feet in width, but are running for the large ledge, fifteen feet in width. Immediately opposite the Mountain King, on the other side of the Cañon, are Forts Wagner and Sumter, beside the Highland Ranger. They are all large ledges. The incline on Fort Wagner is twenty-five feet in depth, and the ledge rock of good character. The Highland Ranger's incline is sixty feet in depth. Not far from the Mountain King's tunnel is the Mart Carroll and its extension. Not much labor has, as yet, been bestowed upon them. The cost of sinking an incline or tunneling in this Cañon must be double as great as it is on Lander or Oregon Hill. There are probably fifty other locations in this Cañon besides those I have named. Near the mouth of the Cañon is a pretty eight stamp steam quartz mill, erected late last Fall. It serves at present the purpose of prospecting the rock taken from the different ledges. But one divide or ridge separates us from the Amador district, but the day is far spent and we are weary, and will consequently wend our way toward Austin. The road we have taken the reader to-day is about fifteen miles, up and down, and on the sides of steep hills.

RESUME.

The Oregon, North Star and the Isabella, situated on Oregon Hill, and the Maggie, at Yankee Blade, are turning out steadily some of the richest argentiferous ore that ever gladdened the eye or weighed down the pocket of the master miner.

Apropos: The North Star G. & S. M. Co., incorporated in San Francisco, is not the Company whose ledge has produced so much of the silver ore; it is the first north extension of it, however, and when the work is done upon its ledge, may prove equally well. The Troy is widening, they say, and is very rich. Should it turn out much, siege will be laid to it for the "Helen" contained therein.

The weather is delightful; grass is springing up, and miners are setting out for the districts of Smoky, Santa Fe and Summit, which are considered the best, as they are contiguous. Amador sends in good reports. X.

[Written for the Mining and Scientific Press.]

Reese River—Amador District.

Messrs. Editors:—I have noticed, with pleasure, the numerous letters which you have published from various parts of the mines, and particularly from Reese River. Being well acquainted with that region, I can attest to the truthfulness of the statements therein given. Some of these mines, particularly those in Amador district, will warrant even more than has been said of them. The development of the Amador mine is well managed, but the manner in which its ores have been treated at the mills is anything but creditable; $417 per ton was taken, by assay, out of the tailings from a late crushing. There is much complaint made generally with regard to our mills, which is operating greatly to the disadvantage of our mines. There seems, also, to be an unmerited prejudice growing up on the part of our Washoe neighbors with regard to this region.

Among the prominent mines of this district, most of which have struck the water line, and all of which are developing fine mineral, I may mention the North Star, the Oregon Consolidated (very rich at a depth of 85 feet), the Roanoke, Western Oregon, Maggie, Oak Ranch, Tray, Isabella, Emma Funston, Vesta, Toronto, Stephen A. Douglas, Ontario, Plutarch, Gov. Seymour, Rubicon, Shenandoah Tunnel Co., etc. Each and all of these claims are well developed, with every indication of permanency. These facts I have obtained from personal observation.

The Amador district is fully equal, if not superior, in point of value, to the Reese River district. The Rough & Ready is one of the best defined ledges in the Territory. This claim, containing 1,800 feet, was located about eight months ago by some energetic miners from Rough & Ready, Nevada county. The surface rock from this claim has yielded, by mill process, $186 per ton, and that from its incline has gone as high as $847. They have now some seventy tons out, from which you can scarcely select a piece that does not show native silver. This company, since incorporation in March last, has levied no assessments, all expenses having been met from their crushing, and has now several thousands of dollars in their treasury. Numerous other mines in this district are considered equally good, though undeveloped to the same extent. I might mention the Old Hickory, Belmont, Sumter, Wagner, Standard, Legal Tender, etc. C.

The State Geological Rooms are now being fitted up with more than Oriental splendor, and are to be placed at a rent of something over $18,000 per annum. These preparations, however, have not been made to display to greater advantage that valuable collection of curiosities and remnants of former ages which should be the delight of every Californian, and which, could they be properly arranged, would form a profitable study for thousands who are eager to avail themselves of such an opportunity. These valuables are still packed and stuffed in dirty boxes, and pushed yet further away, to accommodate pleasure-seekers who have accidentally grown rich out of speculation in mining feet. The rich and glorious State of California is too poor to provide room for the precious treasures which have been gathered from her area with so much toil and care; but her citizens can pour out their thousands to support an establishment of at best but doubtful reality. For shame, gentlemen of the Legislature! for shame, citizens of San Francisco! to let the ball and cue out-bid and drive from your sight precious treasures which the learned and wealthy of Europe would gladly purchase at ten times their cost, and display with a care and pride totally regardless of expense!

The Present Irish Emigration to the United States, according to the Cork *Examiner*, is of a character superior to any which has preceded it. The great bulk is made up of stalwart young men, full of health and vigor, and fine looking young women, from the very best class of the Irish peasantry. Very few are seen poorly attired, and the general conduct of all is remarkable for propriety and soberness. The *Examiner* does not think there are many going with any view to enlistment, but that they are almost universally moved in this direction by the dazzling prospects held out by the lately improved labor market of the Northern States.

Bullion Railroad.—An iron railway track, has just been laid down in the office of Wells, Fargo & Co. at Virginia which, says the *Union* of that City, is a matter of wonder to many visitors until it is explained to them that it is for the purpose of carrying from behind the counter to the door the immense amount of bullion which is shipped to San Francisco daily by the Pioneer Stages. If it was stated in an eastern city, where greenbacks are almost the sole medium of exchange, that such a railroad had to be constructed here to convey the silver bars that are taken from our mines, the narrator would lay himself liable to the ridicule of his incredulous hearers.

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and the Place of Business of the Corperation if it is not in San Francisco.

REVISED EVERY ISSUE.

Advertised in the Mining and Scientific Press

AND OTHER SAN FRANCISCO JOURNALS*.

Augusta, Augusta, 12½ cents.....Adv. May 21—Sale July 25*
Astor, Ravenswood, 50 cents.....Sale June 29*
Amador Cons., Amador, R. R., $5.....Sale June 15
Amagoza, Salt Spring, four dollars.....Sale June 1t
Agnemuon, Kersey, 5c, 3c and 5c.....Sale June 14
Arlington, St. Mary's, 10 cents.....Sale June 8
Arizona Cons., Eureka, 20 cents.....Sale June 15
Argent-Oro, Reese River, $1.....Sale June 18
Apache Chief, La Paz.....Sale May 25
Alhambra, $1.....Adv. May 12—Sale June 10
Altaville Quartz, Calaveras county, $2.....Sale June 14
Alemania, San Antonio, $2.....Sale June 18
Arizona, Eureka.....Adjd Annual Meeting May 23
Alhambra Summit, $1.....Sale June 10
Arizona, Weaver, $1.....Adv. June 13—Sale June 25
Arizona, Weaver, 50 cents.....Sale June 13
Antelope, Low Divide.....Sale June 13
Arbitres, Batopilas, Mexico, $2.....Sale May 28
American Pioneer.....Adjourned Meeting, May 23
Apache Chief, La Paz, 50 cents.....Sale June 13
Ancho, Inyo.....Adv. May 17—Sale June 16
Ætna, Esmeralda, $2.....Adv. May 20—Sale June 22

Bay City, Reese River.....Quarterly Meeting, May 30*
Butler, Reese River, 20 cents.....Sale May 25*
Butte, Reese River, 50 cents.....Sale June 4*
Billett, Reese River, 12½ cents.....Sale May 25*
Big Blue Lead Cave, $1.....Adv. June 15—Sale June 27
Baja California, San Antonio, $1.....Sale June 7
Black Ledge, Reese River, 50 cents.....Sale May 28
Blanding, Devil's Gate, 50 cents.....Sale May 23
Bodie Cons., No. 2.....Meeting May 27
Bay, Clayton, 50 cents.....Sale May 31
Baltic.....Sale May 30—Virginia
Buffalo, Calaveras, 50 cents.....Sale June 10
Buckeye, Devil's Gate, $3.....Adv. May 6—Sale June 13
Bella Vista, Cacachilas, $1.....Sale June 11
Bullion.....Sale June 2, Virginia
Black Prince, R. R., 50 cents.....Sale June 20
Beach & Paxton, Virginia.....Sale May 30
Black Rock Ledge, R. R., $1.....Adv. June 15—Sale July 2
Barreteros, Cesala, Mexico, $5.....Adv. June 15—Sale June 29
Bella Union, S. F.....Annual Meeting, June 1
Butte, Santa Clara, $1.....Adv. June 18—Sale June 29
Bajazett & Golden Era Cons., $5.....Levied May 13—Virginia
Best & Belcher, Virginia, $25.....Adv. June 20—Sale July 2
Blue Ledge, Lovell, R. R., 50 cents & 50 cents.....Sale June 25
Badger, Washington, 25 cents.....Adv. June 11—Sale July 1

Caledonia.....Sale June 18*
Cortez, Cortez district, $2.50.....Sale June 20*
Crown Point, Reese River, 50 cents.....Sale June 15*
Cedar, Esmeralda.....Sale May 16*
Cedar, Esmeralda.....Annual Meeting June 6
Cacheco, Humboldt.....Sale May 30*
Caldwell, $1.....Adv. May 15—Sale June 15
Canago, Reese River, $1.....Sale June 11
Crockett, Esmeralda, $2.....Sale June 9
Chollar, Virginia, $12 50.....Sale May 28
Caledonia Tunnel, $3.....Sale May 25
Charles Cuny.....Sale May 24
Chrysopolis, Virginia, $1.50.....Sale June 10
Coral, Amador.....Sale May 21
Codicia, San Antonio, $2.....Sale May 25
Catalina Cons., San Pedro, 10 cents.....Sale June 11
Cox & Rose, Reese River, $1.....Sale May 25
Gox & Rose, Reese River.....Annual Meeting, June 6
Copp, Sierra.....Sale June 11
Cole.....Sale June 8
Cosala, Cosala, $2.....Sale May 25
Cedar Hill.....Special Meeting June 4
Crown Point, Gold Hill.....Sale May 28
Cortez, Big Creek.....Sale May 23
Coral Hill, Amador, 60 cents.....Sale May 28
Cinnabar, Virginia, 50 cents.....Sale June 18
Geso, Cuso, Sale.....Sale June 1
Crown Lead, Mariposa county, $1.....Sale June 18
Clinton, R. R., $1.....Sale June 6
California, La Paz.....Sale June 15
Commercial.....Annual Meeting May 23
Clinton, R. R., $1.....Adv. May 25—Sale June 6
Center, Empire, 25 cents.....Adv. June 15—Sale June 25
Coral Hill, cons. Amador.....Adv. May 16—Sale May 31
Coral Hill, Amador.....Annual Meeting June 3
Golloubc, Gold Hill, 50 cents.....Adv. May 17—Sale June 17
Chollar, Virginia, $12½.....Adv. May 17—Sale May 28
Chollar, Virginia.....Quarterly Meeting, June 1
Gonsolacion.....Meeting June 13
Consolacion, Sinaloa & Durango.....Adv. May 18—Sale June 4
Gomopolitan, Gopher, 50 cents.....Adv. June 18—Sale July 2
Gomet, 10 cents.....Levied May 19
Caselli, Indian Springs, 25c & 25c.....Adv. May 20—Sale June 22
Crockett Cons., $2.....Adv. May 20—Sale June 9

Dano, Esmeralda, 50 cents.....Sale May 25*
Dunkirk, Reese River, $1.....Adv. May 18—Sale June 4
Darrah, Amador, 50 cents.....Sale June 3
Diana, Reese River.....Sale June 3
Daniel Webster, Sacramento, 15 cents.....Sale May 25
Don Juan, Mochicahue, Mexico, 15 cents.....Sale June 21
Diamond.....Adjourned Meeting June 6
Daniel Webster, Devil's Gate, $1.....Adv. June 25—Sale July 16
Del Rey.....Annual Meeting June 6

Eureka, Mineral Spring.....Sale, May 30*
Excelsior, Reese River District, 25 cents.....Levied March 22*
Equal Chance.....Annual Meeting June 13*
Essex, Reese River, 20 cents.....Sale May 25*
Enterprise, El Dorado Canon.....Caution—Certificates Sold*
Enterprise, Reese River, 20 cents.....Sale May 25*
Eureka, Calaveras county, 20 cents.....Sale May 30*
Eureka Mill, Big Creek, five dollars.....Sale June 11*
Exchange, Lauder county, 25 cents.....Sale June 22*
Eyoca Cons.....Special Meeting May 26
El Dorado, Virginia, $2.....Adv. June 8—Sale June 22
El Dorado, Virginia, $2.....Sale June 11
Eclipse, Reese River.....Sale June 10
Ethan Allen, $1.....Sale June 4
Emilia, Guerrero, 25 cents.....Sale May 30
El Alamo de San Antonio, San Antonio, $1.....Sale June 10
Exchange, Low Divide, 13 cents.....Levied April 21
Eastern, R. R.....Annual Meeting June 6
Eclipse, Russ, $5.....Sale June 25
Empress, Gold Hill, $3.....Sale June 11
Empire, Santa Cruz, 25 cents.....Sale June 22

Those marked with an asterisk (*) are advertised in this paper.

El Dorado, Virginia, $2.....Sale June 22
El Dorado, Virginia, $2.....Sale June 11
Esmeralda.....Annual Meeting, June 6
Eagle, Quartz, Amador county, $1.....Sale June 15
Evening Star, Trinity, 50 cents.....Sale June 2
Evening Star, Trinity.....Meeting, June 30
East Range, Oro Fino.....Adv. May 14—Sale June 14
El Toro, Sinaloa, Mexico, $1.....Adv. May 14—Sale June 14
Echo, Gold Hill, $3.....Adv. June 16—Sale July 2
Eclipse, Sierra, 50c.....Adv. June 16—Sale June 29
El Taste, Sonora, Mexico, $5.....Adv. June 16—Sale June 27
Emilia, State of Guerrero, Mexico, 25c.....Adv. May 18—Sale June 6
Erie.....Meeting June 20, Austin, N. T

Franco Americana, San Antonio.....Sale May 21
Fork, 25 cents.....Sale May 25
Fork, Blue Mountain.....Adv. June 17—Sale July 6
Fiora, Reese River.....Annual Meeting, June 6
Fortuna, R. R., $1.....Adv. May 17—Sale June 14
Florida, R. R.....Special Meeting, June 1
France American, San Antonio, $10 & $t.Adv. May 18—Sale June 18
Fairview.....Adv. May 16—Sale June 15
Fellows, Quartz, $1.....Sale June 11

Great Central Tunnel, Virginia, 40c.....Adv. June 18—Sale July 6*
Grafton, Reese River, 25 cents.....Sale May 25*
George Leet, Reese River, 50 cents.....Sale June 15*
Gobernadora, Lower California, $1.....Sales May 30 and June 11*
Great Central, Weaver.....Sale June 8*
Green Monster, Inyo, $1.....Sale June 22*
Gratten, Echo, 10 cents.....Sale May 28
General Grant, Slate Mountain, 50 cents.....Sale June 11
Governor Downey Cons., Buena Vista, $1.....Sale June 17
Guadalupe, 50 cents.....Sale May 28
Garibaldi, Aurora.....Sale May 25
Green, Gold Hill.....Annual Meeting June 4
Golden Gate, Gold Hill, $1.....Sale May 26
Gold Rock, Murphy's Camp.....Sale May 28
Governor Seymour, Reese River, 50c and 50c.....Sale May 21
Germania, No. 2, 20 cents.....Sale June 14
Good Return, Inyo, 25c and 50c.....Sale June 8
Grand Turk, Gold Hill, 50 cents.....Sale May 31
Garibaldi, Esmeralda.....Special Meeting May 21
Goodwin, Simpson Park, 25 cents.....Sale June 18
Goodwin, Simpson Park, 25 cents.....Adv. May 31—Sale June 25
Guadalupe del Augusjito, San Javier, Mexico, 50 cents..Sale May 26
Guadulupe de Los Angeles, Durango, $1.....Sale June 21
General Hooker, 50 cents.....Sale June 16
Gold Hill, Coloma, 25 cents.....Sale May 30
Gopher, Copper.....Sale May 21
Good Hope, Alpine, 75 cents.....Sale June 8
General Rosecrans, Big Creek, 25 cents..Adv. May 31—Sale June 25
Gem Hill, Summit, 25 cents.....Sale June 10
Golden Circle, Amador.....Annual Meeting June 6

Henry & Barnard, Weaver.....Sale June 1*
Hyack, Reese River, 20c and 30c.....Sales May 25 and June 15*
Hawley, Devil's Gate.....Sale June 1
Hale & Norcross, Virginia.....Sale May 23
Hartford, $1.....Sale May 30
Humboldt, Sierra, $1.....Sale May 25
Heidleberg, Tomales Pais, 10 cents.....Sales June 1
Hornitos, Mariposa, $1.....Sale June 8
Hawley, Lyon county, $2½.....Sale June 4
Honest Miner No. 2, Lauder county, 50 cents.....Sale May 25
Humboldt, Humboldt county, $3.....Adv. May 28—Sale June 15
Highland Chief, Raymond, 25c.....Adv. June 14—Sale July 2
Hartford, Gold Hill, $t.....Adv. June 7—Sale July 18
Highlander, 10c.....Levied May 19

Illinois, Lander county, 50 cents.....Sale June 18*
Itasca, Reese River, 40 cents.....Sale June 22*
Ironsides, Esmeralda, 25 cents.....Sale June 10
Insurance, Virginia, $1.....Sale June 20
Iowa, Esmeralda.....Sale July 2
Ithrbide.....Quarterly Meeting, June 6
Iowa, Esmeralda, $2.....Sale June 13
Imperatrice, Eugene, Blue Mountain, 30c.Adv. June 11—Sale June 22
Ida, Lower Cal., 50c.....Levied May 14
Independent, R. R., $5.....Levied May 6, Gold Hill
Independent, R. R., $1.....Adv. June 21—Sale July 9, Gold Hill

Joe Douglas, Reese River, 50 cents.....Adv. June 18—Sale July 2*
John J Crittenden, R. R., 25 cents.....Sale May 28*
Jewel, Devil's Gate, $4.....Sale May 25
Julia, Virginia.....Sale May 31
Jessup, Calaveras county, $1.....Sale May 30
Josephine, Calaveras county, $1.....Sale May 30
Josephine, Coso, $1.....Sale June 27

Kelsey, El Dorado county, 25c.....Adv. May 14—Sale June 13*
Kelsey, El Dorado county.....Sale June 13*
Keokuk, Contra Costa county.....Sale May 25*
Kohler Brothers, Mexico.....Sale May 25

Lord Byron, Devil's Gate, $1.....Adv. May 21—Sale June 4*
La Marronena, L. C.....Meeting June 5—Sale May 30*
Lewis Cons., R. R., 25c and 25c.....Sales May 25 and June 15*
Logan.....Sale June 8*
Laura Johnson.....Sale June 3
Lander County Ophir, Big Creek.....Sale May 23
Los Cruzecitas, San Xavier, $6.75.....Sale June 13
Lafayette, Gold Hill, $5.....Adv. May 18—Sale June 1
Langhorne Cons., Summit, 50 cents.....Sale June 3
Lady Bryan.....Meeting May 25
Lady Bell, Del Norte county, 10 cents.....Sale May 28
La Providencia, $1.....Sale June 0
Lone Star, Reese River.....Annual Meeting June 6
Lady Bryan, Flowery, $3.....Sale June 25
London, Quartz, Siskiyou county, $1.....Sale June 11
Lyon & Leland Consolidated.....Sale May 30
La Candelama, Durango, Mexico.....Sale June 15
Lochinvar, Gopher, 30 cents.....Sale June 25
La Blanca, Uros, $2½.....Sale June 22
Las Posas, La Paz, $1.....Adv. June 13—Sale June 25
Las Posas, La Paz, 50c.....Sale June 13
Langhorne Cons, Summit, 50c.....Sale June 3
Legal Tender, Amador, $1.....Sale June 22
Live Oak, Washington, 25c.....Adv. June 11—Sale July 1
Lone Star, R. R., $1.....Adv. May 19—Sale June 22

Mount Zion, Clayton, 50 cents.....Adv. June 18—Sale July 6*
Mount Vernon, Smoky Valley, 50 cents..Adv. June 11—Sale June 25*
Mammoth, Rock Spring.....Sale May 28*
Minnehaha, Reese River District, 25 cents.....Levied March 22*
Mosquito, Calaveras County, $5.....Adv. June 11—Sale July 1*
Morning Call, Big Creek, 50 cents.....Adv. June 11—Sale June 29*
Mountain Mary, Silver Mountain.....Meeting May 21*
Mountain Mary, Silver Mountain, 25c.....Sale June 16*
Mount Eden, Gold Hill district.....Sale May 31*
Memphis, Reese River, 25 cents.....Sale May 25*
Meteor, Reese River, 20 cents.....Sale May 25*
Mammoth, San Bernardino, 50 cents.....Sale May 28*
Mount St. Helena, Bear, $1.....Sale June 2
Melones & Stanislaus, Carson Hill, $2.50.....Sale June 18
Monster Hill, Inyo, 25c and 50c.....Sale May 30
Minerva, Virginia, $25.....Sale June 4
Monterey, Devil's Gate.....Sale May 27
Monitor, Silver Mountain, $1.....Sale June 10
Maudat, Del Norte, 50 cents.....Sales May 10 and June 3
Metropolitan, Inyo, 25 cents.....Sale June 1

Mount Washington, Devil's Gate, 50 cents.....Sale May 23
Magna Charta.....Special Meeting June 1
Mammoth Ledge, Low Divide, 50 cents.....Sale May 28
Mina Prieta, Ures, $40.....Sale June 18
Mountain Queen, R. R.....Sale June 11
Merning Star, Great Mogul, 25 cents, 50 cents, & 30 cents. Sale June 14
Melrose.....Sale May 21, Humboldt City
Musidova, San Antonia.....Sale May 21
McLellan, Virginia, $2½.....Sale June 1
Melones Sink, Calaveras county, 15 cents.....Sale June 25
Magdalena, San Jose.....Annual Meeting, May 21
Moaster, Cons. 25 cents.....Adv. June 17—Sale July 2
Monte Cristo, Gold Hill.....Adv. June 15—Sale July 1
Melones & Stanislaus, Carson Hill, $2.50...Adv. June 4—Sale July 18
Mohave.....Meeting May 23
Mandet, Del Norte, 50 cents.....Adv. June 15—Sale June 27
Mary and Estella, 15c and 10c.....Levied Jan. 19 and Feb. 20
Molten, Inyo.....Adv. May 17—Sale June 16
Manchester, Moultor, $1.....Adv. June 21—Sale July 6

Noble Orand, Inyo.....Sale May 24*
Nicolaus, Reese River, 10c and 25c.....Sales May 25 and June 15*
Noonday, Centra Costa county, 20 cents.....Sale June 22*
North Potesi, Virginia, $12.50.....Sale June 11
North Star, Reese River.....Sale May 30
Nueva Fortuna, Cacachilus, 50 cents...Adv. May 18—Sale May 31
Nelson Cons., Gold Hill, $2.....Sale May 26
New England Cons., Santa Catalina.....Sale May 25
Nevada, Justice, $20.....Levied April 9—Virginia
North American, Gold Hill, $20.....Sale May 24—Virginia
Nebraska, Santa Catalina, 25 cents.....Sale May 30
North Valley Forge, Big Creek.....Sale May 23
New Era.....Annual Meeting June 6
Nevada, R. R.....Sale June 7
New England Cons., 5 cents.....Sale June 3
Nonpariel, Tuolumne county, $5.....Sale June 14
North Eclipse, Russ, 10 cents.....Sale June 20
Noble Grand, Inyo, 25 cents.....Adv. May 14—Sale May 21
North Eclipse, Russ, 10 cents.....Adv. June 5—Sale June 20
North Star.....Adjourned Meeting May 18
North Lawrence & Guilford Cons. 50c....Adv. June 15—Sale July 11
Nelson Cons., Gold Hill, $2.....Adv. May 15—Sale May 26
Norton, $1.....Adv. May 18—Sale June 18
Noble.....Quarterly Meeting May 23
New York Quartz, El Dorado county.....Adv. May 15—Sale May 25

Ophir of the Colorado, El Dorado C., $2..Adv. June 18—Sale July 2*
Ophir, El Dorado Canon, 15 cents.....Ad. June 8—Sale June 20*
Oxford Beta, Silver Hill, 50 cents.....Sale June 29*
Ophir of Colorado No. 1, Colorado.....Sale June 11*
Occidental, Soledad, 30 cents.....Sale June 15
Omega Gold Hill, Virginia, $25.....Sale June 4
Owens River, Inyo, $18.50.....Sale May 25
Overman, $30.....Levied April 16—Gold Hill
Ontario, Reese River, $1, $2 and $3.....Sale May 25
Original Croesus, Sierra, $1.....Sale June 20
Original Croesus, Sierra, $3.....Sale June 20
Old Hickory, Amador, Reese River, $1.....Sale June 10
Oceola.....Sale June 3—Virginia
Owens River.....Meeting, May 20
Otate.....Annual Meeting May 21
Oceola, Summit, 25 cents.....Sale June 10
Oceola, Summit, 25 cents.....Sale June 3
Ophir of the Colorado, Arizona, $2. Advertised June 15—Sale July 2*
Olive City, Weaver.....Sale June 13
Oxford Beta, Esmeralda, 50 cents.....Adv. May 16—Sale June 22

Point Arena Petroleum, Mendocino county....An. Meeting June 25*
Palmyra Consolidated, Palmyra.....Sale June 13*
Prima Donna, Devil's Gate District.....Sale June 15*
Palma, Ures district.....Sale May 30*
Pena, Lower California.....Meeting June 8—Sale May 30*
Pontiac, Reese River, 20 cents.....Sale May 25*
Pride of Nevada, Reese River.....Sale May 18*
Pearson, Lander county, 25 cents.....Levied March 30*
Peacock, Reese River, 25 cents,.....Sale June 22*
Progress, Reese River, $1.....Sale June 18
Pride of Nevada, Reese River, 25 cents.....Sale June 14
Pacific Paint M. & M., $2.....Sale May 21
Porter, Virginia, $5 and $5.....Sale May 30
Paget, El Dorado county, 50 cents.....Sale June 15
Pactolus, Devil's Gate, 50 cents.....Sale June 4
Peninsular, San Antonio.....Sale May 24
Penole, Clayton, 50 cents.....Sale May 25
Peruvian, Devil's Gate, 50 cents.....Sale June 15
Progress, Reese River, $1.....Adv. June 4—Sale June 18
Peytona, Virginia, $2.....Adv. June 17—Sale June 30
Patrocinia & Dolores, Chihuahua, $6....Adv. May 19—Sale June 12

Queen of Antilles Cons, Lander, 25c.....Levied March 30*
Queen of the Mountain, Big Creek, 25 cents.....Sale June 15

Refugio, Chihuahua.....Adv. May 21—Sale June 21*
Rose Linda M. & M. Co., Amador co., 50c.....Adv June 1*
Royal Eagle & Cliff, Gold Hill District.....Sale June 15*
Rubicon 1, 2, 3 and 4, Keys district...Adv. May 23—Sale June 17*
Rubicon No. 2, Keys.....Sale June 7*
Rubicon, No. 3, Keys, 10 cents.....Sale June 14*
Rubicon. No. 4, Keys, 10 cents.....Sale June 14*
Rothschild, Inyo.....Sale May 23
Real del Monto, Esmeralda, $20.....Sale May 27
Revenue, Reese River, $1.....Sale June 18
Rockwell, Ravenswood, 50 cents.....Adv. May 17—Sale June 4
Red Jacket, Reese River.....Sale May 31
Rose, Humboldt, $1.....Sale June 15
Realto, Alamos, Mexico, $1.....Sale May 28
Rhode Island, Keys.....Annual Meeting, May 21
Rhode Island, Keys, 10 cents.....Sale July 12
Ruba, R. R., 25 cents.....Levied March 31
Rosario & Carman, $2, $2, & $1 20.....Sale May 23
Rancharia, Quartz.....Meeting, June 13
Regnina, Inyo, 15 cents.....Sale June 17
Red Cap, Amador, 50 cents.....Adv. June 15—Sale July 11
Relief, 10 cents.....Levied May 19

Summit Pass, Tuolumne county.....Annual Meeting June 14*
Segregated Crown Point, Gold Hill, $26.....Sale June 25*
Storm Cloud, Reese River.....Annual Meeting May 30*
Scottie.....Sale May 31*
Scorpion, Virginia district.....Sale May 28*
Scottish Chief, Reese River, 10 cents.....Sale May 25*
Samantha, Reese River, 25 cents.....Sale May 25*
Saxon, Calaveras county.....Sale May 21—Copperopolis*
Senoma Ledge, Reese River.....Sale May 23*
Silver Star, Virginia dist, 25 cents.....Adv. May 21—Sale June 8*
Smith & Martin, Reese River.....Sale June 13*
Salt Spring Valley, S. S. Valley, 10 cents..Sale June 1—Jenny Lind
Stonewall Cons., Last Chance Hill, $1.....Sale June 15
Santa Rita, Inyo, 25 cents.....Sale May 30
Salmas.....Sale May 31
Standard, Reese River, 50 cents.....Sale June 8
Santa Teresa, Mexico, $2.....Sale June 3
Surprise, Ma iposa.....Sale May 25
Sacramento & M redith, Cedar Hill, $2.50.....Sale June 8
Sickles Colorado Prospecting, $50.....Levied April 16
Spanish.....Sale June 1—Virginia
Sides.....Sale May 20—Virginia
Santa Rosa, Virginia, $1.....Sale May 25
Sheba, Star, $5.....Sale May 23
Sutro, $1.....Levied April 30—Virginia

Sixty Ninth.....Sale May 21—Nebraska
San Francisco, Gold Hill, $3.....Sale June 28
Star, Big Creek.....Sale May 24
Smith Central, Big Creek.....Sale May 23
San Marcial, Sonora, Mexico, $1.50.....Sale June 22
Sabur, Blue Mountain, 20 cents.....Sale June 15
San Carlos.....Quarterly Meeting June 8
San Jose de Ventanas, San Dennas, $5.....Sale June 17
Siskiyou, Humbug Creek, 50 cents.....Sale May 24
Stanislaus, Calaveras, 50c.....Sale May 28
Slate Mountain, Slate Mountain, 25c.....Sale June 25
Steam C R, 25c.....Sale June 28
Santa Rosa, Virginia, $1.....Sale June 6
South Crown Point, $2 50.....Sale June 18
Shell, Alpine.....Sale June 15
Silver Circle, R R, 25c.....Sale June 25
Salvatierra, La Paz.....Sale June 15
Soledad, Soledad.....Annual Meeting June 13
Santa Cruz, San Antonio, $2 50.....Sale June 28
St George, Storey, Co, $1.....Sale June 20
Star of Nevada, Lander Co, 50c & 50.....Sale May 21
Santa Rosa, Inyo, 10c.....Sale June 20
South Eclipse, Ross, 10c.....Sale June 20
Santa Rita, Inyo 50c.....Sale June 20
Sonoma Co, R R, 25c.....Levied March 31
San Fran, Gold Hill, $1.....Sale June 4
San Fran, Gold Hill, $1.....Sale June 13
San Fran, Gila, Mojave, 5c.....Sale May 23
Soledad, Hill, Soledad, $5.....Adv. May 19—Sale June 8
San Carlos, Inyo, $1 50.....Sale June 8
Simpson & Bosselle, Carson Valley.....Sale May 25
Simp on & Bosselle, Carson Valley.....Sale May 21
Silver Age, Amador, 60c.....Sale June 9
Siempre Viveia, Zarigoza Mex, $1.....Sale June 20
Superior, Great Mogul, 25c, 10c, & 25c.....Sale May 21
Sirene, West Pt, 50c.....Sale June 29
Sirene, West Pt, 50c.....Sale May 21
Sisters, Augusta, 15 cents.....Adv. June 25—Sale July 25*
San Francisco, Gold Hill and Virginia, $3..Adv. June 8—Sale June 28
Stearns, Reese River, 25 cents.....Adv. June 18
San Jose de Ventanas, San Dennas, $5.....Adv. June 5—Sale June 17
South Eclipse, Russ, 10 cents.....Adv. June 5—Sale June 20
Santa Rosa, Inyo, 40 cents.....Adv. June 5—Sale June 20
Scorpion, Virginia, 50 cents.....Adv. June 11—Sale June 29
Santa Rita, Inyo, 50 cents.....Adv. June 5—Sale June 20
Shonewall Cons, Last Chance Hill.....Adv. May 30—Sale June 15
Scott, Humboldt county, $1.50 and $1.....Adv. May 7—Sale June 8
Sawtelle, Mt. Hope.....Sale May 26
Sears, Reese River.....Sale May 26
Starlight, Humboldt county.....Sale June 22
Sierra.....Sale June 13
Santa Rosa de Ures, Ures, $1.....Adv. June 17—Sale July 1
Sunset, Amador, 50 cents.....Adv. June 15—Sale July 11
San Simon, San Luis Obispo county, 50c..Adv. June 15—Sale June 30
Shoshone, Lander county.....Annual Meeting June 8
Sierra Nevada, Virginia, $10.....Adv. June 18—Sale June 30
Sonoma, Alpine, 15 cents.....Adv. June 11—Sale June 25
Sonoma County, Cloverdale, 20 cents.....Adv. June 21—Sale July 9
Santiago.....Quarterly Meeting May 21
San Carlos.....Annual Meeting June 8

Table Mountain, Calaveras county.....Annual Meeting June 13*
Tornado, Colorado, 50c and 50c.....Sale June 13*
Tuolumne, San Francisco District.....Adv. June 11—Sale June 29*
Tellurium, Amador county, $1.....Adv. May 21—Sale June 4*
Tehama, Reese River, 25 cents.....Sale May 25*
Table Mountain, Calaveras county.....Sale June 1*
Tulare, Inyo, 25 cents.....Sale May 28
Tuscarora, Reese River, 50 cents.....Sale May 24
Troy, Reese River, $1.....Sale May 26
Tennessee, Echo, 50 cents.....Sale June 18
Teutonia, Gold Hill, 50 cents.....Sale May 25
Teutonia, Gold Hill, $1.....Sale June 4
Tecolotti, San Dimas, $1.....Sale June 14
Tuolumne Mountain, Tuolumne, 50 cents.....Sale May 21
Tajo.....Qrtly Meetg June 6
Tesoro.....Qrtly Meetg June 6
Tesoro Gold Mining Co, R R.....Sale June 10
Techatticup, Colorado, 40 c.....Sale June 18
Techatticup, Colorado.....Annual Meeting June 1
Tranquillon, Fresno Co, 50c.....Sale May 28
Tecolote, San Dimas, Mex, $1.....Sale June 14
Tolcnader, Hamilton, 25c.....Sale June 21
Triunfo, San Antonio, 50 cents.....Sale June 17
Triunfo, San Antonio, $1.....Adv. May 14—Sale June 15
Tallulah, Sierra.....Special Meeting June 6
Tulare, Inyo, 40 cents.....Adv. June 16—Sale June 27

United States, Lander county, 3c and 5c..Adv. May 21—Sale June 20*
Union No. 2, Reese River, $1.....Sale June 4
United States, Virginia.....Sale May 25
Uncle Abe, Inyo, 50 cents.....Sale June 7
United Cosmopolitan, French Corral, 25c.....Sale June 7
Utah, Esmeralda.....Annual Meeting June 6
U S Tunnel, R R, $1.....Sale May 25
Ulah, Esmeralda.....Annual Meeting June 6
Upper Lisle, Inyo.....Adv. May 17—Sale June 16

Valparaiso, Tuolumne, 4 assts, $3.....Sale June 15
Vivion, B S Springs, $1 25.....Sale June 6
Victor Hugo, Gold Hill, $2.....Sale June 30
Veatch, Clifton, N. T., $1 and $2.....Adv. May 6—Sale June 6

Wilson, Echo, $1.....Adv. May 21—Sale July 2*
Whitton, Silver Mountain, 50 cents.....Adv. May 21—Sale June 9*
Wm. Mitchel, Silver Mountain.....Sale June 15*
Wide West, Calaveras county.....Stockholders' Meeting May 31*
Wall Street, Reese River, 50 cents.....Sale June 18*
Waipi, San Francisco District.....Sale June 11*
West End, Slate Mountain, 50 cents.....Sale June 20
White & Murphy, Virginia, $7.50.....Sale June 14
Wood Chance, Flowery, 37½ cents.....Sale June 13
Whitman, Indian Springs, $10.....Sale June 1
White Cloud, Virginia, $1.....Sale June 22
Widow Cons., Summit, $1.....Sale June 3
Whitlatch, R R, $5.....Sale June 24
Wellington, Santa Catalina, 25c.....Sale June 21
Wiesnain, Virginia, $2.....Sale June 1
Washington, Reese River, 50 cents.....Adv. June 18—Sale July 2
Washington, V. & G. D. Cons., Choloin, 25c..Adv. June 9—Sale June 19
Willow Cons.....Meeting June 19

Yellow Monster, Inyo, 25 cents.....Adv. June 5—Sale June 20
Yankee Blade, Reese River, $2.....Sale June 20
Yosemite, Reese River, 25 cents.....Sale June 4
Young Harmon, El Dorado.....Sale May 25
Yosemite, Nevada Fino, $3.....Levied Feb 9
York River, R R.....Sale May 30
Yellow Monster, Inyo, 20c.....Sale June 20

Zenith, Mountain Ranch, 50 cents.....Sale June 18

[The mining community begin to appreciate our reasonable rates of advertising, and are turning their patronage to the journal most properly entitled to receive it. The advantage to shareholders of having all mining notices concentrated in one mining journal, is obvious to all, and our terms have been established with a view to effect such a consolidation; and most companies having an object for publishing in any other particular paper, can consequently afford to have their notices appear in our journal also.—Eds. Press.]

The First Bullion from Alpine.—The Markleeville *Chronicle* of May 13th says: Mr. Markleeville has shown us a ring, weighing one ounce, manufactured from silver taken from the ledge of the Galena Company. This is the first bullion from the Alpine District.

San Francisco Stock and Exchange Board.—Prices Bid and Asked.

				Saturday.		Monday.		Tuesday.		Wednesday.		Thursday.		Friday.	
WASHOE STOCKS.	FEET.	SHARES.	VAL.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.
Ophir	1,400	16,800	300	1,150	1,200	1,150	1,200	1,175	1,200	1,175	1,250	1,180	1,200	1,175	—
Gould & Curry	1,200	4,800	300	3,875	3,900	3,880	4,000	3,900	3,900	3,810	—	3,875	4,000	—	4,000
Savage	800	800	2,000	1,900	2,050	1,880	1,850	1,900	1,900	1,825	1,900	1,850	1,900	1,875	—
Chollar	1,400	5,600	300	570	585	525	550	540	565	535	550	540	550	650	675
Potosi	1,000	2,800	300	930	975	975	1,000	900	975	750	—	750	975	650	900
Hale & Norcross	400	800	500	600	700	—	—	—	—	475	610	—	601	—	600
Sierra Nevada	3,000	3,000	500	50	65	52½	60	46	60	46	60	—	80	55	57
Dancy	2,000	800	60	65	70	60	75	80	90	70	75	65	75	—	70
Burning Moscow	4,000	4,000	500	78	78	70	72½	70	74	62½	75	55	56	56	57
North Potosi	2,000	2,000	250	81	82	81½	84	85	89	85	90	78	80	78	79
Charles Cany	1,800	1,800	30	—	—	—	—	—	—	—	—	—	—	—	—
Iowa	1,200	1,200	1,000	—	—	—	30	10	30	—	—	—	—	—	—
El Dorado	1,600	1,600	500	26½	26½	—	50	—	—	—	—	—	50	—	35
Norton	1,600	1,600	50	—	—	6	—	—	8	—	—	—	5	—	4
Barnsdale	2,800	2,800	500	9	10	—	—	—	10	—	10	—	8	—	8
Adriatic	2,700	2,700	100	9	9¾	—	—	—	10	—	—	—	8	—	—
Pride of the West	1,400	1,400	100	17½	20	18	20	17	20	18	20	19	20	16	19
Imperial	184	4,000	500	155	157½	156	170	155	—	160	175	160	170	165	175
Crown Point	600	1,200	100	—	950	—	—	—	—	—	950	—	—	—	—
Manhattan	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Seneca	—	—	—	21	22	20	21	26	29	30½	31	25	30	27	24
Mt. Davidson Imp't.	1,000	1,000	200	—	2	1¾	4	1¾	2½	1⅞	2¼	—	2	—	—
Caledonia Tunnel	—	—	—	—	20	—	18	—	18	8	18	—	18	12	16
Bajazet & G. Era	1,000	4,000	300	23	25	21½	30	25	30	—	—	24	26	25	26
Cedar Hill Tunnel	—	1,000	100	—	—	—	—	—	—	—	—	—	1	—	—
Gold Hill Qu'tz Mill	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ESMERALDA.															
Wide West	1,400	1,400	2,000	24	25	21	28	26	26	21	25	23	23	20	21½
Antelope	1,200	1,200	500	100	180	145	180	—	—	150	190	—	200	146	170
Esmeralda	1,000	1,000	1,000	5	—	—	—	—	40	—	40	—	—	—	—
Real del Monte	1,400	1,400	400	51	51	53½	55	52½	55	47½	48	48	49	48¼	49
Utah	1,000	1,000	250	—	—	—	—	20	32½	25	30	20	22	—	—
Silver Hill	3,000	3,000	500	5	10	6	10	—	—	—	—	—	—	—	—
Nevada	600	1,200	250	—	—	—	—	—	—	—	—	—	—	—	—
Falls of Clyde	6,000	6,000	100	—	—	—	1	—	—	—	—	—	—	—	—
Bamboo	600	600	500	—	25	—	—	—	—	—	—	—	—	—	—
Crockett	—	—	—	8	11	8	—	—	—	—	—	—	—	—	—
Federal Hope	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Jenny Lind	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
COSO.															
Josephine	2,600	4,800	2,500	1	4	—	—	—	—	—	—	1	5	—	—
Willow Springs	2,700	2,700	100	—	—	—	4	—	—	—	1½	—	—	—	—
Coso	2,600	3,600	600	2½	—	—	—	—	8	—	—	—	10	—	10
COPPER.															
Napoleon	2,700	2,700	600	60	90	—	—	—	90	—	90	—	80	—	85
Josephino	—	—	—	—	—	—	—	—	—	—	—	5	6	4	—
CALIFORNIA.															
Laurel Hill	—	—	—	65c	80c	25c	1	75c	1	50c	1	—	1	—	—
Rhodes Diggings	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fellowes	2,500	2,500	100	—	—	—	—	—	—	—	—	—	—	—	—
Maxwell	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rock River	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Eureka	—	—	75	—	—	—	—	—	—	—	—	—	—	—	—
HUMBOLDT STOCKS.															
De Soto	1,980	1,980	100	15	35	—	35	—	30	—	30	—	—	—	—
Great Basin	—	—	—	—	—	—	—	—	—	20	—	—	—	—	—

Vein Mining is a very complicated business; one in which it is easier to throw away money, perhaps, than in any other immense excavations in solid rock and heavy timbering, requiring judgment and skill—not always at command—expensive machinery to raise and crush or smelt the ore, pump out the water and raise and lower the men, and finally, thorough acquaintance with the science of chemistry and metallurgy in order to separate the gold from the ores, are requisite to success. And all this, even when the vein is rich, well developed, even and continuous. Very few metalliferous veins are equally rich for any considerable distance, either lengthwise or up and down; neither are surface indications always to be trusted. The consequence of all which is, a double quadruple uncertainty. On Lake Superior, a region supposed to be nearly pure copper, there have been hundreds of companies formed, and at least a hundred mines opened and worked, but it is a fact that for the first ten years of active mining there, but two of the mines paid a cent of dividend to the stockholders. Even in England, it is the opinion of the Keeper of Mining Records, Mr. Hunt, that excepting iron, mining for the metallic minerals is not on the whole, remunerative.

How impolitic and absurd then the proposition to tax the gross receipts of mines of this description, when in the process of development. The natural and unavoidable risks encountered, are quite sufficient to deter all but the most venturesome from risking their capital in such undertakings. The largest net benefit which could be derived by the government from such a course would be but trifling; while it would endanger a class of industry, which is of the most vital importance, not only to the government, but to the entire commercial and mechanical interests of the country. Its success will be the death-knell to all progressive mining on the Pacific Coast.

Short of Powder.—The Reese River *Reveille* says that powder is very scarce in that locality at present, and none but a favored few can obtain it at all. This scarcity comes heavy upon the miner. Many works have been compelled to cease operations altogether in consequence of inability to obtain powder for blasting purposes.

An Experimental Roasting Furnace is in process of erection at Austin, N. T., by the Isabella Company, for the roasting of ores. One of the objects of the company is to roast ores for experimental purposes, and for assaying them preparatory to their being sent to the mills for working.

City Stock Reports.

Sales of Mining Shares

For the week previous to Saturday, April 23, 1864.

By the San Francisco Stock and Exchange Board, Pacific Board of Brokers, Stock Exchange and the City Stock Exchange Board of Brokers

NAMES OF COMPANIES.	SHS. SOLD.	LOWEST.	HIGHEST.	CLOSING.	AMT SOLD.
Chollar	1016	526	700	650	99099
Burning Moscow	471	53	82½	60	21937½
Pride of the West	70	20	19	20	670
Wide West	155	20	25	22	1020
Seneca	708	19	28	28	4568
Uncle Sam	4	700	725	700	1062
Lady Bryan	1239	24	39	35½	27068
Golden Age & Empire	663	30	40	35	164959
North Potosi	385	78	95	78	26770
Adriatic	75	8	10	8	1459
Baltimore American	130	47½	52	47½	21695
North American	420	110	170	110	24160
Baltic	93	65	90	67½	6050
Potosi	32	900	975	900	9780
Real del Monte	300	47	67	52	8797
Bajazetto	34	25	20	25	750
Blue Ledge	179	17	10	17	18035
Caledonia Tunnel	30	18	20	18	740
Buckeye	317	9¼	13	11½	5718
Crockett	119	7	10	10	1289
Harmon	60	17	23	17	1462
Coso	23	3	4	3	81
Baltic, H	40	3	4	3	145
Gould & Curry	58	3000	4000	3050	65600
Savage	3	1800	1900	1800	3450
Ophir	54	1160	1.00	1160	5760
Yellow Jacket	4	8 0	800	800	3200
Melones	53	15	17	17	470
Sweet Vengeance	10	10	10	10	100
Michigan, G. H	10	50	50	50	500
Spanish, No: 2	10	15	15	15	150
Melones Sink	45	7	8	7	393
Green	25	4	4	4	100
Nevada, J. G.	10	78	78	78	780
Dancy	54	80	80	80	4320
Antelope	31	146	180	147	3080
Utah	20	20	30	20	400
Laurel Hill	20	62c	—	—	12
Washington	30	15	15	15	450
Defiance	30	6	7	7	177
Mountain Nu 1	30	4	5	4	135
Sacramento & Meredith	87	50	50	50	435
Mt. Davidson	150	1¾	1¾	1¾	265
Central American	100	10	10	10	10 0
Bullion	20	70	75	71	1435
Santa Rosa	106	2	4	2	2060
Imperial	10	165	165	165	1650
Kohler Brothers	10	12	12	12	120
Index, (cop)	20	12	12	12	240
Good Return	10	3	4	3	35
Crown Point Ravine	25	4	4	4	100
El Dorado	27	15	26	15	630
Sierra Valley	10	10	10	10	100
Crown Leaf	10	4	5	4	430
Taxbridge	6	3	3	3	18
Providence	10	15	15	15	150
Zenith	10	1	1	1	10
Union, R. D	100	75c	—	—	75
Gen. Grant	70	21	24	22	1469
Lucerno	20	5	6	5	100
Peytona	10	20	20	20	200
Geo. Washington	10	10	10	10	100
Sierra Nevada	10	55	67	57	561
Sales for the week	.....	.....	.....	.....	540,348½

Gold in New York.

Friday, May 13	171.
Saturday May 14	173.
Tuesday May 17	176@178.
Wednesday, May 18	181½.

Legal Tender Notes.

San Francisco, Friday, May 20.....59 per cent.

Mechanical Department.

HOME INDUSTRY.

The mechanical progress and wealth of this city is, like its physical growth, wonderful and unparallelled. Our entire history, indeed, on the Pacific, has been and is still, in many respects, a wondrous romance, from which even the stern realities of mechanical art, usually of slow growth in all countries, are not exempt. In fact, I doubt very much, whether there is anything amongst us, connected with industrial wealth and progress, which partakes more of the Aladdin-lamp school, than the foundries, and iron-works of this city. Perhaps, a glance at that romance as it occurred within my own experience may not be out of place at the present time.

In 1849, a year almost as remarkable in the history of America, as the year of Independence, for it is held to be little less creditable to extend dominion, than to acquire it, I was one of the first half dozen who built a wooden shanty on the scrubby sandhills of Happy Valley, somewhere, I think, in the neighborhood of Geary and O'Farrell streets, which then was a long way out of town. With people in those early days, having an eye to a good future location, the great perplexity was to determine with anything like certainty, the direction the city would take. In spite of the old axiom, that all newly established seaports must "follow deep water," the character of the sandhills seemed to forbid the possibility of extension towards the south, while the high rocky hills at the north, seemed equally to forbid it in that direction. Nevertheless, that a great and powerful city was to spring up here, calculated in the end to wield a wondrous influence on the destinies of the American people, none of us doubted for a moment, but what vast amount of wealth and time it would consume to build that city up on such an inhospitable location, and amidst such terrible difficulties none of us could determine. During this important discussion, especially important to us who wished to make a good future location, the first fire came sweeping the entire block from the Plaza to Montgomery street, in less time, almost, than it would take a man to run round the space it occupied.

This calamity, together with the unsettled question referred to, strongly influenced the fate of thousands of the old pioneers. "Here we are" they would say, unable to make a safe location, with the certainty of being burned out every month or so for years to come; "let us go to the mines." So like fools we went by hundreds every day to the mines. What a grand mistake that was. We ought to have remembered, that the energy which brought us to this city, would surmount all the difficulties we might meet with in making it worthy of us. If we could dare and overcome the dangers of the desert and the ocean, defy the snowy peaks of the Sierra, and death-dealing malaria of the Isthmus, surely all the pigmy difficulties in making San Francisco, what late had predetermined her to be, the Queen of the Pacific, must yield as fully and as speedily to the same great spirit of enterprise.

So it proved. Our places were filled with men of a more consistent mode of reasoning, who never for a moment lost sight of this great fact; but on the contrary, bent all their energies persistently to its accomplishment. In a few years tidings reached us at the mines, that a thing called the *Steam Paddy* was cutting down the sandhills as fast as Charley Backus would gobble down apple-dumplings—that the Bay was filled up for half a mile—that Montgomery street was no longer the boundary of the ocean, but between it and the shipping stood several imperial streets, which in architecture, wealth, and extent would do credit to any country in the world—that away out south for miles it was all the same—that the old bleak dreary wilderness of sand was gone for ever, having through the agency of the Steam Paddy, given way to magnificent streets, palatial residences, exquisite gardens, and huge manufactories of every kind. Marvellous idea, we exclaimed; can all this be true, in a period so short? What fools we were to leave. Why could not that Steam Paddy have come to work sooner? How rich we also should have been. Well the opportunity was given, but not improved. We ought to have been faithful to our first California love. She had already realized our dreams; risen like a meteor in the fullness of the heavens' night glory; cast off her voice and depravity; conquered physical impossibilities; become in truth, the Queen of the Pacific; but then she had done all this without our aid, and so we had no share in the magnitude of wealth she showered so copiously upon her more steadfast and consistent friends. Perhaps, so far, it served us right.

Now all this sounds like romance. It is so in the strictest sense, and yet we know it to be a patent and veritable fact. In a single decade, we see the work of a century accomplished. To-day, three years later, we find nothing necessary to her happiness or prosperity omitted or overlooked. Commerce and religion, literature and charity, education and mercy, benevolence and science, amusement and pleasure carried out respectively to perfection. If, however, we have occasion to be proud of her busy marts, her churches, libraries, schools, hospitals, asylums, theatres, etc., we have equal reason to be proud of her mechanical wealth and progress. To illustrate the last is our present purpose. Here, then, in the haunts of Vulcan, we desire our readers to abide with us for a time, for here, as elsewhere, they will find our great city fully equal to her destiny.

It has long been an admitted truth that there are no institutions in any country so full of interest and instruction as its foundries and iron-works; nothing, at all events, which so fully shows man's wonderful skill and ability, or his marvelous dominion over the elements. To feel that interest, or receive that instruction, it is not essential to possess a mechanical knowledge which will disclose at sight the particular object of his labor. It is the absolute dominion of man we then witness over the elements and matter, which is so grand to contemplate. It is immaterial whether he is casting a monster cannon, such as belongs to the Camanche, or cutting a small, delicate groove in a steam engine, we shall be equally astonished at the ease and security with which he performs the one, as at the ease and perfection with which he performs the other. In truth, each department in a first-class foundry is in itself a school of instruction to both young and old, yet unless directed to these institutions by business, none perhaps, in any country, are so much neglected or overlooked. In California this is especially true. As a mining community we are more indebted to and dependent upon the perfection of our foundries and iron-works for our material wealth, than any other branch of industrial art; and yet how few of our citizens know the number of each in our midst, or in fact anything about them. To me, it seems we have nothing we can boast of with so much propriety and justice as the character, extent and perfection of our foundries and iron-works in general.

As the most important, we shall commence with the iron foundries. Those whose history we give first have not been selected in a spirit of favoritism, but simply because from them we obtained earliest the information required. Of iron foundries, there are ten in our city, the larger proportion of which may be termed first-class.

THE PACIFIC FOUNDRY.

This establishment, like most of our principal foundries, is located on First street, Nos. 127 and 131. It was commenced originally by Mr. Hinckley in 1851, thus forming one of the old pioneer firms. The firm is now known as Goddard & Co. The works have been enlarged at different periods, especially last winter, and are now extensive and complete. The number of hands employed is about 150. They consume, on an average, *every month*, in the neighborhood of 200,000 lbs. of iron for casting, 42,000 lbs. of wrought iron, 55,000 lbs. of boiler iron. Steam coal, 45,000 lbs.; forge coal, 20,000 lbs.; foundry coal, for melting, 130,000 lbs.; lumber for flasks, patterns and frames for machinery, 10,000 feet per month. They have three cupolas, which they estimate as capable of melting twenty tons of iron at once, so that here, as in other city foundries, they would have no difficulty in casting cannon as large as those of the Monitor Camanche, they being twenty-one tons. Few of our citizens suspect our foundries capable of such productions. The largest casting hitherto made in these works is a huge wheel for the Bensley Water Company, ten feet in diameter, and weighing nine tons. It is a finished and superior piece of workmanship. I find the rate of coal for melting is lower than I anticipated, being only one ton of coal to four of iron. Of course the works embrace every department in the trade, and enjoy a high reputation in our community. L. H.

[To be continued in our next.]

A SINGULAR DISCOVERY has been made in the Isle of Man, where it has been ascertained that certain old guns long used as posts on the quay at Peel, were rifled, Government has ordered them to be transported to Woolwich, where they are to be preserved as the earliest specimens of rifled ordnance.

A NEW RAILROAD SCHEME has been projected in Washoe, and professors Blake and Scott have started out to make a preliminary examination of the country lying between the Lower Crossing of the Truckee and the mouth of the Scott & Perigord Tunnel, Star Mountain, Humboldt mines, with a view to ascertain the practicability of connecting the two points by means of a railroad. If the appearance of the country is satisfactory they will at once proceed to make a careful survey of the route. The distance between the tunnel and the Lower Crossing is about 100 miles—from this city to the Lower Crossing it is about 35 or 40 miles. The great drawback to the mining operations in the Humboldt region is the almost total absence of timber for the use of miners, either for the timbering of mines or building of mills and houses. This difficulty they propose to overcome or greatly ameliorate by the construction of a railroad to the Truckee, down which stream timber and lumber will be floated from the wooded slopes of the Sierra. The Scott & Perigord Tunnel is a tremendous undertaking. It is intended to pierce through Star Mountain, in which there are known to be many rich leads, and will be, when completed, two miles and 526 feet in length. The tunnel is to be of grand proportions, its width being 10 feet and its hight 8 feet in the clear. The tunnel has been commenced.

MAKING STEEL FROM IRON WITH GAS.—About 25 years ago, Mr. C. McIntosh, a manufacturing chemist of Glasgow, Scotland, made several tuns of cemented steel by submitting iron, at a dull-red heat, to the action of lighted gas, operating with from 100 to 150 lbs. at a time, the iron bars being two inches broad and quite thin. The cementation took from eighteen to twenty hours, and when the operation exceeded that time supercarburation took place. Thus by the sole action of lighting gas, without mixture of any foreign body, it is possible to obtain either steel or cast iron; it is only a question of time or temperature. To obtain steel there is no need to add ammonia previously in order to nitrogenize the iron. Steel and cast iron differ only in containing diverse proportions of the same elements, as pure white cast iron can be tempered and even forged like steel; witness the white cast iron of Lieges used for making screw plates.

LARGE ENGLISH PLANING MACHINE.—Messrs. Losh, Wilson & Bell, Walker Iron Works, Newcastle-on-Tyne, have lately had delivered at their works an improved planing machine, adapted to plane marine engine cylinders and other work, up to 20 feet long, 9 feet wide, and 8 feet high, and which is fitted with four tool boxes, viz.: two in the cross slide and one in the front of each standard, all self-acting; so that, when an article is placed upon the table, they can be planing three sides of it at the same time, if it is required. This machine weighs about thirty-five tuns, and was made by Messrs. Francis Berry & Sons, Calderdale Iron Works, Sowerby Bridge, Yorkshire.

MINERAL CLAIMS FOR SCHOOL PURPOSES.—The late Territorial legislature of Colorado passed an Act entitled, "An Act to create a Fund for the Benefit of Schools." The law provides that one claim, of one hundred feet in length, designated as No. 3, on every mineral lode that should thereafter be discovered, "should be set apart and held in perpetuity for the use and benefit of schools in the Territory, subject to the control of the Legislative Assembly." It makes it the duty of discoverers to leave said claims vacant, informing the Recorders of their whereabouts; of the latter to record the same, free of charge, and deliver the certificates of record to County Superintendents of Common Schools. It is the Superintendent's duty, in his turn, annually to report the number and situation of such claims to the Territorial Superintendent of Schools, who shall recommend to the Legislative Assembly such regulations for renting or working the same as he may deem proper.

PHENOMENA.—On Sunday evening, May 1st, says the Alpine *Chronicle*, a brilliant flash of lightning was observed in the east; which brought out in bold relief the mountains which skirt the Middle Fork of the Carson, followed by several shooting stars which coursed through the heavens in an easterly direction. Not a cloud was to be seen.

GOV. NYE has issued a proclamation initiatory of a State Government for Nevada. The election is called for the 1st of June.

A California Barrel Manufactory.—The only barrel and stave manufactory on the Pacific coast is in Santa Cruz county, about ten miles north from the Santa Cruz mission. This manufactory was established in 1855 or 1856, by Mr. A. Glassel. A late number of the Pajaro *Times* gives the following description of the establishment:—

The motive power is an engine of thirty horse power; the machinery in use consists of one circular saw, jointer and plainer, a surface planing machine and two headers.

The oak trees are selected, felled, and the bark stripped off, which is used for tanning. The logs, in proper lengths, are transported to the mill, where, by means of the circular saw, they are cut into slabs four inches, and then cut by means of another saw to the proper size for barrels and half barrels, and so taken to the steam house, where they are steamed for twenty-four hours, after which the cylinder saw gives to them the shape and necessary curve to form a stave. They are then planed on the outside, and jointed on a small saw that adds the bilge and bevil, and in this state are tied up in bundles of eighteen each, ready for use, and are now called shooks.

The heads are made of half-inch pine boards, planed on one side, and cut to the proper shape and size by revolving knives.

The capacity of the mill is 300 barrels per day, and 1,600 heads. The extra heads are purchased by the coopers in San Francisco. The barrels described are used exclusively by the sugar refineries there. The mill gives employment to twenty men, and the amount of capital invested is $20,000. There are also made at this mill, staves for syrup casks—of fir instead of oak—being stronger and tighter; the latter produced in this State will not make tight work.

In the immediate vicinity of the mill there is growing a sufficiency of timber to supply demands for the next three years, when by moving to other timber tracts, within easy distance, new and larger supplies can be obtained.

This is the only stave and barrel mill in the State, and this county is the only part of California where can be found the necessary timber and position so as to make the manufacture of barrels profitable. This county has also large quantities of hazel, which furnishes the hoops, as also does the small sprouts of the oak.

The main supply of barrel staves for this State, has been and is yet by importation from the Eastern States—the manufacture of them here being a new enterprise, and without doubt, time will soon make it a very important branch of the many manufacturing interests of this county.

Influence of Flowers.—During the raid of Quantrell in Kansas, and the sacking and ravaging of Lawrence, the gang came to the residence of George Ford, whose neat house was surrounded with flowers. The soldiers appealed to their leader to spare the place as, "it was too pretty to burn;" he assented, and the house was spared, almost the only building left. Mr Ford says now he shall cultivate flowers as long as he remembers the rebellion. The charms of a few flowers touched the hearts of men whom no misery or suffering, in the midst of which they were reveling, could reach, and saved from destruction the house referred to. Who does not love flowers, and who will not devote even a little space to them. They refine, they elevate.

More Taxes.—The rate of taxes for Placer county for the current year was fixed by the Board of Supervisors at $3.40 on each $100 of valuation of property; but the Legislature having passed the bill guaranteeing the interest on $1,500,000 of the bonds of the Central Pacific Railroad Company, an additional eight cents on the $100 must be levied, as well as five cents more for a State School tax. In all, the taxes in this county will be $3.53 on the $100. From being the lightest taxed county in the State, Placer will be the heaviest burthened in that respect. The harvest for the tax-gatherer is coming. —*Exchange.*

Good Advice.—If the body is tired, rest; if the brain is tired sleep. If the bowels are loose, lie down in a warm bed and remain there, and eat nothing until you are well. If an action of the bowels does not occur at the usual hour, eat not an atom till they do act, at least for thirty-six hours; meanwhile drink largely of cold water or hot teas, exercise in the open air to the extent of a gentle perspiration, and keep this up until things are righted; this one suggestion, if practiced, would save myriads of lives every year, both in the city and country. The best medicines in the world are warmth, abstinence and repose.—*Journal of Health.*

Patent Department.

Patent Extension Schemes.—Most extraordinary exertions are now being made, by interested parties, to secure extensions of several well-known patents, the most prominent of which are the famous India-rubber patents of Goodyear, the Woodworth planing machine, Sherwood's Janus-faced lock and Fitzgerald's fire-proof safe. The first-named, the most valuable patent probably in existence, has already been twice extended and will become public property some time next month, unless Congress intervenes in behalf of that now powerful and overgrown monopoly. Goodyear is dead, having amassed an immense fortune, and his heirs and assigns have since amassed other fortunes. The people have payed quite enough for this invention, and should now have the full benefit of it. California, so far as consumption is concerned, is perhaps more interested in the matter than any other State in the Union, as an immense amount of rubber goods are consumed by our miners. The defeat of the present extension scheme will relieve Californians of an immense tax, which they are now paying to a wealthy monopoly, which for twenty years has controlled the prices of this description of goods.

The three last of the above enumerated patents have also been each extended, and are now rightly the property of the public. The utility and value of patents, and the propriety of affording proper protection to inventors of all important improvements, is fully and freely recognized; but it is not in accordance with sound policy or the spirit of our excellent patent system, to hedge up the field of invention by perpetuating patent privileges beyond a reasonable length of time. Such a policy is one against which the people have a right to complain, and upon which Congress should most emphatically set its seal of disapprobation.

A New Amalgamator—*A California Invention.*—We have examined the drawings of an amalgamator of quite a novel character, for which preliminary steps have been taken to secure patents by Mr. O. H. Taylor, of this city, the inventor, the working of which we will endeavor to describe as well as we can without an illustration.

The inventor claims the application of forcing the pulp through pipes into quicksilver, with the aid of steam direct, or its equivalent, compressed air, or by a pressure of steam or air on the surface of the pulp confined in tight tanks, as follows:—

In the last named manner, by the use of two covered tanks, placed near each other, and quicksilver bowls or receptacles, two in number, one for each tank, placed outside of the tanks, and connected with them in such a manner that when the steam or air is admitted to the tank that is filled and causes a pressure on its surface, it will cause the pulp to pass out of the full tank into the empty one through the quicksilver vessel by means of pipe connections, in small streams, so as to insure the contact of all the particles with the quicksilver. The pressure in the tank just discharged is then shut off or condensed, and applied to the opposite tank and the operation repeated as many times as may be found necessary. The pulp can be tested while the operation is being performed. In the process first referred to, by the use of steam direct through a pipe along with the pulp, the direction of the pulp is changed by a jet of steam, from one tank to the other through the quicksilver, by a simple apparatus placed above the tanks and connected with the steam generator.—Simple agitators are to be used in the tanks, if found necessary, to prevent the pulp from settling while being passed from one tank to the other.

It is estimated by the inventor that with the use of this application, ores can be amalgamated in a very short space of time compared with the present processes, especially gold ores that require no chemicals. He estimates that he can amalgamate a ton of gold ore, in suitable sized tanks, in less than one hour.

Debt of Sonoma County.—The outstanding indebtedness of Sonoma county is $34,000.

A New Magnetic Engine—*A California Invention.*—We had the pleasure, a few days since, to witness a small magnetic engine in operation—the invention of an ingenious machinist of this city. This engine involves in its construction many new and important features, by which many, if not all the hindrances heretofore met with in the way of constructing and running magnetic engines, have been overcome. Its inventor has had much experience in this direction, and feels the utmost confidence that he has now overcome all difficulties, and that he will soon be able to put in operation a machine of sufficient power to fully prove the value of electricity as a motive power. Letters patent will be taken out through the Mining and Scientific Press Patent Agency, for the United States and all the leading European countries. We shall have more to say upon this machine at an early day. We have much confidence in the belief that it is a valuable invention.

Hay-loading Machine.—Mr. William H. Bertley, of Westford, N. Y., has recently taken out a patent for an apparatus which may be attached to and carried along by the side of a hay wagon, and so contrived as that by driving the wagon along the side of a windrow of hay, the machine will gather it up, and by means of a revolving apron, carry it to the top of the load, where it is received by the loader and properly distributed, as when forked up. The machine rakes after itself, doing its work quite as clean and thoroughly as it can be done by a man to pitch it up and a boy to rake after, and much more expeditiously. The machine is worked by gearing attached to the wheels, upon which it is supported and moved forward. By the use of this self-loading arrangement, the farmer who trims the load can ride upon the same, and needs no other assistance than a small boy to drive, and the fatiguing operation of hay-loading, on a hot summer's day, is greatly lessened. The machine is highly spoken of. When not needed in the field it may be advantageously employed in the barn, as an elevator, to raise straw or hay to the scaffolds or mow above the floor.

Business in the Patent Office.—It appears from a report recently communicated by the Commissioner of Patents to Congress, that more business was transacted during 1863 than during any year in the history of the Government, excepting 1859 and 1860. The report states that 6,014 applications were made during the year, 4,170 patents granted, and 787 caveats filed. Considering the disturbed condition of the country, and the fact that no applications whatever could have come from a large portion of our territory during that year, this is certainly a most extraordinary exhibit of the inventive skill and industry of our people.

Type-setting Machine.—The type-setting machine recently invented by Mr. Felt, of Boston, according to the *Transcript* of that city, promises to prove a complete success. A company has been chartered to manufacture and operate the machinery. Several prominent gentlemen in the printing interest testified to the value of the invention, and the necessity of pushing it forward promptly. It has been testified by a practical printer, before the Committee on Manufactures of the Massachusetts Legislature, that this machine will "justify" type "more perfectly and uniformly than can be done by the ordinary hand process."

The Mountain Reservoirs of the Tuolumne County Water Company are now all filled. They are estimated to hold a four month's supply; and will not be tapped until the water fails in the Stanislaus, which will not probably happen until the last of June. The miners have thus a good prospect of steady employment until November, when another supply of water may be expected.

Great Inducements.—A New York stock-dealing firm advertises that they buy and sell shares of $100, $50, $25 and $10 in the Nevada, Colorado and Idaho silver mines, and that shareholders will receive their dividends in gold!

Artificial Limbs are now made of vulcanized India-rubber. As they are hollow, all the machinery is contained within, and is not liable to be deranged or broken. They are, it is said, much more readily made, and lighter than those made of wood or iron.

Mining and Scientific Press.

W. B. EWER.....SENIOR EDITOR.

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San Francisco:

Saturday Morning, May 21, 1864.

TWENTY-FOUR PAGES.—Next week we shall add four pages more to our paper, in order to give a full if not increased amount of reading matter, and accommodate our rapidly increasing advertising patronage. As our facilities increase we are bound to continue in improving the MINING AND SCIENTIFIC PRESS.

ANOTHER SHOCK.—Earthquakes in San Francisco seem to be increasing in both strength and frequency. Five or six shocks were reported on Friday P. M.—one, about six o'clock, being the most shocking affair of the season.

SECOND SHIPMENT.—The Golden Age & Empire Company last evening received from their works in Esmeralda, their second shipment of bullion—thirteen bars—amounting to $35,552 10.

THE ARTESIAN WELLS about San Jose, appear to be sensibly affected by the drouth of the past season, and fears are entertained least they may cease their flow altogether, before another winter sets in.

THANKS.—We are under obligations to Senator CONNESS, and to Congressmen SHANNON, HIGBY and COLE, for various public documents, for which they will please accept many thanks.

THE COPPER CONCENTRATING WORKS, in Salt Spring Valley, Calaveras County are said to be a perfect success. The principle is entirely different from any other employed for such a purpose, and has already been described in our columns.

FRUIT DESTROYED.—The Yreka *Journal* says that a severe frost, on the 6th instant, caused a wholesale destruction of fruit in that neighborhood. Apricots and peaches as large as cherries were frozen quite through.

TIN ORE.—Mr. Boyd of Calaveras county, went to Mexico some time since on a prospecting trip, and writes to some friends in Stockton from the interior of the State of Durango, that he has discovered an exceedingly rich tin mine in that State. He stated that sixty-nine pounds of ore yielded thirty-three and a half pounds of pure tin.

DEETKEN & CO.'S METALLURGICAL WORKS.—We paid a visit to this establishment a short time since. They are located on the San Bruno road, but have an office at 315 Montgomery street, in this city. This company has recently been incorporated, under the general incorporation laws of the State. They are prepared to undertake the reduction of ores of gold and silver, of every description, from several tons down to a few pounds; also to make assays. The establishment is fitted up with one large battery of four heavy stamps for heavy work, and several smaller ones for reducing a few pounds of ore for practical assays. The establishment is amply provided with Wheeler's and Varney's pans, large and small, also with an efficient arastra. The works are driven by a steam engine. This is the only company in the city who are prepared to conduct the chlorination process for the extraction of gold from auriferous sulphurets—the most thorough manner in which that difficult mineral can be treated. The process of calcination and chlorination was described in the MINING AND SCIENTIFIC PRESS for July 27th, 1863.

MINING SHARE MARKET.

The past has been the dullest stock week of the season. The total transactions of the boards, in mining stocks, have dropped to the low figure of $540,348 50.

Ophir has fully maintained its advance of last week, but with small business. Three feet were sold on Monday at from $1,175 to 1,190. A buyer at $1,200 was found on Thursday, but it finally closed at 1.160. The appearance of the mine is said to be improving.

Gould & Curry has still further improved. Closing last week, with holders at $3,900, a buyer at 4,000 was found on Monday. It subsequently dropped to 3,900, but again rallied and closed firm at 3,950. The improvements on this Company's mill are progressing rapidly, which, when completed, will materially augment the receipts of bullion from the mine.

Savage has still further receded, dropping from $2,050 to $1,800 at which latter figure we notice but a single transaction of three feet—the entire business of the week in this stock. Holders are now firm at $2,000.

Yellow Jacket still continues quiet. A single sale of four feet, at $800 per foot, comprises the business of the week.

Potosi has been but little dealt in. It commanded $975 on Monday, but dropped to $900 on Tuesday, since which no sales are noted. Holders were asking $1,000 yesterday. It is now pretty well ascertained that this company has fully 500 feet of good ground within their lines.

Chollar has again become quite active: 506 feet have changed hands during the past week. Up to Thursday afternoon it ranged from $520 to $560, when suddenly it went up to $600. Yesterday it touched $700, but closed at $650.

Burning Moscow has been more active but at a material decline—gradually receding from $76, its lowest figure of last week, to $53 cash, and $60 buyer 30 days before yesterday's board.

Pride of the West has been comparatively quiet at the closing figures of last week—$20.

Seneca has manifested considerable activity. Closing on Saturday last at $22, it has steadily advanced to $28 before yesterday's board. Upwards of 700 shares have changed hands.

El Dorado, which closed last week at the low figure of $26½, was not again heard from till yesterday when it still further dropped to $15, with a single transaction.

Uncle Sam sold at $720 on Monday, and found a seller yesterday at $700.

Lady Bryan has again become quite active, but at declining rates. Opening at $37, it dropped to $26 on Wednesday, but subsequently rallied, and closed at $35½. The present appearance of the mine is not very flattering.

North Potosi has sold at $78 to $94, closing at the former figure. Adriatic is quoted at $8; Baltimore American closed at $47 50: Bajazette is quoted at $26; Blue Ledge $17 50 to 20; Caledonia Tunnel dull at $18.

Baltic has met with a material decline from its last week's advance, and is now quoted at $65 to $67 50.

North American has still further declined. It closed last week at about $150, from which figure it has gradually receded to $110.

Buckeye maintains its last figures and is quoted at $12; Crockett, $10; Harmon has sold for $22 to $17, with but little request; Melones, $15; Central America, $10.

Golden Age and Empire has been quite active at prices fluctuating from $30 to $40, about 700 feet having changed hands.

Yellow Jacket has been heard from at $800; Daney at $80; Nevada J. G. at $78 50; Sacramento & Meredith at $50; Bullion at $75; Gen Grant, O. R., at $24; Sierra Nevada at $57 50.

Real del Monte still remains comparatively quiet. It has ranged during the week from $47½ to 57½, closing at 52. Another handsome shipment from this mine is elsewhere noticed. We quote Antelope at $180; Wide West from $22 @ 24.

A PONY EXPRESS LINE has been established to run between Star City, Humboldt, and the Boise mines, *via* Jordan creek. The road is well stocked, and the through trip will be made in forty-eight hours. Letters directed to Boise, *via* Star City, Humboldt, will be taken through by this line, Mr. A. B. Cutter and W. J. Westright, two enterprising and energetic gentlemen, are the proprietors.

W. A. HOLCOMB has been elected Recorder of Buena Vista Mining District, Humboldt county.

WASHOE STOCK MARKET.

Review of the Week Ending May 16th, 1864.

The apathy heretofore noticed in the Virginia Stock Market, still continues to prevail. The sales are light, and there appears to be but little disposition for business among either buyers or sellers. We give below the transactions which have transpired since our last report.

Allen has been heard from at $22, one sale of eight shares only being reported.

King Solomau has met with but a single purchaser who took 10 shares at $1¼.

Consolidated Brotherhood, 28 shares sold at 75 cents; Pony Express, 10 at $4; Golden Swan, 10 at $3; Combined Effort, 7 at $3½; Atlantic 10 at 3½; Rock Island, 1 at $20; Degroot, 15 at 50 cents; White & Saunders, 10 at $3; Milton, 1 at $30; New Oregon, 10 at $10; Napoleon, 20 at $6½; Effingham, 10 at 75 cents.

Harold & Argo has been less enquired after. Opening at $4, it declined to 2½ and closed at $3. Seventy shares were sold in four different transactions, within the above figures.

Jewett & Shepard still continues to form the chief feature of the Virginia market. A slight decline is noticed of about a dollar a foot, with sales of 160 shares, in twelve transactions, at from $27 to $29.

Dilligent has been sold—50 shares at $1 per share and 50 at $2; Leopold, 20 at $6 and 10 at $7; fully sustaining its last week's prices.

Knickerbocker has improved about $2 per foot. We note sales of 30 shares—20 at $35¼ and 10 at $35½.

Colorado has been in somewhat more demand, and at slightly improved rates. Sixty-five shares have changed hands at from $3 to $5.

Lafayette has met with two purchasers, one for forty shares at $7, another for 10 at 5.

Lady Bryan No. 2, which was not heard from last week, met with two purchasers on Thursday at $1½, advancing on Saturday to $3 and $3½.

Randolph met with an advance of $2 at first, but dropped to its old figure of $7½ at the close.

Seneca, which had been quiet for a week or two, was in demand on Saturday at from $19 to $24, closing at the former figure.

San Francisco opened at $6, a slight decline from last week, and still further declined to 4½ at the close; 85 shares changed hands between those figures.

Santa Fe met with two purchasers of 5 shares at $7, and 2 at $9; Yuba 2 at 2, and 135 at 2; Jenny Lind 50 at $1½ and 12 at $2; Champion 20 at 75 cents; Ohio, 50 at $1½ and 10 at 1½.

Gray & Cook opened with a sale of 5 shares at 80 and closed with 5 at 72½.

PIONEER STOCK BOARD, REESE RIVER.—The Reese River *Reveille* gives the following proceedings of the Pioneer Stock and Exchange Board, at their meeting on Monday, the 6th inst:

REESE RIVER DISTRICT.—Burrington, $10 asked; Eclipse, $12½ bid; Geo. Leet, $7½ bid, $10 asked; Mills, Post & White, $4 bid, $10 asked; Joe Lane, $7 bid; Isabella No. 2, $10 asked; Cox & Rose, $5 bid, $5 asked.

AMADOR DISTRICT.—Chapman, $5 asked; Monte Cristo, $20 asked; Wildwood Tunnel Co., $4 asked.

BUNKER HILL DISTRICT.—Brown, $15 asked; Real del Monte, $15 asked.

MISCELLANEOUS.—Fort Wagner, $15 bid, $15 asked; Stephen A. Douglas, $7 asked; Ontario, $15 bid, $20 asked; Rochester, $6 asked; Isabella (Eastern Extension), $5 asked; Mermaid, $8 asked; Union Flag, $15 asked; Holcombe, $5 asked; Die Vernon, $25 bid, $25 asked; Sinaloa, $8 asked; Mountain King, $6 asked; Southern Belle, $2 asked; General Grant, $10 asked; Mattagorda, $6 bid; Osceola, $10 bid; Diana, $25 bid, $25 asked; Cox & Rose, $6 bid; Scotia, $3½ bid; Apollo, $2½ bid—buyer 30 days—$2½ asked; Hero, $3 asked; Fort Wagner $20 asked; Yates & Yandle, $4 asked; Overland, $10 asked; Warner & Wells, $17½ asked; Beverly, $6 asked; Emma Funston, $6 asked; Marshall, $25 asked; Black Ledge, $7 bid; Stranger, $10 bid; Oregon (Buel location), $15 asked.

SALES.—Twenty feet Cox & Rose at $5 per foot; ten feet Fort Wagner at $15 per foot; ten feet Diana at $25 per foot—20 days.

Since the above date we have received reports of the following sales:

Ten feet Joe Lane at $10 per foot; five feet Old Hickory, at $20 per foot; 10 feet Maggie at $75 per foot, buyer 3 days. 20 feet Cox & Rose at $5 per foot; 10 feet Fort Wagner at $15; 10 feet Diana at $25, 20 days.

Mining Gossip.

EDITED BY.....FRANK WARDDELL.
FOR THE MINING AND SCIENTIFIC PRESS.

A Defaulter.—There has been much excitement among the higher circles of society in this city, during the past few days, together with much talk and a general "flattering," to say nothing with regard to the "high-colored" scandal that has also been rife—all about a youth, though young in years, yet old in ideas, who has taken unto himself a sudden exit to parts unknown. It seems, from all accounts, and they are many, as is usual on such occasions, that this gay and fascinating youth had run deeply in debt, and had not only exhausted his own money, but had also done away with a considerable amount of his employer's, in speculating in various mining stocks. The position he held in the house was that of book-keeper, which position he had occupied for a number of years, and was always looked upon as an honest, trustworthy young man. It is thought by many that there were some older heads working in connection with his in the many schemes in which he had participated. We know of several other instances where stocks have been the cause of luring the youth away from the paths of honesty.

Indisposition of Lady Bryan—During the past week, the many admirers and enthusiastic advocates of Lady Bryan were called upon to witness a gradual and unlooked for decline in this once important personage. Sad, indeed, have been the features of many brokers. Only to think, after their united efforts to keep her up before the public, and when under the impression that she commenced to show signs of improvement again, she suddenly has a relapse, and is now verging on the brink of the grave. There is a strong probability that our brokers will soon be called upon to exclaim, in mournful words, "Though lost to sight, to memory dear."

More Coal Discoveries.—A species of lignite coal has been discovered on Mr. Black's ranch, just west of Salt Spring Valley, a short distance north of Copperopolis. We have already reported the discovery of coal about twenty miles north of this locality, and in the same range. This discovery of coal in the immediate vicinity of our principal copper mines, is a matter of no little significance. Should coal be found there in any considerable quantity, it must add vastly to the importance and value of the copper interest. It is to be hoped that the discovery will be promptly followed up with proper workings for its development.

Lady Bryan Mining Co.—A letter received on the 18th inst., from the Superintendent, states, among other matters, that "the cross drift continues very hard, with favorable indications. The upper shaft is now down about 17 feet below the lower level, as shown on plan. From this shaft we have considerable water to raise, but not enough to hinder the work. Ore seems to be drifting westward; none of any amount at the bottom of the shaft. At a further depth of eight or ten feet we expect to drift into ore vein."

More Silver Discoveries in Connection with Copper.—By a letter from Knight's Ferry, we learn that bona silver ore—muriate of silver—has been struck in the Nellie & Julia copper mine, near that place. It is found only 60 feet from the surface, and a considerable distance above the water level. These repeated strikes of silver in connection with the copper ores of that section, are most significant, and may lead to early and important developments.

Good Run.—The Crescent mill, in Indian Valley, after a run of eight days, cleaned up over $9,000. Well done for Plumas county.

Petroleum.—The Santa Cruz Petroleum Company have two hundred gallons of refined oil ready for shipment to San Francisco.

Maxwell Creek Co.—A dividend of $1 per share on the capital stock of this mining company has been declared, and was payable on the 16th inst.

Creditable.—The employees of the Real Del Monte company, through their Superintendent, have paid into the Sanitary Fund $515.

Real del Monte.—Another shipment of $13,000 was sent from this mine on the morning of the 18th inst. Affairs continue favorable.

New Bank.—It is rumored that a party of capitalists have recently arrived here from the East, with the intention of establishing a National Bank in this city.

Utah Mining Co.—This Company, which is located on Silver Hill, Esmeralda, have their shaft down two hundred feet. The ledge is six feet wide. They are hard at work taking out rock, and purpose having it crushed at Winter's mill.

Dividend.—The California Building and Loan Society have declared a dividend at the rate of 1½ per cent. per month. This shows exceedingly well as to the prosperity of the association.

Truckee Ditch.—This ditch, when completed, will cost in the neighborhood of $40,000, and is under the control of a joint stock company, composed of wealthy ranchmen in and about the Truckee Meadows.

Carbon Coal Company.—The certificate of incorporation of this Company was filed on the 18th inst. The location is Fassett's coal mining grounds, Contra Costa county. Capital Stock, $240,000. Trustees, N. C. Fassett, L. A. Booth, A. Walrath, A. P. Bryton and Lennder Sawyer.

New Map of Virginia City and Gold Hill.—We have received from A. Roscnfield, 602 Montgomery street, a new map of Virginia City and Gold Hill, giving a clearly defined diagram of the Comstock lead, from the California Company's ground on the north to the Kohinoor Tunnel on the south, and showing the location of all the principal shafts and companies along the lead. It has been drawn on a scale of 500 feet to the inch.

Map of Owen's River.—We acknowledge the reception of a new map of the Owen's river mining country, from Mono lake on the north to Owen's lake on the south, showing distinctly the general topography of the country, all the roads and towns, and the principal stopping places. Most of the mines of especial note appear to have been carefully laid down, so that their particular localities and relative positions can be readily ascertained. The map must be of great service to all persons resident in or visiting that region. It has been carefully drawn from the most reliable information, by A. W. Reddie, and is published by Warren Holt, 305 Montgomery street.

Rich Ore.—A lot of rich ore has lately arrived in this city from the ledges of the Main Stanislaus and Melones Sink, in Calaveras county, adjoining and crossing Carson creek. Some time since we expressed an opinion that these ledges were on the gold belt of that locality, and we are now gratified to see such pleasing proofs of the correctness of that theory. There are only 1,700 shares in each Company, and the ledges free from litigation as to title and boundaries. If more attention had been paid in early days to security of title, many lawsuits might have been avoided. Neither of these companies have yet erected a mill; but if prospects continue only half as satisfactory as at present, it is their intention to erect one in the fall, or early part of next year, when their mines will be more fully developed.

The yield of thirty-seven silver mines in Nevada Territory, is estimated at $1,000,000 per month, of which the Gould & Curry furnishes $450,000.

The mining fever has reached West Lubec, Maine, and Philadelphia capitalists are going there to mine for copper.

Summary of Mining News.

CALIFORNIA.

Good Clean Up.—The Pennsylvania Company, located near Cayoteville, according to the Nevada *Gazette*, recently took out $1,664 from twenty-six tons of rock—an average of $64 to the ton. The rock previous to crushing realized $58 to the ton.

Cement Crushing.—According to the Grass Valley *National*, experiments at Red Dog, Iowa Hill, and other places, have demonstrated that the cement and gravel common to blue-leads, especially in proximity to the bed rock, can be advantageously worked by the crushing process. As a proof of confidence in this new source of mining profits, Mr. Edward Williams, of Red Dog, is now putting up a heavy mill for such work upon his claims. The hard cement in these extensive gravel deposits will not yield to the action of the heaviest hydraulic pipe yet turned upon it. If we are not mistaken, two or three mills of that description are already in operation in Nevada county.

Sierra County.—The *Mountain Messenger* continues to speak encouragingly of the yield of the mines in that vicinity, and in the southern portion of Plumas county.

In Siskiyou, Empire Creek, a tributary of the Klamath, is spoken of as a rich mining district. It is said to contain both placer and quartz mines. As high as $20 per day has been made in the placer diggings, and quartz lodes have assayed from $30 to $100 in silver and gold.

In Klamath, river mining promises to be carried on more extensively this summer than ever before.—Coffman & Co. have nearly completed their apparatus and machinery for raising water from drifting operations under Klamath river. Other operations, such as turning the river, bank drifting and quartz mining, are receiving a new impetus, as though good prospects are realized.

Tehama.—The Red Bluff *Independent* speaks confidently of the Elder Creek mines, and says there is "a world of copper in that whole section of country."

Mariposa.—The Mariposa *Gazette*, of late date, says:—"Some time ago, mention was made in this paper that a quantity of rock from Mr. Wm. B. Floyd's vein would soon be crushed in Deville's mill. They have just got through crushing twenty-three tons, which aggregated the neat sum of $1,392, or about $60 per ton. The above result is considered an average of the vein."

Mining in El Dorado.—A correspondent of the Union at Greenwood writes, under date of May 9th, as follows:

Hacket & Co., at the Spanish dry diggings, two miles and a half from here, have struck a rich seam of decomposed quartz, and have been digging it out by the pound—having taken out over six thousand dollars in the last few days—and still it continues to pay. Davis, Ross & Evans have just struck another seam of the same character about one mile from this place that looks like old times. The dirt appears to be half gold. They expect big things next few weeks. Miners that want to prospect can find plenty of indications without traveling over a sandy desert or a snow-covered waste to find them. If these claims were in Greenland instead of Greenwood they would be sought after by thousands from all parts of Uncle Abe's dominions.

Mariposa County.—The Mariposa *Free Press* says that considerable preparation in the way of fluming etc., with a view of extensive river mining this season, is being made on the Mereed at Smith's Ferry, and for quite a distance above and below that point.

A New Quartz Mill, having the capacity to crush 40 tons of ore per day, is in process of erection below Gold Hill, N. T. It is being erected by C. B. Land & Co, and will be called the Pacific Mill. It is on the east side of the cañon, over which a substantial bridge has been thrown.

WASHOE.

The Burnside is one of the oldest locations in Virginia, having been made in the winter of 1859-60. The peak of Mount Davidson is the center of this claim. The company have started four tunnels, two of which are still in progress; one, known as the "upper tunnel," is in 700 feet, and has followed along the ledge 200 feet, besides a drift running off on a branch ledge some 100 feet. The ledge is encased in hard granite, and is about 2½ feet wide. About two tons of rock from this tunnel have been crushed. The lower tunnel is still longer, and will strike the ledge about 200 feet lower than the one next above. The pay rock thus far taken from this mine has come

from exploring shafts and tunnels, and no particular attention has been devoted to it. The company are expecting soon to find good rock in their lower tunnel, which is now being driven through very soft ground.

A Subterranean Stream.—The tunnel of the Gilmore Company, American Flat, Says the Territorial *Enterprise*, is on the point of cutting a large stream of water. The tunnel is now in 525 feet and is fast approaching this stream, the noise of its waters being daily more distinctly heard. It is supposed that a large lead, as well as a large stream of water, will shortly be struck. The company have already passed through one lead of much promise, and should the one they soon expect to strike not prove satisfactory, they will go back and develope this one, their front lead.

The Jenny Lind is an old location, just north of the American Flat. The first tunnel commenced by this company was abandoned after running 200 feet. Two shafts were subsequently started and in time abandoned. A third was started in January last, which is still in progress. No drift will be run until the shaft is 200 feet deep, when it must be very near the ledge. Expectations are on the *qui vive* as to what will be found when they reach the vein with this shaft.

Napoleon Consolidated, located just west of the American Flat, has had considerable work done upon it, in various times, since its location in 1860, amounting in the aggregate to quite extensive mining works. The work in the claim, latterly, has been devoted to running a tunnel to strike the vein at a lower point than heretofore attempted, and is by far the most extensive of any work hitherto attempted in the claim. It is now in about 300 feet, half the distance through blasting rock. The tunnel is thought to be close upon the main ledge. Judging from surface indications the proprietors entertain strong hopes of striking a good vein. Rich developments are confidently expected in that vicinity at an early day, independent of this mine.

Best & Belcher.—There is still a large influx of water at this mine, making a steady use of the pump necessary, though it by no means requires the full power of the pump to keep the works drained.

HUMBOLDT.

The Sheba is still pushing its work ahead, employing forty hands. Large lots of first class ore is shipped to San Francisco for Europe. A new feature at this mine, says the Humboldt *Register*, is the sluicing apparatus, for saving small particles of rich ore. This employs a string of men and boys, who save thousands of dollars by assorting mineral from waste rock and putting it through the jiggers, to take off the earthy matter. This jigging business is not employed in any other silver mine in the Territory. Fifty tons of machinery for this mill were at Red Bluff on the 23d ult., awaiting teams. A contract has been made for the required lumber, which is to be delivered the 25th inst.

The De Soto.—Superintendent Fewell is getting out some ore for shipment to this city. A lot of ore was recently worked at the Star mill, after roasting, with a fine result, according to the *Register*. The metal cannot be extracted from these antimonial ores by any mill process yet introduced, without previous roasting. A tunnel will soon be commenced to strike the ledge fifty feet deeper than it has hitherto been opened. The old tunnel will hereafter be used mainly for ventilating purposes. Twelve men are constantly employed at this mine.

The United States.—A small lot of rock from this mine was put through a mill process some three weeks since, and yielded $210 to the ton. Mr. Root, who owns a large interest in this mine, has undertaken its management, and thinks he can make the work of development pay as it progresses. He has already several tons of ore out, which he thinks is quite as rich as the sample above mentioned.

Moonlight.—A large quantity of second class ore from this ledge, thrown aside when the work was in progress, is now being hauled to Fall's mill to be crushed.

Gem of Sierra.—A new ledge was struck in this claim about three weeks since, showing an abundance of metal of the same character as the old ledge. Seven tons were taken over to Lang Syne mill.

The Evening Star.—Two and a half tons of ore from this mine, was worked at Fall's mill a few days since, which yielded $1,000.28 in bullion—$400 per ton. The vein from which this rock was taken out is said to be well defined, and from 2½ to 3 feet thick. The Superintendent states that he will proceed, at once, to take out a large quantity of ore at this point.

MINING NOTICES—APRIL 30th.

Notice.—The Annual Meeting of the Stockholders of the Mountain Mary Gold and Silver Mining Company, will be held at the Office of the Company, 430 Montgomery street, San Francisco, on the third Saturday in May next, for the purpose of electing three Trustees. J. WARREN CLARK, Sec'y.
San Francisco, April 27th, 1864. 18-4t

Wide West Copper Mining Company, Stanislaus District, Calaveras county, Cal.

A STOCKHOLDERS' MEETING of the Wide West Copper Mining Company will be held at the office of the Company, No. 645 Clay street, on Tuesday, May 31st, 1864, at 7½ P. M., for the election of officers, and such other business as may come before it.
M. C. ELMORE, Secretary.
San Francisco, April 29th, 1864. 18-4t

Penn Silver Mining Company.—Notice is hereby given that the annual meeting of the Stockholders, of the "Penn Silver Mining Company," will be held at the Office of the Secretary, No. 411 Clay street, on WEDNESDAY, the 8th day of June, 1864, at 7 o'clock, P. M., for the purpose of electing a Board of five Trustees for the ensuing year. By order.
WM. FAULKNER, Secretary.
April 26 1864. (18-4t) Office, 411 Clay street San Francisco.

La Marronena Silver Mining Company.—Notice is hereby given that the annual meeting of the Stockholders of the La Morrenena Silver Mining Company will be held at the Office of the Secretary, No. 411 Clay street, on WEDNESDAY, the 8th of June, 1864, at 4 o'clock, P. M., for the purpose of electing a Board of Trustees for the ensuing year. By order.
WM. FAULKNER, Secretary.
April 26, 1864. (18-4t) Office, 411 Clay street, San Francisco.

Storm Cloud Silver Mining Company, Reese River District, N. T.

Notice is hereby given that in accordance with the by-laws of the Company, the first quartely meeting of the Stockholders of the Storm Cloud Silver Mining Company, for the election of Trustees, and transaction of other business, will be held, at the Office of the Secretary, No. 624 Montgomery St., San Francisco, on MONDAY, May 30th, 1864, at 3 o'clock, P. M. By order of the Board of Trustees
18-4t H. H. McCOUGHTRY, Secretary.

Bay City Silver Mining Company, Reese River District, N. T.

Notice is hereby given that in accordance with the by-laws of the Company, the first quartely meeting of the Stockholders of the Bay City Silver Mining Company, for the election of Trustees and the transaction of other business, will be held at the office of the Secretary, No. 624 Montgomery street, on MONDAY, June 6th, 1864, at 3 o'clock, P. M. By order of the Board of Trustees.
18 4t H. H. McCOUGHTRY, Sec'y.

Cortez Gold and Silver Mining Company, Cortez District, Nevada Territory.—San Francisco, April 28, 1864.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 27th day of April, 1861, an Assessment of two dollars and fifty cents per share was levied upon the capital stock of said Company, payable immediately, in gold coin of the United States of America, to the Secretary, at the office of the Company, 706 Montgomery street, San Francisco.

Any stock upon which said Assessment shall remain unpaid on the 2d day of June, 1864, will be advertised on that day as delinquent, and, unless payment shall be made before, will be sold on the 20th day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of sale.
R. N. VAN BRUNT, Secretary,
18-4t No. 706 Montgomery street, San Francisco.

Mountain Mary Gold and Silver Mining Company, Silver Mountain, Alpine county, Cal.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held April 23d, 1864, an assessment of twenty-five cents per share was duly levied, payable in U. S. Gold coin, to the Secretary, J. Warren Clark, 430 Montgomery Street, San Francisco, (room No. 5, 3d floor), or to Council Goodell, Superintendent, Silver Mountain.

Any stock upon which said assessment shall remain unpaid on the 28th day of May, 1864, will be advertised on that day as delinquent and unless payment shall be made before, will be sold on the 16th day of June, 1864, to pay the delinquent assessment and costs of advertising and expenses of sale. By order of the board of Trustees.
J. WARREN CLARK, Sec'y.
18-4t Office, 430 Montgomery street.

George Leet Gold and Silver Mining Company, Crown Point Tunnel and Mining Company, Reese River Mining District, N. T.

Notice is hereby given, that at a meeting of the several Boards of Trustees of said Companies held on the 25th day of April, 1864, an assessment of fifty (50) cents per share was levied upon the Capital Stock of said Companies, payable immediately, in United States Gold coin, to the Secretary, at his Office, No. 5 9 Clay Street, or to S. F. Ambler, at Austin, N. T.

Any Stock upon which said assessment shall remain unpaid on Saturday, the 28th day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 15th day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.
D. B. FRANCIS, Secretary.
18-4t Office, 509 Clay St., San Francisco.

Eureka Mill and Mining Company, Big Creek District, Lander county, N. T.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 25th day of April, 1864, an assessment of five ($5) dollars per share was levied upon the Capital Stock of of said Company, payable immediately, to the Secretary, or to R W. Brett.

Any stock upon which said assessment shall remain unpaid on Saturday, May 28th, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, June 11th, 1864, at 12 o'clock M. to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. N. DUPERU, Sec'y.
18-4t Office, No. 208 California St., San Francisco.

Tellurium Gold and Silver Mining Company, Pine Grove, Amador county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 21st day of April, 1864, an Assessment of one dollar per share was levied upon the Capital Stock of said Company, payable on the 23d day of April, 1864, in United States gold and silver coin, to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 4th day of June, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale. By order of the Board of Trustees.
WM. H. MARTIN, Secretary.
Office, 627 Clay street, San Francisco. 17-4t

Grafton Gold & Silver Mining Company, Reese River Mining District, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 25th day of April, 1864, an assessment of thirty (30) cents per share was levied upon the Capital Stock of said Company, payable immediately, in United States Gold Coin, to the Secretary, at his Office, No. 509 Clay St., or to S. F. Ambler, at Austin, N. T.

Any Stock upon which said assessment shall remain unpaid on Saturday the 28th day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 15th day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.
D. B. FRANCIS, Sec'y.
18-4t Office, 509 Clay Street, San Francisco.

Gobernadora Silver Mining Company, San Antonio District, Lower California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 23th day of April, 1864, an Assessment of one dollar per share was levied upon the Capital Stock of said Company, payable on the 30th day of April, 1864, in United States gold coin to the Secretary, at the office of the Company.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 28th day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 11th day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.
C. W. HAYDEN, Secretary.
18-4t Office, 625 Clay street, San Francisco.

Lewis Consolidated Gold and Silver Mining Company. Nicolaus Gold and Silver Mining Company, Reese River Mining District, N. T.

Notice is hereby given, that at a meeting of the several boards of Trustees of said Companies held on the 25th day of April, 1864, an assessment of twenty-five cents per share was levied upon the Capital Stock of said Companies, payable immediately, in United States Gold Coin, to the Secretary, at his Office, 509 Clay St., or to S. F. Ambler, at Austin, N. T.

Any Stock upon which said assessment shall remain unpaid on Saturday, the 28th day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 15th day of June, 1864, to pay the delinquent assessment, together with costs of Advertising and expenses of the sale. By order of the Board of Trustees.
D. B. FRANCIS, Secretary.
18-4t Office, 509 Clay Street, San Francisco.

CAUTION.

Enterprise Gold and Silver Mining Company.—Location, El Dorado Canon, Territory of Arizona.

The public are hereby cautioned against purchasing the following Certificates of Stock of the above named Company, the same having been sold, by order of the Board of Trustees, to pay assessments delinquent—to wit:

Names.	No. Certificate.	Shares.
T. H. Williams	2, 4, 5, 7, 8	20, 10, 10, 30, 20
	10, 11, 18, 19, 20	20, 10, 25, 25, 25
	21, 45, 97, 98, 99, 100	25, 5, 5, 5, 5, 5
M. D. Fairchilds	14	25
Jacob Heintz	40	5
Joseph F. Ridler	103	5
A. M. Bennett	15, 92	not issued, 27, 10, 5
S. L. De Lano	46	10
Abraham Jones	102	10
C. A. James	26, 82, 90, 91	5, 5, 5, 10
J. P. Clark	24	20
O. E. Johnson	28, 93, 94	15, 5, 5
C. Fink	9	5
Robert Keir	30, 31, 32	25, 25, 25
Alexander Kier	33, 24, 35	25, 25, 25
William Wosenebraft	36, 37, 38	25, 25, 25
Thomas Brown	77	5
C. W. Young	85, 86, 88	2, 2, 1
John Miller	79, 80	50, 50
Columbia Dyer	89	5
F. A. Bureb	76	10

L. B. WOOSTER, Secretary,
18-4t 622 Washington street, San Francisco.

Exchange Gold and Silver Mining Company, Reese River District, Lander county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 30th day of April, 1864, an assessment of 25 cents per share was levied upon the Capital Stock of said company, payable immediately, in U. S. Gold Coin, to the Secretary, or to Charles H. Fiske, Austin, N. T.

Any stock upon which said assessment shall remain unpaid on the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 22d day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the board of Trustees. C. W. M. SMITH, Secretary.
19-4t Office, No. 29 Gov't House, San Francisco.

NOTICE.

Is hereby given that from and after July 1st, 1864, the principal Office of the Savage Copper Mining Company Situated in Zinc House District Nevada County, California—will be in Lincoln, Placer County, California. A. BATEMAN, Sec'y,
17-1m Lincoln, April 18, 1864.

Mechanical.

REYNOLD'S

Patent Cut-Off and Governor,

For Steam Engines.

127 of these Invaluable Machines

ARE NOW IN USE

In California and Nevada Territory, giving a perfectly regular motion and

Saving 20 to 75 per cent of the Fuel.

Steen's Improved Governor

IS THE CHEAPEST, SIMPLEST AND QUICKEST TO ACT AND least liable to get out of order of any Governor in use. It can be seen in operation at the Golden State Iron Works, at the Stone Breaker, foot of Montgomery Street and at the Sugar Refinery, 8th Street, San Francisco.

Steam Engines, Boilers, Pipes,

Hydraulic Presses, Shafting, Pulleys, Etc., Etc., bought and sold the best market rates.

Anti-Incrustation Powder,

A sure remedy for Scale in Steam Boilers, without injury to the Iron. In use for the past EIGHT years.

☞ Machinery Made and Repaired. ☜

—Refer to—

Sugar Refinery, San Francisco,
Cottell & Co., San Jose,
L. A. Booth, Esq., Virginia City,
And 2,000 others in the United States.

E. T. STEEN.

I-tf Nos. 37 & 39 Fremont Street and 42 & 44 Beal Street.

MINERS' FOUNDRY

—AND—

MACHINE WORKS,

First street, between Howard and Folsom streets,

SAN FRANCISCO.

EVERY DESCRIPTION OF IRON AND BRASS MACHINERY, the Best and Most Economical, manufactured in the State of California, will be furnished with dispatch at the Miners' Foundry and Machine Works, as:

Steam Engines and Boilers, Flour, Saw and Quartz mill machinery Mining Pumps, Amalgamators, Retorts, Etc., Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections, designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

☞ Parties desiring to test their ores practically, in small quantities will be afforded ample facilities, free of cost.

All parties desiring accurate and highly finished drawings and Superior Machinery, at most reasonable rates are cordially invited to call before contracting elsewhere.

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PACIFIC IRON WORKS,

First street, between Mission and Howard streets,

SAN FRANCISCO.

GODDARD & COMPANY,

—Manufacturers of—

STEAM ENGINES & BOILERS,

QUARTZ, FLOUR, SAW AND SUGAR MILLS,

AMALGAMATING PANS AND BARRELS, MINING PUMPS

AND HOISTING GEAR, WATER WHEELS,

And Machinery of Every Description.

Also furnish all kinds of Iron and Brass Casting. Only Manufacturers of the celebrated Bryan Battery. I4-tf

THE ATLAS IRON WORKS,

No. 24 & 26 Fremont Street.

—Manufacture—

STEAM ENGINES, MINING MACHINERY, QUARTZ MILLS, MINING PUMPS, AMALGAMATORS, AND ALL OTHER KINDS OF MACHINERY FOR MINING OR MILLING PURPOSES.

Castings of all kinds,

Furnished. Our new and complete arrangments will enable us to do this kind of work in a superior manner and on the shortest notice.

Steam Engines of Scott's Patent,

Can be furnished of any size, and of high or low pressure. These Engines combine so many points of decided improvement in their simplicity of construction, and in the economy of fuel for running them, as to make them superior to all others. One can be seen in operation at the works, where all information respecting them can be obtained.

16v8 THOMAS SCOTT & CO.,

IMPROVED WATER-WHEEL,

—Patented by—

John Tyler, West Lebanon, N. H.

GIVING THE MAXIMUM POWER WITH THE MINIMUN COST—HAVING THE FOLLOWING AS SOME OF ITS ADVANTAGES OVER OTHERS—GIVING THE BEST PER CENTAGE OF WATER USED, DURABILITY.

It runs Equally as well IN Back Water as OUT.

IT IS ADAPTED TO HIGH HEADS OR LOW—IT IS NOT LIABLE to get out of repair—It can be put to running by any Machinist in a very short time—It is the steadiest running and easiest regulated wheel in use—There are now some 500 of them in use in the United States and Canadas, running under all heads, from 4 to 80 feet, and giving universal satisfaction. Address

SMITH & HANSCOM,

15v8-3m Golden State Iron Works, San Francisco.

Rock Drilling Machines.

HAND AND POWER ROCK DRILLING MACHINES, FOR SALE AT 25 PER CENT LESS THAN IMPORTATION PRICES, TO PEREMPTORILY CLOSE OUT THE ENTIRE STOCK.

Also, Second hand Presses as follows: One Hydraulic Press; One Screw Standing Press; One Lithographic Press. The above presses are all in good order. WM. W. DUNN.

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PIONEER FOUNDRY and MACHINE SHOP,

Lower Gold Hill,

Have Superior Facilities for Making

MINING & MILLING MACHINERY,

A COMPLETE SET OF MACHINE TOOLS WITH

PLANER,

ENABLES ME TO DO ALL KINDS OF

MACHINE WORK AT SHORT NOTICE.

RETORTS AND INGOT MOULDS,
STAMP SHOES AND DIES,
WHEELER, VARNEY AND HEPBURN
PAN SHOES CONSTANTLY ON HAND.

Plans, Specifications, and Drawings of all kinds of Mill and Mining Machinery made at short notice, by

13 OLIVER HYDE, JR.

A. B. HINCKLEY, WM. E. WORTH. WM. A. FIELD

Fulton Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Gast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

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J. H. GRUSH, J. A. PEER, W. BUSHMAN

GRUSH & CO.,

Pattern and Model Makers.

Drawings Made for Engines, Mills, Water Wheels, Mining Machinery, Etc.

—Also—

WOOD WORK FOR ALL KINDS OF MACHINERY.

☞ Scroll Sawing Done to Order.

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GEORGE T. PRACY,

MACHINIST AND BLACKSMITH.

Steam Engine, Flour and Saw Mill,

And Quartz Machinery, Printing Presses,

—And—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED

Nos. 109 and 111 Fremont street, near corner of Mission,

OPPOSITE MECHANICS' MILL,

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JOHN F. CALLAGHER..... .....JOSEPH H. WEED.

GALLAGHER & WEED,

BRASS AND BELL FOUNDRY

And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING, DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, MADE to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks, also brass Padlocks and Shop Locks of various patterns, on hand and made to order.

☞ Particular attention given to casting Rudder Braces and Ship Work in general.

☞ All Jobs promptly attended to.—Prices moderate. ☜

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j21f

LEWIS COFFEY. J. S. AISDON.

LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

THE ONLY EXCLUSIVELY BOILER MAKING ESTABLISHment on the Pacific Coast, owned and conducted by Practical Boiler Makers. All orders for New Work, the repairing of Old Work, executed as ordered, and warranted as to quality.

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PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,

BOILER MAKERS AND SHEET IRON WORKERS,

N. B. All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

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Nos. 6 & 8 Battery street, near Bush, San Francisco.

JOHNATHAN KITTREDGE, MANUFACTURER

—Of—

FIRE-PROOF DOORS, SHUTTERS, GRATINGS AND BANK VAULTS.—ALSO, BLACKSMITH'S WORK. I4-m

Vulcan Iron Works Company.

P. Torquet.....Manager.

Steam Engine Builders and Boiler Makers,

Iron Founders and General Engineers,

PUMPING, HOISTING, MINING AND QUARTZ-CRUSHING Machinery. Shoes and Dies of the hardest Iron. Russia Iron Punched Screens. Steamboat Machinery, Saw, Flour and Sugar Mills. High and Low Pressure Boilers of all styles. Josyal and other Turbine Water Wheels with latest improvements.

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LEANDER RANSOM,

Civil Engineer and Surveyor,

HAVING BEEN CONNECTED WITH THE PUBLIC WORKS OF the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. Also

State Locating Agent,

AND AS SUCH HAVING THE SALE OF

600,000 Acres of State School Lands.

At the low price of $1,25 per Acre.

Terms—Twenty per cent in cash and the balance on a credit of several years.

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NEW YORK.

BUY AND SELL ON COMMISSION, STATE AND CITY BONDS, Bank and Railroad Stocks, and other prime securities.

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Receive moneys on deposit, and allow interest on special deposits at such rates as may be agreed upon.

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Make advances upon approved merchandise consigned to our San Francisco house.

Fill orders for staple goods of all kinds, for the California and Oregon markets, and effect Marine and Fire Insurance in the best offices.

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AGENTS FOR "COLEMAN'S CALIFORNIA CLIPPER LINE," loading and despatching regularly, every month, two to three first class clippers for San Francisco. Goods forwarded from any part of the United States or Europe, will be received with care, and shipped immediately at lowest current rate of freight. Bonded goods carefully attended to.

Orders for purchase of merchandise should be accompanied with a remittance of about 20 per cent. of the cost, or satisfactory arrangements can be made with our San Francisco house. On orders for Bonds and Stocks, 10 per cent. of the par value is always required.

We beg to say, no house has superior facilities for the transaction of all this business, and parties intrusting their interests to our care may rely upon our most faithful and watchful attention.

WM. T. COLEMAN & CO.,
70 Wall street, New York,
18v8 And California and Front streets, San Francisco.

Advances Made on Copper Ores,

WOOL, HIDES, WHALE OILS, ETC., CONSIGNED TO OUR friends in New York, Boston or England.

WM. T. COLEMAN & CO.,
18v8 San Francisco.

Exchange on New York,

PAYABLE IN COIN OR IN CURRENCY—FOR SALE, IN SUMS to suit, by WM. T. COLEMAN & CO.,
18v8 California and Front streets, San Francisco.

To Druggists and all Prescribing for Neuralgic and Nervous Cases.—Your attention is called particularly to the efficacy of WATTS' NERVOUS ANTIDOTE for the above. Feelings of humanity, independent of pecuniary considerations, would prompt you to recommend it in all cases of Neuralgic Pains, Face Ache, from defective teeth, and the General Wasting Away and Debility of the Nervous System, if you could have the assurance that this was what it is purported to be—THE GREAT RELIABLE TRANQUILIZER AND RESTORER OF THE SYSTEM. It has been repeatedly prescribed in cases of excessive drinking, on the verge of Delirium Tremens, and even while laboring under its distressing influence, with astonishing results. It contains no preparation of Opium or Valerian, and is never accompanied with the unpleasant sensation always experienced after taking successive doses of them. It is also the best Soothing Syrup in use. Patients have taken Watts' Nervous Antidote many months in succession, and experienced no unpleasant effect whatever—while the same continued use of many other popular remedies has completely shattered the system.

For sale, Wholesale and Retail, by SAMUEL ADAMS, U. S. Drug Store, corner of Pine and Kearny Streets, San Francisco. 6v8-3m

JOHN TAYLOR,

—Importer and Dealer in—

Druggists' and Chemists' Glassware,

And a Full Assortment of Assayers' Articles.

—Including—

Bullion and Assay Ballances, Furnaces, Muffles, Crucibles, Cupels, Acids, Etc., Etc.

Also—A Full Assortment of Reagents.

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Boston Mastic Roofing.

WE ARE PREPARED TO FILL ALL ORDERS FOR ROOFING throughout the State, Mexico or Nevada Territory. The attention of miners and mill owners are especially called to this notice, it being the cheapest and most economical roofing in use.

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10v8-2m N. P. PERIN & CO.

BLASTING POWDER!

Prime Blasting Powder, on Consignment

And for sale in lots to suit purchasers, by

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6v8-tf No. 405 Front street, San Francisco.

WANTED,

Gold Quartz suitable for Cutting Jewelry.

By FRONTIER & DEVIERCY.

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A New and Valuable Book.

PROCESS OF SILVER AND GOLD EXTRACTION, BY GUIDO Kustel, Mining Engineer and Metallurgist, former manager of the Ophir Works, &c.; 350 pages octavo illustrated.

This admirable work has met with the highest commendations from the Press and Scientific men, as a clear and able exposition of the science as practised in California and Nevada Territory. It is written for the people in good plain English and finely illustrated.

Price—post paid—Cloth $6; Sheep $7.

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Booksellers, Importers and Publishers,
417 and 419 Montgomery street,
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Mr. Jarvis Jewett is our duly authorized advertizing agent and collector in this city.

MINING NOTICES—MAY 14th.

Rubicon Gold and Silver Mining Company, No. 3. Location of mine, Keys District, Gwens' River, Mono county, California.

Notice is hereby given, that in accordance with the laws of California, and an order duly made by the Board of Trustees of the Rubicon Gold and Silver Mining Company, No. 3, there will be sold, at public auction, to the highest bidder, for cash, in United States gold coin, on the 14th day of June, 1864, at 11 o' clock A. M., of that day, at the office of the Company, No. 7 & 8 third floor, No. 302 Montgomery street, San Francisco, so many shares of the Capital Stock of the Company, standing in the names of the followlng persons, or shareholders, as will be necessary for the payment of assessment No. 4, of ten (10) cents per share, duly levied thereon February 27th, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said assessment and accruing charges are previously paid.

Names.	No. Asst.	Certif.	Shares.	Due.
Adam Bland	4	no cer	150	balance, $9 38
Henry Bush	4	no cer	150	15 00
Sarah Cook	4	38	25	balance, 1 56
Sarah Cook	4	no cer	125	balance, 7 81
Wm. P. Carter	4	no cer	75	7 50
W. O. Davis	4	426	50	6 00
W. C. Davis	4	509	55	5 50
W. G. Davis	4	537	25	2 50
W. G. Davis	4	628	25	2 50
W. G. Davis	4	630	25	2 50
W. C. Davis	4	631	25	2 50
W. G. Davis	4	632	25	2 50
W. G. Davis	4	633	25	2 50
W. G. Davis	4	634	25	2 50
W. G. Davis	4	720	12	1 20
W. G. Davis	4	no cer	33	3 30
Phlio Doud	4	no cer	132	balance, 12 21
Wesley Diggins	4	no cer	1400	140 00
Wesley Diggins	4	757	100	10 00
A, M. Genung	4	no cer	150	balance, 9 37
John Jeffress	4	229	15	balance, 93
John Jeffress	4	256	6	balance, 37
John Jeffress	4	257	6	balance, 37
John Jeffress	4	258	12	balance, 75
John Jeffress	4	no cer	93	balance, 5 81
Wm. L. Kirby	4	326	50	balance, 3 13
Wm. L. Kirby	4	327	25	balance, 1 56
Wm. L. Kirby	4	no cer	35	balance, 2 15
John Kneedler	4	260	12	balance, 75
John Kneedler	4	261	50	balance, 3 13
John Kneedler	4	358	6	balance, 31
John Kneedler	4	no cer	58	balance, 3 62
M. H. Kimball	4	no cer	42	4 20
A. J. Lovejoy	4	83	25	1 56
A. J. Lovejoy	4	276	12	75
Levi C. Lane	4	14	100	balance, 6 25
Levi C. Lane	4	15	25	balance, 1 56
Wheeler Martin	4	4	25	balance, 1 56
Wheeler Martin	4	35	30	balance, 1 87
Wheeler Martin	4	40	30	balance, 1 87
Wheeler Martin	4	41	30	balance, 1 87
Wheeler Martin	4	no cer	675	balance, 42 18
D. H. Mitchell	4	331	5	balance, 46
D. H. Mitchell	4	333	25	balance, 2 31
D. H. Mitchell	4	449	12	balance, 1 11
D. H. Mitchell	4	450	12	balance, 1 11
D. H. Mitchell	4	462	10	balance, 93
D. H. Mitchell	4	464	12	balance, 1 11
J. W. Myrick	4	no cer	150	15 00
M. M. Miller	4	611	150	15 00
Jas. O'Connell	4	271	50	balance, 3 12
Jas. O'Connell	4	272	50	balance, 3 12
Jas. O'Connell	4	273	25	balance, 1 56
Jas. G'Connell	4	274	25	balance, 1 56
Thos. H. Porter	4	183	10	balance, 63
Thos. H. Porter	4	no cer	105	balance, 6 56
I. Richards	4	434	75	balance, 3 75
John Reynolds	4	no cer	450	45 00
Wm. Smith	4	218	25	balance, 1 56
Wm. Smith	4	219	25	balance, 1 56
Wm. Smith	4	220	25	balance, 1 56
Wm. Smith	4	221	25	balance, 1 56
Wm. Smith	4	222	25	balance, 1 56
Wm. Smith	4	223	25	balance, 1 56
O. W. Spencer	4	549	75	7 50
G. W. Spencer	4	655	18	1 80
G. W. Spencer	4	no cer	1357	135 70
F. Shoemaker	4	no cer	73	7 30
Jos. Ware	4	607	6	balance, 37
Jos. Ware	4	694	12	balance, 75
Jos. Ware	4	695	12	balance, 95
Jos. Ware	4	749	25	balance, 1 56
Jos. Ware	4	no cer	129	balance, 8 06

By order of the Board of Trustees.

J. P. VAN HAOAN, Secretary.

Office, No. 302 Montgomery street, No. 7 and 8, 3d floor.

San Francisco, May 12th, 1864. 20-4t

Mammoth Gold and Silver Mining Company, Rock Spring District, San Bernardino county.—Notice—There are delinquent, upon the following described Stock, on account of Assessment levied on the 13th day of April, 1864, the several amounts set opposite the names of the respective Shareholders, as follows:

Names.	No. Certif.	No. Sh.	Am't
Bushnell, R L	214	5	2 50
Cheney, James	64	16 8-12	—
" "	67	20	—
" "	69	20	—
" "	70	10	—
" "	72	10	38 33
Conrad D	120	7 3-12	—
"	121	10	—
"	122	10	—
"	123	7 3-12	17 25
Chapin, O W	148	4 7-12	2 30
Crocker, J	184	16	8 00
Francis, D B	108	6 1-3	—
" "	109	10	—
" "	130	10	12 25
Flint, W K	144	8 8-12	4 33
Franklin, E	166	10	6 00
Gray, C H	155	16	8 00
Harrington, G	104	7	—
" "	105	10	8 50
Hodgden W	186	16	8 00
Knap, J B	132	7 3-12	—
" "	133	10	—
" "	134	10	—
" "	135	7 3-12	17 25
Livermore, H G	34	216 8-12	108 33
Ludlund, T B	171	10	—
" "	172	7 3-12	—
" "	173	17 3-12	17 25
Molt, J P	110	16 8-12	8 33
Ober, Benj	234	10	5 00
Rawley, J B	176	2	1 00
Reed, C W	182	16	—
" "	198	8	12 00
Taylor John	115	25	12 50
Webster, F E	236	6	2 50

And, in accordance with law, and an order of the Board of Trustees, made on the 13th of April, 1864, so many Shares of each parcel of said Stock as may be necessary, will be sold at Auction house of Jerome Rice & Co., 327 Montgomery street, on the 28th day of May, 1864, at the hour of 11 o'clock, A. M., of said day, to pay said delinquent Assessment thereon, together with costs of Advertising and expenses of the Sale. GEORGE BOWER, Secretary.

20-5t Office, 611 Clay street, Room 3, San Francisco, May 14.

Is is full of the most valuable reading matter. Those at all interested in mining affairs should subscribe for it at once.—*Alameda Gazette.*

It is devoted to news, art, science and progress, and should receive a liberal support.—*Solano Press.*

Rubicon Gold and Silver Mining Company, No. 4. Location of Minc, Keys District, Owens' River, Mono county, California.

Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Rubicon Gold and Silver Mining Company, No. 4, there will be sold at public auction, to the highest bidder, for cash, in United States gold coin, on the 14th day of June, 1864, at 11 o'clock, A. M., of that day, at the office of the Company, No. 7 & 8 third floor, No. 302 Montgomery street, San Francisco, so many shares of the Capital Stock of the Company, standing in the names of the following persons or shareholders, as will be necessary for the payment of Assessment No. 4, of ten (10) cents per share, duly levied thereon Febrnary 27th, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said Assessment and accruing charges are previously paid.

Names.	No. Asst.	Certif.	Shares.	Due.
Adam Bland	4	no cer	150	balance, $9 38
Henry Bush	4	no cer	150	15 00
Sarah Cook	4	38	25	balance, 1 56
Sarah Cook	4	no cer	125	balance, 7 81
W. P. Carter	4	no cer	75	7 50
Philip Mack	4	no cer	132	balance, 12 20
Wesley Diggins	4	no cer	1400	140 00
Wesley Diggins	4	726	100	10 00
W. G. Davis	4	485	55	5 50
W. G. Davis	4	598	25	2 50
W. G. Davis	4	602	25	2 50
W. G. Davis	4	603	25	2 50
W. G. Davis	4	604	25	2 50
W. G. Davis	4	605	25	2 50
W. G. Davis	4	606	25	2 50
W. G. Davis	4	691	12	1 20
W. G. Davis	4	no cer	33	3 30
A. M. Genung	4	no cer	150	balance, 9 37
John Jeffress	4	206	15	balance, 93
John Jeffress	4	232	6	balance, 37
John Jeffress	4	233	6	balance, 37
John Jeffress	4	234	12	balance, 75
John Jeffress	4	no cer	93	balance, 6 81
W. L. Kirby	4	306	25	balance, 1 56
W. L. Kirby	4	no cer	85	balance, 5 31
John Kneedler	4	236	14	balance, 88
John Kneedler	4	237	50	balance, 3 13
John Kneedler	4	332	5	balance, 31
John Kneedler	4	no cer	56	balance, 3 50
Levi C. Lane	4	14	100	balance, 6 25
Levi C. Lane	4	15	25	balance, 1 56
A. J. Lovejoy	4	61	25	balance, 1 56
A. J. Lovejoy	4	252	12	balance, 75
Wheeler Martin	4	35	15	balance, 94
Wheeler Martin	4	39	27	balance, 1 25
Wheeler Martin	4	40	20	balance, 1 25
Wheeler Martin	4	no cer	675	balance, 42 18
D. H. Mitchell	4	419	12	balance, 1 11
D. H. Mitchell	4	420	12	balance, 1 11
D. H. Mitchell	4	432	10	balance, 92
D. H. Mitchell	4	436	12	balance, 1 11
D. H. Mitchell	4	489	25	balance, 2 31
M. M. Miller	4	531	150	15 00
J. W. Myrick	4	no cer	150	15 00
Jas. G'Connell	4	247	50	balance, 3 12
Jas. G'Connell	4	248	50	balance, 3 12
Jas. G'Connell	4	249	25	balance, 1 56
Jas. G'Connell	4	250	25	balance, 1 56
Thos. H. Porter	4	162	10	balance, 63
Thos. H. Porter	4	no cer	105	balance, 6 56
I. Richards	4	406	75	balance, 3 75
John Reynolds	4	no cer	450	45 00
Wm. Smith	4	193	25	balance, 1 56
Wm. Smith	4	194	25	balance, 1 56
Wm. Smith	4	195	25	balance, 1 56
Wm. Smith	4	196	25	balance, 1 56
Wm. Smith	4	197	25	balance, 1 56
Wm. Smith	4	198	25	balance, 1 56
G. W. Spencer	4	524	75	7 50
O. W. Spencer	4	615	50	5 00
G. W. Spencer	4	626	18	1 80
O. W. Spencer	4	no cer	1357	135 70
F. Shoemaker	4	no cer	73	7 30
Jos. Ware	4	577	6	balance, 31
Jos. Ware	4	662	12	balance, 75
Jos. Ware	4	663	12	balance, 75
Jos. Ware	4	719	25	balance, 1 56
Jos. Ware	4	no cer	129	balance, 8 06

By order of the Board of Trustees.

J. P. VAN HAGAN, Secretary.

Office, No. 302 Montgomery street, No. 7 & 8 3d, floor.

San Francisco, May 12th, 1864. 20-4t

Wm. Mitchel Gold and Silver Mining Company, Silver Mountain, Amador county, California.

Notice.—There is delinquent upon the following described stock, on account of Assessments levied on the 16th day of February and the 29th day of March, 1864. the several amounts set opposite the names of the respective shareholders, as follows, to wit:

Names.	No. Certif.	No. Shares	Amt.
John L. Bowen	34	5	$5 00
S. C. Blake	53	15	15 00
S. C. Blake	55	6	5 00
Phillip Brady	61	5	5 00
N. Castle	50	10	10 00
N. Castle	97	6	6 00
W. Hollis	78	10	10 00
Henry Kline	69	10	10 00
Mrs. Julia Kenney	50	6	2 50
P. McGee	66	5	6 00
W. J. Moss	68	5	5 00
Wm. Walsh	95	25	25 00
Mrs. M. Wise	38	20	20 00

And in accordance with law, and an order of the Board of Trustees, made on the 4th day of May, inst. so many shares of each parcel of said stock as may be necessary, will be sold at the office of the Secretary, on Wednesday, the 15th day of June, 1864, at 12 o'clock, M., to pay said delinquent Assessments thereon, together with costs of advertising and expenses of the sale.

A. G. WGOD, Secretary.

20-4t 240 Montgomery street, No. 4, 2d floor.

Tornado Gold and Silver Mining Company, Colorado District, El Dorado Canon, Territory of Arizona. Office 620 Washington street, San Francisco.

Notice is hereby given, that, in accordance with the laws of the State of California, and in pursuance of an order of the Board of Trustees of the Tornado Gold and Silver Mining Company, duly made May 4th, A. D. 1864, there will be sold, at Auction, at the office of said Company, on June 13th, 1864, at 12 o'clock M. to the highest bidder, for cash, in U. S. coin, so many shares of the capital stock of this Company, standing in the names of the following parties, as may be necessary to pay Assessments No. 1 and 2, of fifty (50) cents each, and levied by the Board of Trustees, December 14th, 1863, and February 17th, 1864, and also balances and other dues, as specified herewith, together with all charges accruing from advertising and sale, unless all such dues are previously paid to the Secretary.

Names.	No. Certs.	No. Shares.	Amt.
H R Covey	6	25	$25 00
H R Covey	7	25	25 00
H R Covey	8	25	25 00
H R Covey	9	25	25 00
H R Covey	10	25	25 00
H R Covey	11	25	25 00
H R Covey	12	25	25 00
H R Covey	13	25	25 00
P J Gifford	not issued	200	200 00
C Hamilton	Amt due on 238		144 00

20-4t RODNEY CLARK, Secretary.

Royal Eagle and Cliff Gold and Silver Mining Company, Cold Hill Mining District, Storey county, Nevada Territory. —Office No. 493 Washington street, San Francisco.

Notice is hereby given, that, in accordance with an order duly made by the Board of Trustees of the Royal Eagle and Cliff Gold and Silver Mining Company, there will be sold, at Public Auction, by Jerome Rice & Co., at their salesrooms, No. 327 Montgomery street, San Francisco, on WEDNESDAY, June 15, 1864, at 12 o'clock M. to the highest bidder, for cash, in U. S. gold coin, so many shares of the capital stock of the said Company, standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay all assessments now delinquent thereon, together with cost of advertising and all accruing charges, unless previously paid:

Stockholders.	No. Asst.	No. Certificate.	Shares.	Amt.
Cesar Roch	3 and 4	10, 12, 16, 17	30	$45 00
A. Levy	3 and 4	8	5	7 50
L. Levy	3 and 4	23	5	7 50
C. Kornifeld	3 and 4	96, 199	33	49 50
P. E. P. Davan	3 and 4	181, 182, 189, 190, 191	103	154 50
Pierc Thlebant	4	31, 33, 34, 118	30½	31 00
C. Mery	4	39, 126, 148	18	18 00
Dominique Coutin	4	40, 112	12	12 00
Champet Resi	4	41, 94, 95, 138	30	30 00
P. X. Vilm	3 and 4	111, 112, 113	15	22 50
Mario Courier	3 and 4	44	10	15 00
J. Lamolle	4	52	15	15 00
B. Lamolle	4	53	12	12 00
E. Ward	2, 3 and 4	51	6	12 50
J. Mayer	4	55	15	16 00
A. Carro	4	57, 149	13	13 00
Reno Gourdon	3 and 4	64, 63	50	75 00
Alexis Lcroux	3 and 4	68	5	7 50
John Delbo	3 and 4	76	25	37 50
A. Reiso	4	80	25	25 00
H. Haricourt	3 and 4	84	8	12 00
Cordes Bertrand	3 and 4	85	17	25 50
Wm. Remy	3 and 4	101, 102	25	37 50
H. Boue	3 and 4	—	7	10 50
J. Larisilli	4	119	25	25 00
H. Van Every	3 and 4	130	20	30 00
J. Filliot	2, 3 and 4	—	5	12 50
J. H. Vlevier	3 and 4	—	22	33 00
A. Gattleker	3 and 4	—	25	37 50
A. Secretan	3 and 4	—	5	7 50
L. Noel	3 and 4	—	100	150 00
J. Carroll	2, 3 and 4	194	10	25 00
C. Duval	3 and 4	193	25	37 50
J. Austine	1, 2, 3 and 4	—	25	135 00
Victor Ausous	3 and 4	185	10	15 00
Caroline Petetin	2, 3 and 4	110	10	25 00
Alfred Turrel	3 and 4	140	10	15 00
Marie V. Hourcade	3 and 4	142	5	7 50
Caroline Goux	3 and 4	143, 168	8	12 00
P. J. Minot	3 and 4	144, 167	12	18 00
Napoleon Denis	4	155	10	10 00
Gazeax & Gollins	3 and 4	164	5	7 50
C. Aquilles	3 and 4	169	15	22 50
J. P. Cassady	4	161	10	10 00
L. M. Gufray	3 and 4	170	5	7 50
J. Maudot	3 and 4	183	25	37 50
D. Bigarel	4	186	10	10 00
John Dalmas	4	184	25	25 00
F. Roncati	3 and 4	195	15	22 50
M. Burnet	3 and 4	196	10	15 00
Th. Thlele	3 and 4	100	20	30 00
W. R. Maurice	3 and 4	201	16	23 50

By order of the Board of Trustees.

20-5t ARNAVON, Secretary.

San Francisco, May 14th, 1864.

Palmyra Consolidated Gold and Silver Mining Company, Palmyra District, Lyon county, N. T.—Office 625 Clay street, San Francisco, California.

Notice is hereby given, that, in accordance with an order duly made by the Board of Trustees of the above named Company, there will be sold, at Public Auction, at the office of the Company, on MONDAY, the 13th day of June, 1864, at 12 o'clock M., to the highest bidder, for cash, payable in United States coin, so many shares of the capital stock of said Company, standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay the assessment now due thereon, together with cost of advertising and all accruing charges, unless the same be previously paid:

Names.	No. Shs.	Amt.	Names.	No. Shs.	Amt.
G A Briar	500	$125 00	H H Linvill	10	$2 50
Sarah A Broder	10	2 50	N G Mitchell	25	6 25
J W Belden	25	6 25	John C Morrill	25	6 25
Charles Cook	5	1 25	N Nason	119	29 75
I Casper	10	2 50	H J Paine	50	12 50
Cecorge Cofran	590	147 50	A C Power	5	1 25
J H Dupaix	5	1 25	George W Swain	10	2 50
Julius Ehrenburg	10	2 50	A Staples	25	6 25
P Fechan	10	2 50	J Silversmith	10	2 50
H B Griffin	5	1 25	E U Sparkett	10	2 50
L D Gavitt	30	7 50	T A Talbert	400	100 00
H M Goodman	50	12 50	A A Van Voorhis	5	1 25
E W Harrison	5	1 25	R J Van Voorhis	5	1 25
Charles Hadsell	100	25 00	M Zejarkowsky	10	2 50
M J Henly	25	6 25	L Whipple	200	50 00
Charles Hirsfeld	5	1 25	S Wood	345	86 25
J Humphreys	295	73 75	W Wadsworth	50	12 50
D Kendrick	135	33 75	B C Whitman	100	25 00
A Konlzcke	5	1 25	John T Welcher	500	125 00
James Kennedy	25	6 25	W Langerman	550	137 50

By order of the Board of Trustees.

20-5t C. W. HAYDEN, Secretary.

Ophir of the Colorado No. 1 Gold and Silver Mining Company.—Office No. 620 Washington street, San Francisco.

Notice.—There is delinquent upon the following described stock, on account of assessments levied on the 20th day of August, 1863, of thirty (30) cents per share, on each and every share of the capital stock of said Company, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certs.	No. Shares.	Amt.
Charles Hamilton	54	200	$60 00
Charles Hamilton	55	50	16 00
Charles Hamilton	56	20	6 00
Charles Hamilton	57	20	6 00
Charles Hamilton	59	20	6 00
Charles Hamilton	60	20	6 00
Charles Hamilton	61	10	3 00
Charles Hamilton	62	10	3 00
Charles Hamilton	63	10	3 00
Charles Hamilton	64	10	3 00
Charles Hamilton	65	10	3 00
		380	$114 00

And in accordance with law, and an order of the Board of Trustees, made on the 7th inst., so many shares of said stock as may be necessary, will be sold, at Public Auction, at the office of the Company, June 11th, A D. 1864, at the hour of 12 o'clock M., to pay said delinquent assessments thereon, together with cost of advertising and expenses of sale, unless sooner paid. Location of claim, Colorado District, El Dorado Canon, Territory of Arizona.

RODNEY CLARK, Secretary.

San Francisco, May 7th, 1864. 20-4t

NOTICE.

Is hereby given that from and after June 15th, 1864, the Office and principal place of business of the Emmett Copper Mining Company, will be removed from San Francisco to Copperopolis, Calaveras County. San Francisco, May 14th, 1864.

M. G. ELMORE, Secretary.

Office, 645 Clay Street.

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Monitor District, Alpine County.

MESSRS. EDITORS:—Will you allow me a little space in your journal, (now acknowledged to be the best medium through which to reach all who are or wish to be interested in mines,) for the purpose of calling attention to this really interesting, and prospectively rich and prosperous mining region.

THE TOWN OF MONITOR

is situated in the very center of the mining district of the same name, eight miles south-west of Silver Mountain; Raymond eight, and Alpine three miles west; Markleeville, in Webster District, eight miles north-west; Mogul extending eight miles north and north-east, and including several thrifty camps; Silver King, a new but rich and rapidly populating district, ten miles to the south-east of us, are the other mining districts included in the new county of Alpine.

We are thus placed in the very center of population, with a climate unsurpassed in salubrity, free from those driving winds common along the larger water courses of the eastern slope; water and timber abundant. A company has been formed, and a ditch and flume nearly completed for bringing in the water of the creek from above the mines, thus ensuring to us even, after the opening of the mines, and the muddying of the creek here, pure water, limpid and sweet.

Business men and others seeking a solution of the question, "Where is to be the county seat of the new county of Alpine?" seem to have arrived at a legitimate conclusion, and are building rapidly.—Some two hundred buildings are already in process of completion, from the grading of lots to the finish of the structures. The lack of lumber is greatly felt, but several saw mills in addition to those already running, will soon be in operation, when it must be plentiful and cheap. But I am neglecting

OUR MINES.

As I first stated, they are prospectively rich. We that have for more than a year prospected and examined, need not that bullion be produced ere we arrive at a conclusion so hopeful. I confess that at this time, after so many have burned their fingers in mining operations, this conclusion is not sufficiently legitimate to enable us to bring capital to our aid in opening our mines. But if I am not very much mistaken, the signs of the times betoken an influx of seekers after pay rock; permanent ledges and advantageous locations cannot be withstood. We feel much confidence in the supposition that our mines are

ON THE COMSTOCK RANGE.

True, I may incur the risk of being deemed presumptuous, and my theory far fetched; but when I exhibit rock and ore that I know came from ledges here to experienced judges from Virginia and Gold Hill, not in one case but in hundreds they either accuse me of trying to "play" them with Gould & Curry, and pass on in a "huff," or like sensible men ask where it came from, and become the owners of feet therein. When, after finding the general course of the ledges here, I ascend Monitor Peak, compass in hand, and have pointed out to me Mount Davidson, and, upon trial, find this course to lead immediately to the great dividend paying mines thereabouts, I put this and that together, and cry, "Eureka."

I might mention innumerable assays and workings of rock taken out here, but this is already long enough, and as we have about twenty claims now being worked, and are to have an arastra, coupled with a Chili silver mill, in operation here by an experienced Mexican in a few days, I will delay particularizing until my next. MONITOR.

MONITOR, Alpine Co., Cal.

For Sale—A Useful Invention.—EDITORS PRESS:—I wish to call the attention of mill owners and manufacturers of mining machinery, through your columns, to a device of my invention for feeding the ores or materials to be crushed, in the common stamp mill, so much in use in this country. It is simple and efficient, doing the work with far more regularity than can be done by hand; it costs but little, and requires no more attention than can be given to it by some one about the mill, without neglecting his other duties. As I have not the means to introduce the above, I would like to enter into arrangements with some one to aid me, and share the profits of the invention. I would add, it has stood a working test under my supervision, and has likewise received the approbation of Scientific men.

Any communications on the subject, addressed to J. C. H., El Dorado, El Dorado Co., Cal., will receive prompt attention. 21-tf

RICHARD WEGENER,
Accountant, Mining Secretary,
AND GENERAL AGENT.
No. 204 Montgomery St., Southeast cor. Montgomery & Pine Sts.,
11-m SAN FRANCISCO.

MINING AND SMELTING COMPANY.—The California Mining, Smelting, and Beneficiating Company, filed their certificate of incorporation in the County Clerk's office on Saturday last. The object of the corporation is to carry on the business of assaying, smelting, and beneficiating ores by works to be established in the City of San Francisco, and for mining in California, Lower California, and Arizona Territory. The amount of capital stock of the Company shall be $1,500,000, divided into shares of $300 each. The principal place of business will be in San Francisco, but the Company will have a Transfer Office and Transfer Secretary in New York. The trustees are E. C. McComb, J. B. Crockett, Henry Sage, James Bowman, Charles Spencer, R. H. Waller, George C. Waller, Chas. H. Reynold, and Stephen Franklin.

Table Mountain Copper Mining Company.—Notice is hereby given, that the Annual Meeting of Stockholders of the Table Mountain Copper Mining Company, Stanislaus District, Calaveras county, for the election of Trustees, amendment of By-Laws, and the transaction of any other business that may come before the meeting, will be held, at the office of the Company, No. 645 Clay street, San Francisco, on Monday, the 13th day of June next, at 7½ o'clock P. M. M. C. ELMORE, Secretary.

San Francisco, May 21st, 1864. 21-1d

Summit Pass Gold and Silver Mining Company, Tuolumne County, California.

The regular ANNUAL MEETING of the Stockholders of said Company for the election of Trustees, will be held at Room 16, No. 528 Clay street, on the second TUESDAY of June, at 7½ o'clock, P. M.

T. B. LUDLUM, Secretary.

San Francisco, May 14th, 1864. 21-3t

Ophir of the Colorado Silver Mining Company, El Dorado Canon, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of May, 1864, an Assessment of two dollars per share was levied upon the Capital Stock of said Company, payable on the 17th day of May, 1864, in United States gold coin to the Secretary.

Any stock upon which said Assessment shall remain unpaid on the 18th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. T. A. MUDGE, Secretary.

21-3t Office, 528 Clay street, San Francisco.

Joe Douglass Gold and Silver Mining Company, Reese River District, Lander county, Nevada Territory.

Notice is hereby given, that, at a meeting of the Board of Trustees of said Company, held on the 18th day of May, 1864, an assessment of 50 cents per share was levied upon the capital stock of said Company, payable on the 19th day of May, 1864, in United States gold coin, to the Secretary, or to the Superintendent, JOSEPH WHITE, at Austin, N. T.

Any stock upon which said assessment shall remain unpaid on Saturday, the 18th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 2d day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

ROBERT T. POLK, Secretary.

21-4t Office, No. 35 Government House, San Francisco.

Great Central Tunnel Company, Virginia City, Nevada Territory.

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 17th day of May, 1864, an assessment of forty cents per share was levied upon the Capital Stock of said Company, payable immediately, in United States gold coin, to A. C. Nichols, No. 326 Clay street, San Francisco, or MELVILLE KELSEY Virginia City.

Any Stock upon which said assessment shall remain unpaid on Saturday, the 18th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 6th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

21-4t MELVILLE KELSEY, Sec'y., Pro. tem.

Mt. Zion Gold, Silver and Copper Mining Company, Clayton District, Contra Costa county, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of May, 1864, an Assessment No 12, of fifty cents per share was levied upon the Capital Stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at his office, 240 Montgomery street San Francisco.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 18th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday the 6th day of July, 1864, to pay the delinquent Assessment, together with the costs of Advertising and expenses of the sale. By order of the Board of Trustees.

A. C. WOOD, Secretary.

Office, No. 240 Montgomery street, No. 4, 2d floor. 21-4t

Nevada Copper Mining Company, Nevada County, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 14th day of May, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable immediately in U. S. gold coin, to the Secretary, at the office of the Company, or to the Superintendent, E. W. MASLIN, at Grass Valley.

Any stock upon which said Assessment shall remain unpaid on the 18th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 2d day of July, 1864, to pay the delinquent Assessment, together with the costs of Advertising and expenses of sale.

RICHARD S. CLARK, Secretary.

Office, 610 Merchant street, San Francisco. 21-4t

Point Arena Petroleum Mining Company.—The Shareholders of the Point Arena Petroleum Mining Company are hereby notified that the Annual Meeting, for electing officers and other general business, will be held, at the Secretary's office, corner of Sansome and Jackson streets, San Francisco, on the 25th day of June, 1864, at 7 o'clock P. M. The Stock is now in the Secretary's hands, ready to be issued to all parties entitled to the same.

D. S. CUTTER, Secretary. J. R. TOBIN, President.

San Francisco, May 20, 1864. 21-4t

Augusta Gold and Silver Mining Company, Augusta District, Lander county, N. T. Office, 405 Front street, San Francisco, May 20th, 1864.

Notice is hereby given, that at a meeting of the Trustees of said Company, held November 2d, 1863, an Assessment, No. 1, of twelve and one-half (12½) cents per share was levied upon the Capital Stock of said Company. Also at a meeting of the Trustees of said Company, held March 9th, 1864, an Assessment, No. 2, of twelve and one-half (12½) cents per share was levied upon the Capital Stock of said Company. Both Assessments, No. 1 and No. 2, payable immediately in United States gold coin, to the Treasurer, at the office of said Company, or to John Moffet, Superintendent of said Company, at the mine, in Nevada Territory.

Any stock upon which said Assessments shall remain unpaid on the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 25th day of July, 1864, to pay the delinquent Assessments, together with costs of advertising and expenses of sale.

21-4t. JOHN SHAW, President.

Sisters Gold and Silver Mining Company, Augusta District, Lander county, N. T. Office, 405 Front street, San Francisco, May 20th, 1864.

Notice is hereby given, that at a meeting of the Trustees of said Company, held October 17th, 1863, an Assessment, No. 1, of fifteen (15) cents per share was levied upon the Capital Stock of said Company. Also at a meeting of the Trustees of said Company, held March 9th, 1864, an Assessment, No. 2, of fifteen (15) cents per share was levied upon the Capital Stock of said Company. Both Assessments, No. 1 and No. 2, payable immediately, in United States gold coin to the Treasurer, at the office of said Company, or to John Moffet, Superintendent, at the mine, in Nevada Territory.

Any stock upon which said Assessments shall remain unpaid on the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 25th day of July, 1864, to pay the delinquent Assessments, together with costs of advertising and expenses of sale.

21-4t J. FRANK MILLER, President.

Rubicon Gold & Silver Mining Company No. 1.
Rubicon Gold & Silver Mining Company No. 2.
Rubicon Gold & Silver Mining Company No. 3.
Rubicon Gold & Silver Mining Company No. 4.—Keys District, Mono county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Companies, held on the 18th day of April, 1864, an Assessment of ten cents per share was levied upon the capital stock of said Companies, payable immediately, in U. S. gold coin, to the Secretary, at the office of the Companies, No. 302 Montgomery street, San Francisco. Any stock upon which said Assessment shall remain unpaid on Saturday, the 21st day of May, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on FRIDAY, the 10th day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees,

J. P. VAN HAGAN, Secretary.

Office, Rooms 7 and 8, third floor, No. 302 Montgomery street, San Francisco. 17-4t

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Postponement.

Notice is hereby given that at a meeting of the Board of Trustees of the above named Companies held on the 17th day of May, 1864, it was ordered that the time for the publication of stock upon which the assessments have not been paid, levied April 18th, 1864, be extended from the 21st to the 28th day of May, 1864, and that the sale of delinquent stock under the above assessment be extended from the 10th to the 17th day of June, 1864. By order of the Board of Trustees.

J. P. VAN HAGAN, Secretary.

21-1t Office, No. 302 Montgomery Street, rooms, 7 & 8 third floor

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Rose Linda Mining & Manufacturing Company, Mokelumne Mining District, Amador County, Cal.—Notice is hereby given that at a meeting of the Trustees of the above Company, held on the 11th day of April, 1864, an assessment of Fifty (50) cents per share was levied upon the Capital Stock of said Company, payable in Gold and Silver coin on the 11th day of May next, to the Secretary, at the Office of the Company, 509 Clay St., Room No. 2.

Any Stock upon which said assessment shall remain unpaid on the 11th day of May next, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 26th day of May 1864, at the Office of the Company 509 Clay St., to pay the delinquent assessment, together with the costs of advertising and expenses of sale. HENRY HALE, Sec'y.

San Francisco, April 11th, 1864, 16-4t

By order of the Board of Trustees the time for the payment of the above assessment has been extended ten days, on expiration of which time, 21st of May, the Delinquent list will be published.

HENRY HALE, Secretary.

San Francisco, May 10th, 1864. 20-td

By order of the Board of Trustees the time for the payment of the above assessment has been extended ten days, on expiration of which time, 1st of June, the Delinquent list will be published.

HENRY HALE, Secretary.

San Francisco, May 21st, 1864. 21-td

Dissolution of Copartnership.

The Copartnership heretofore existing between George Gibbons and W. J. Woodley is this day, the 20th of April, 1864, dissolved by non-agreement of the above parties.

CAUTION.—The public against negotiating or purchasing any mining stock heretofore existing under and in said partnership.

GEORGE GIBBONS.

Santa Catalina Island, Los Angeles Co., 20th April, 1864. 21-1t*

MINING NOTICES—MAY 7th.

Itasca Silver Mining Company, Kelly Ledge, Reese River District, Lander county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of May, 1864, an Assessment of forty cents per share was levied upon the Capital Stock of said Company, payable on the 7th day of May, 1864, in United States gold coin, to the Secretary, No. 11, Government House, cor. Sansome and Washington streets, San Francisco, or to Charles Wray, Superintendent, Austin, Lander county, N. T.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 22nd day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. EDW. QUACKENBUSH, Secretary.

Office, No. 11 Government House, cor. Sansome and Washington streets, San Francisco. 19-4t

Wall Street Gold and Silver Mining Company, Reese River District, Lander County, N. T.

Notice is hereby given that at a meeting of the Board of Trustees of said company, held on the 31 day of May, 1864, an assessment of fifty cents per share was levied upon the capital stock of said company, payable immediately, to the Secretary of the company, in U. S. Gold Coin.

Any stock upon which said assessment shall remain unpaid on Saturday the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday the 18th day of June, 1864, to pay the delinquent assessment, together with costs of advertising, and expenses of the sale. By order of the Board of Trustees.

W. H. DUDLEY, Sec'y.

19-4t Office, No. 528 Montgomery Street, San Francisco.

Green Monster Copper, Gold and Silver Mining Company, Inyo Mining District, Tulare county, California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 5th day of May, 1864, an Assessment of one dollar per share was levied upon the Capital Stock of said Company, payable immediately, to the Secretary, at his office, No. 23 Montgomery Block, San Francisco.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 22d day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale.

ISAAC N. THORNE, Secretary.

Office, No. 23 Montgomery Block, San Francisco. 19-4t

Illinois Gold & Silver Mining Company, Smoky Valley District, Lander county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 2d day of May, 1864, an Assessment of fifty (50) cents per share was levied upon the Capital Stock of said Company, payable on the 7th day of May, 1864, in United States Gold Coin, to the Secretary, or to RALPH BROWN, Superintendent, at the Mine.

Any Stock upon which said assessment shall remain unpaid on Saturday the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 18th day of June 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

GEO. C. HARRIMAN, Sec'y.

19-4t Office, 632 Clay Street, San Francisco.

Noonday Copper Gold & Silver Mining Company, Clayton District, Contra Costa County California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 5th day of May 1864, an assessment, No. 5, of 20 cents per share was levied upon the capital stock of said Company, payable immediately, in United States Coin, to the Secretary, at the Office of the Company, corner of Bush and Kearny streets, San Francisco, California.

Any Stock upon which said assessment shall remain unpaid on the 4th day of June next, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold at the Office of Messrs Jerome Rice & Co., No. 327 Montgomery Street, San Francisco, on Wednesday, June 22nd, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of sale. L. E. MORGAN, Sec'y.

19-4t Office, Corner of Bush and Kearny Sts., San Francisco.

Great Central Mining Company, Weaver District, Arizona Territory.

Notice is hereby given, that there are delinquent upon the following described stock, on account of Assessment No. Two (2), levied Oct. 21st, 1863; Assessment No. Three (3), levied Dec. 26th, 1863; and Assessment No. Four (4), levied Feb. 12th, 1864, the several amounts set opposite the names of the respective shareholders, as follows:—

Name.	No. Cert.	No. Asst.	No. Shares.	Amt.
Battles, W W	65	2, 3 and 4	50	$37 50
Battles, W W	08	2, 3 and 4	25	18 75
Gerry, S R	67	3 and 4	25	12 50
Lawlor, Jos	129	3 and 4	20	10 00
Morrill Bros	135	3 and 4	50	25 00
Mullen, W E	126	4	10	2 50
Nagle, Geo D	66	4	100	25 00
O'Brien, W	87	4	25	6 25
O'Brien, W	89	4	15	3 75
O'Brien, W	90	4	10	2 50
Rockwell, E A	114	2, 3 and 4	20	15 00
Rockwell, E A	115	2, 3 and 4	10	7 50
Rockwell, E A	116	2, 3 and 4	10	7 50
Rockwell, E A	117	2, 3 and 4	10	7 50
Seibel, Fred	83	4	25	6 25
Seibel, Fred	84	4	25	6 25
Seibel, Fred	85	4	15	3 75
Warfield, Alex	not yet issued.	3 and 4	100	50 00
Wigmore, John	50	2, 3 and 4	30	22 50

And in accordance with the laws of the State of California, and an order of the Trustees, made on the 28th day of March, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on WEDNESDAY, the 8th day of June, A. D. 1864, to pay said delinquent assessment thereon, together with the costs of advertising and the expenses of sale. RICHARD S. CLARK, Secretary.

19-5t Office No. 610 Merchant street, San Francisco.

Rubicon Gold and Silver Mining Company, No 2, Location of Mine, Keys District, Owens' River, Mono County, California.

Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Rubicon Gold & Silver Mining Company, No. 2, there will be sold, at public auction, to the highest bidder, for cash in United States Gold Coin, on the 7th day of June, 1864, at 11 o'clock, A. M., of that day, at the office of the Company, No. 7 & 8 third floor, No. 302 Montgomery street, San Francisco, so many shares of the capital stock of the Company, standing in the names of the following persons or shareholders, as will be necessary for the payment of assessment No. 4 of ten (10) cents per share, duly levied thereon February 27th, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said assessment and accruing charges are previously paid.

Names.	No. Asst.	Certif.	Shares.	Am't Due.
Bland Adam	4	no cer	150	balance, $0 38
Bush Henry	4	no cer	150	15 00
Cook Sarah	4	no cer	125	balance, 0 11
Carter W P	4	no cer	75	7 50
Davis W G	4	493	55	5 50
Davis W G	4	604	25	2 50
Davis W G	4	605	25	2 50
Davis W G	4	606	25	2 50
Davis W G	4	607	25	2 50
Davis W G	4	608	25	2 50
Davis W G	4	609	25	2 50
Davis W G	4	602	12	1 20
Davis W G	4	no cer	23	2 80
Dond Philo	4	no cer	131	12 12
Diggins Wesley	4		1500	150 00
Genung A M	4	no cer	150	balance, 9 37
Jeffress John	4	216	15	balance, 93
Jeffress John	4	242	0	balance, 37
Jeffress John	4	243	6	balance, 37
Jeffress John	4	244	12	balance, 75
Jeffress John	4	no cer	93	balance, 5 81
Kirby W L	4	315	50	balance, 3 13
Kirby, W L	4	316	25	balance, 1 50
Kirby, W L	4	no cer	35	balance, 2 15
Knoedler, John	4	246	12	balance, 75
Knoedler, John	4	247	50	balance, 8 13
Knoedler, John	4	346	5	balance, 31
Knoedler, John	4	no cer	58	balance, 3 62
Kimball, M H	4	no cer	75	balance, 2 50
Lovejoy, A J	4	71	25	balance, 1 66
Lovejoy, A J	4	262	12	balance, 75
Lane, Levi C	4	14	100	balance, 6 25
Lane, Levi C	4	15	25	balance, 1 56
Wheeler, Martin	4	5	25	balance, 1 50
Wheeler, Martin	4	35	30	balance, 1 87
Wheeler, Martin	4	40	25	balance, 1 50
Wheeler, Martin	4	41	25	balance, 1 56
Wheeler, Martin	4	no cer	675	42 18
Mitchell, D H	4	426	25	balance, 2 31
Mitchell, D H	4	430	12	balance, 1 11
Mitchell, D H	4	437	12	balance, 1 11
Mitchell, D H	4	444	10	balance, 92
Mitchell, D H	4	447	12	balance, 1 11
Mitchell, D H	4	497	25	balance, 2 31
Myrick, J W	4	no cer	150	15 00
Miller, M M	4	587	150	15 00
O'Connell, James	4	257	50	balance, 3 12
O'Connell, James	4	258	50	balance, 3 12
O'Connell, James	4	259	25	balance, 1 50
O'Connell, James	4	260	25	balance, 1 50
Porter, Thos H	4	173	10	balance, 62
Porter, Thos H	4	no cer	105	6 50
Reynolds, Jno	4	no cer	450	45 00
Richards, I	4	423	80	balance, 4 20
Smith, Wm	4	201	25	balance, 1 56
Smith, Wm	4	202	25	balance, 1 50
Smith, Wm	4	203	25	balance, 1 56
Smith, Wm	4	204	25	balance, 1 56
Smith, Wm	4	205	25	balance, 1 56
Smith, Wm	4	200	25	balance, 1 56
Spencer, O W	4	618	50	5 00
Spencer, O W	4	600	18	1 80
Spencer, O W	4	no cer	1357	135 70
Shoemaker, F	4	721	4	40
Shoemaker, F	4	725	65	6 50
Ware, Jos	4	668	12	balance, 75
Ware, Jos	4	669	12	balance, 75
Ware, Jos	4	718	25	balance, 1 56
Ware, Jos	4	no cer	129	balance, 8 06

By order of the Board of Trustees.

J. P. VAN HAGAN, Secretary.

Office No. 302 Montgomery street, No. 7 and 8, third floor. San Francisco, May 5th, 1864. 19-1t

Logan Gold and Silver Mining Company, Office, No. 528 Clay street, San Francisco, Cal. April 29th, 1864.

Notice is hereby given that in accordance with an order duly made by the board of Trustees of the Logan Gold and Silver Mining Company, there will be sold at public auction, by Jerome Rice & Co., at their salesroom, No. 327 Montgomery street, San Francisco, on Wednesday, June 8th, 1864, at 12 o'clock, M. to the highest bidder for cash, in Gold Coin, so many shares of the capital stock of the said company, standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay all assessments, now delinquent thereon, together with costs of advertising and all accruing charges, unless previously paid.

Names.	No. Shares.	No. Certif.	Asst's.	Am't due
Evan R. Evans	25	4	2nd	$25 00
Ellen A Spoor	10	15	2nd	10 00
R. McMurray	70	33	2nd	bal 51 00
E. S. Roberts	100	36, 121 to 124	2nd	100 00
Watkins Price	46	138	2nd	46 00
Thomas Waters	71	139	2nd	71 00
R. W. Myers	9	78, 97, 108	2nd	9 00
John C. Hay	10	89	2nd	10 00
John Jones	108	110, 113, 114	2nd	108 00
D. Temple	7	111	2nd	7 00

By order of the Board of Trustees.

19-5t B. W. MUDGE, Sec'y.

Wallpi Gold and Silver Mining Company, Moss Lode, San Francisco District, Arizona Territory.

There is delinquent upon the following described stock, on account of assessments levied on the 21st day of March, 1864, the several amounts set opposite the names of the respective shareholders as follows:

Names.	Certifs.	Shares.	Amount
C. H. Doriot	17, 18, 19, 20, 21, 22, 23, 24	200	$100 00
E. Y. Mason	3, 4, 5, 6, 7, 8, 38, 39, 40	175	87 50
Wm. P. Pool	34, 36	10	5 00

And in accordance with law, and an order of the Board of Trustees made on the 21st day of April 1864, so many shares of each parcel of said stock as may be necessary will be sold at the salesroom of John Middleton & Son, No. 400 Montgomery street, San Francisco, on Saturday, June 11th, 1864, at 12 o'clock, M., of said day to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

W. AUGUSTUS KNAPP, Sec'y.

19-5t 620 Washington street, Room, 3.

Henry & Barnard Consolidated Gold, Silver and Copper Mining Company, Weaver District, Arizona Territory.

Notice.—There are delinquent, upon the following described stock, on account of Assessment levied on the ninth (9) day of March, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shares.	Amt.
S P Taylor,	194	2	50
S P Taylor,	195	2	50
S P Taylor,	196	2	50
S P Taylor,	197	2	50
S P Taylor,	198	2	50
S P Taylor,	201	2	50
S P Taylor,	212	2	50
S P Taylor,	213	2	50
S P Taylor,	215	2	50
S P Taylor,	216	2	50
S P Taylor,	219	2	50
S P Taylor,	222	2-5	10
S P Taylor,	300	5	$1 25
S P Taylor,	305	10	2 50
S P Taylor,	306	10	2 50
S P Taylor,	307	10	2 50
S P Taylor,	308	10	2 50
S P Taylor,	312	10	2 50
S P Taylor,	313	10	2 50
S P Taylor,	315	5	1 25
S P Taylor,	316	5	1 25
S P Taylor,	317	5	1 25
S P Taylor,	318	5	1 25
S P Taylor,	319	5	1 25
S P Taylor,	320	5	1 25
S P Taylor,	321	5	1 25
S P Taylor,	323	5	1 25
S P Taylor,	324	5	1 25
S P Taylor,	325	5	1 25
S P Taylor,	326	25	6 25
S P Taylor,	329	25	6 25
Wallace Everson,	60	10	2 50
Wallace Everson,	64	100	25 00
Wallace Everson,	67	5 1-5	1 30
John Landers,	101	50	12 50
John Landers,	102	50	12 50
John Landers,	103	10	2 50
John Landers,	104	20	5 00
John Landers,	106	5	1 25
John Landers,	107	15 1 5	3 80
Geo W Barnard,	22	20 4-5	5 20
Geo Bridges,	421	2	50
Geo Roland,	411	2	50

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of April, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on the first (1) day of June, 1864, at 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

GEO. W. GILDERSLEEVE, Secretary.

19-4t Office 334 Montgomery street, San Francisco.

Smith & Martin Gold and Silver Mining Company, Reese River District, Lander county, N. T. Office, No. 35 Government House, San Francisco, Cal.

Notice is hereby given that in accordance with the Laws of the State of California, and an order duly made by the Board of Trustees of the Smith & Martin Gold and Silver Mining Company, there will be sold at Public Auction, at the salesrooms of Messrs. Cobb & Sinton, No. 405 Montgomery street, San Francisco Cal., on Saturday, June 13th, A. D. 1864, at 11 o'clock A. M, of that day to the highest bidder, for cash, in United States coin, so many shares of the Capital Stock of said Company standing in the names of the following persons as will be necessary for the payment of an Assessment of fifty cents per share, duly levied thereon by the Board of Trustees, on the 9th day of March, A. D. 1864, together with the expenses of advertisement and sale, to wit, &c,

Names.	No. Certificates.	No. Shares.	Amt.
Henry Smith,	Cert—13, 14 Shs—10, 10	20	$10 00
George Warren,	23	5	2 50
R Martin,	Cert—31, 40 Shs—10, 7½	17½	8 75
F C Robinson,	Cert—49, 50, 51, 53 Shs—20, 20, 10, 5	55	27 50
J A Maynard,	Cert—56, 57, 58, 59, 61 Shs—20, 20, 10, 10, 5	65	32 50
J Leffingwell,	69	20	10 00
A E Minnica,	Cert—62, 63, 64, 67 Shs—20, 20, 20, 5	65	32 50
William Rose,	Cert—76, 77 Shs— 5, 5	10	5 00
F F Hatfield,	Cert—82, 83, 84 Shs—10, 5, 7½	22½	11 25
Samuel Donnelly,	Cert—93, 121 Shs—7½, 2½	10	5 00
William Murphy,	93	5	2 50
E S Davis,	Cert—97, 98, 99 Shs—10, 5, 7½	22½	11 25
William Calnan,	100	9	4 50
David McDaniel,	7	15	7 50
C F Morrell,	10	10	5 00
Robert Rankin,	1	15	7 50
I W Doss,	101	5	2 50
Thomas McCartney,	118	2½	1 25
J G Dows,	122	10	5 00
W C Daggett,	Cert—125, 128, 132 Shs— 5, 5, 5	15	7 50
R S Cassinger,	127	10	5 00
W W Nixon,	130	10	5 00
W Wallin,	134	10	5 00
Isaac S Titus,	135	10	5 00

19-4t ROBERT T. POLK, Secretary.

Union Gold and Silver Mining Company,

Russ District, Tulare County, California.

NOTICE.—The Stockholders of the above named Company, are requested to hand in to the Secretary, their Certificates of Stock in the above named Company without delay, and receive in lieu thereof, Certificates of Stock of the Eclipse Gold and Silver Mining Company, as per resolution unanimously adopted at the Stockholder's meeting, held April 26th, 1864.

By order of the President. JAS. C. NORRIS, Sec'y.

San Francisco, May 3d, 1864. [19-4t] Office, 439 Jackson street.

Sore Throat, Cough, Colds, and similar troubles, if suffered to progress, result in serious Pulmonary, Bronchial and Asthmatic affections; oftentimes incurable.

BROWN'S BRONCHIAL TROCHES

are compounded so as to reach directly the seat of the disease and give almost instant relief.

Agents for California, REDINGTON & Co., San Francisco. 19-1m

MINING NOTICES—APRIL 30th.

Scorpion Silver Mining Company, Virginia

District, Nevada Territory.

Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Scorpion Silver Mining Company, there will be sold, at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery St., San Francisco, on Saturday, May 28, 1864, at 11 o'clock A. M. of that day, to the highest bidder for cash, in U. S. coin, so many shares of the capital stock of said Company, standing in the names of the following shareholders, as will be necessary for the payment of an assessment of twenty-five cents per share, duly levied thereon, by the Board of Trustees, on the 21st day of March, A. D. 1864, and assessments previous thereto, together with the expenses of advertisement and sale, to wit:

Names.	Shares.	Assessments (No 20	No 21	No 22	No 23	No 24	No 25.	Amt due.
B Bayerque	12						$3 00	$3 00
J T Hartwell	16					4 00		4 00
J L Bufford	59				14 75	14 75	14 75	44 25
S F Bufford	24						6 00	6 00
C Broat	10						2 50	2 50
F Boilleau	10			2 50	2 50	2 50	2 50	10 00
Mrs L G Baker	10	2 50		2 50	2 50	2 50	2 50	12 50
S E Barnard	1			25		25		25
Rebecca Bones	4					1 00	1 00	2 00
S L Cotran	20	5 00		5 00	5 00	5 00	5 00	25 00
L Chopard	2				50	50	50	1 50
L E Coleman	2					50	50	1 00
Chas Clayton	5						1 25	1 25
C Chevallier	16				4 00	4 00	4 00	12 00
P Crozet	19						4 75	4 75
W D Dyer	12			3 00	3 00	3 00	3 00	12 00
— Deuiech	3						75	75
A Esnault	24						6 00	6 00
M Eldred Jr	113						28 75	28 75
A Finance	50						12 50	12 50
E D Fensier	8			50	50	50	2 00	3 50
H Fensier	4						1 00	1 00
C Gignoux	10						2 50	2 50
A Gerhnkle	5						1 25	1 25
F Henderson	228				57 00	57 00	57 00	171 00
J T Heluken	10						2 50	2 50
H Hentsch	10			2 50	2 50	2 50	2 50	10 00
B A Hendrickson	5						1 25	1 25
L Heywood	5						1 25	1 25
J R Hughes	12				3 00	3 00	3 00	9 00
N T Johnson	12			2 50			2 50	5 00
John Kelly	49				6 00	12 25	12 25	30 50
J B Lutargne	2			50	50	50		2 00
A J McCabe	101					25 00	25 00	50 00
W W Morgan	2			50	50	50	50	2 00
John McKewen	9						2 25	2 25
John Paine	3	75	75	75	75	75	75	4 50
Eneline A Paine	3	75	75	75	75	75	75	5 00
M Pratt	2						50	50
T Robinson	100						25 00	25 00
Robt Sherwood	200						50 00	50 00
Herman Smith	10						2 50	2 50
Emma R Schieper	1						25	25
T G Venard	24					6 00	6 00	12 00
Henry Vollers	5						1 25	1 25
G Venard	20					5 00	5 00	10 00
E D Waters	12						3 00	3 00
Eliza A Waters	12						3 00	3 00
Ella Waters	1						25	25

By order of the Trustees.

W. H. MARTIN, Secretary.

San Francisco, April 28, 1864. (18-4t) 627 Clay street.

Palma Silver Mining Company, Locality of Mine,

District of Ures, State of Sonora, Mexico.

Notice.—There are delinquent, upon the following described stock on account of assessment No. 2, levied February 15th, 1864, and as sessment No. 3, levied on the 25th day of March, 1864, the several amounts set opposite the names of the respective shareholders a follows:

Names.	Asst.	No. Cert.	No. Shs.	Amts
J. O'Dell	2	19	20	$20 00
J. O'Dell	3	19	20	40 00
F. Dodge	2	20	20	20 00
F. Dodge	3	20	20	40 00
Henry Chester	2	21	10	10 00
Henry Chester	3	21	10	20 00
Thos. Miller	2	23	10	10 00
Thos. Miller	3	23	10	20 00
W. C. McElharan	2	25	10	10 00
W. C. McElharan	3	25	10	20 00
David Fogerty	2	26	10	10 00
David Fogerty	3	26	10	20 00
John Lockwood	2	29	5	5 00
John Lockwood	3	29	5	10 00
J. H. Stone	2	78, 79, 80, 82, 83	85, 86, 70	70 00
J. H. Stone	3	78, 79, 80, 82, 83	85, 86, 70	140 00
Jesse Gelb	2	31	20	20 00
Jesse Gelb	3	31	20	40 00
Paul Cerno	2	32	25	25 00
Jos. Van Doren	3	15	100	200 00
H. A. Wyman	3	22	10	20 00
A. B. Bronson	3	30	25	50 00
James Hulburt	3	141	15	30 00
Geo. A. Moore	3	71, 87	20	40 00
J. W. Sargent	3	33, 34, 35, 36, 37, 38, 39, 30		150 00
A. Z. Vallean	3	140	10	20 00
Geo. R. Phillips	3	147, 148, 149	15	30 00

And in accordance with law, and an order of the Board of Trustees, made on the 25th day of March, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the sales room of Jerome Rice & Co., on the 30th day of May, 1864, at the hour of 12 o'clock, M., of said day, to pay said delinquent assessment thereon, together with costs of Advertising and expenses of the Sale.

GEORGE L. FAULKNER, Sec'y.

18t5t Office, 411 Clay Street, San Francisco.

Gobernadora Silver Mining Company, San An-

tonio District, Lower California.—Office, 625 Clay street, San Francisco, California.

Notice is hereby given, that in accordance with an order duly made by the Board of Trustees of the Gobernadora Silver Mining Company, there will be sold, at Public Auction, by Jerome Rice & Co., Auctioneers, at their salesroom, No. 327 Montgomery street, San Francisco, on MONDAY, May 30th, 1864, between the hours of 11 A M. and 2 P. M. of that day, to the highest bidder for cash, in United States coin, so many shares of the capital stock of Said Company, standing in the names of the hereinafter mentioned stockholders as will be necessary to pay all assessments now due thereon, together with cost of advertising and all accruing charges, unless the same be previously paid:

Names.	No. Shs.	Amt due	Names.	No. Shs.	Amt due.
John Brazer	1'0	$78 00	W. H. Knapp	105	$63 00
William Foss	5	3 00	H. Kilham	50	30 00
B. F. French	10	6 00	Chas. McDonald	20	12 00
N. E. Grimes	10	6 00	Thos. McDonough	5	3 00
Wm. Hazeltine	18	10 80	Chas. F. Nottle	20	12 00
A. H. Jordan	50	30 00	J. W. Sprague	120	72 00
R. A. Sanford	3	1 80			

By order of the Board of Trustees.

18-5t C. W. HAYDEN, Secretary.

Pena Silver Mining Company.—Location of Mine, Lower

California.—Office of Company, 411 Clay street, San Francisco.

Notice.—There are delinquent, upon the following described stock of the above named Company, on account of Assessment No. 3, levied on the 25th day of November, 1863, and Assessment No. 4 levied on the 23d day of March, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Assts.	No. Cert.	No. Shs.	Amt.
G. E. Schenck	3	75	3½	$ 5 25
B. A. Bidlack	3 and 4	65	16 2-3	$25 01
J. G. Dow	3 and 4	50	10	25 00
J. G. Dow	do	51	10	25 00
J. G. Dow	do	52	10	25 00
J. G. Dow	do	53	3 1-3	8 33
J. G. Dow	do	148	16 2-3	41 67
James H. Stone	4	112	22 1-3	22 33
James H. Welch	4	130	26 1 3	26 33
G. W. Botts	4	142	8 1 3	8 33
Geo. B. Lillie	4	159	14 2-3	14 67
J. F. Dorland	4	89	8 1-3	8 33
F. G. Norman	4	92	8 1-3	8 33
F. G. Norman	4	170	0 1-3	0 33
I. N. Thorne	4	83	38 1 3	38 33
J. W. Sargent	4	58	16 2 3	16 67
J. W. Sargent	4	59	16 2-3	16 67
Timothy Sargent	4	60	16 2-3	16 67
Mrs. H. A. R. Carter	4 (not iss'd)	155	3 1-2	3 00
David Ross	4	80	9 2-3	9 67
Susan E. Thorne	4	82	10	10 00
Susan J. Bryant	4	81	5	5 00
George A. Moore	4	111	3	3 00
John Todd	4	105	5 2-3	5 67
John Todd	4	144	3	3 00
Charles Goddes	4	151	1	1 00
James Delaney	4	152	2 1-3	2 33
A. H. Bogalorn	4	168	8 1-3	8 33
W. H. Baxter	4	173	57	57 00
R. C. Jacobs	4	137	32 2 3	32 67
R. C. Jacobs	4	32	6 2 3	6 67
Charles E. Brownell	4	118	4	4 00
Charles E. Brownell	4	139	3	3 00
Charles E. Brownell	4	140	8 2-3	8 67

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of March, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, on the 30th day of May, 1864, at the hour of 12 o'clock M. of Said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

WM. FAULKNER, Secretary.

April 25th, 1864. (18-4t) Office 411 Clay street, San Francisco.

La Marronena Silver Mining Company.—Location of

Mine, Lower California.

Notice.—There are delinquent upon the following described stock of the above named Company, on account of Assessment No. 3, levied on the 25th day of November, 1863, and Assessment No. 4, levied on the 23d day of March, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shares.	Amt.
B A Bidlack (bal of 3d ass't)	33	13 14 22	$13 63
B A Bidlack (4th ass't)	33	13 14-22	68 22
J H Stone	149	14 17-22	73 83
J H Stone	154	1 1-22	5 45
J H Welch	4	22 8 22	111 81
J H Welch	166	2	10 00
J W Sargent	8	27 6-22	136 38
Timothy Sargent	9	13 14-22	68 22
G W Botts	88	6 14-22	34 10
George B Lillie	16	13 14-22	68 22
J J Corrigan	84	9 2 22	45 45
J J Corrigan	86	9 2-22	45 45
J J Corrigan	89	6 2-22	30 45
F G Norman	167	11 14-22	58 22
J G Dow	135	10	50 00
J G Dow	136	10	50 00
J G Dow	94	13 14-22	68 22
Miss M A Phillips	157	21 6-22	106 55
Edson Sammis	68	13 16-22	68 68
Jas F Dorland	39	6 18 22	34 10
John Todd	41	4 14-22	23 22
John Todd	90	2	10 00
David Ross	92	7 20-22	39 56
Susan E Bryant	45	4 2-22	20 45
Susan E Thorne	44	8 4-22	40 90
Geo A Moore	51	2 16-22	12 22
Geo A Moore	56	1-2	2 50
E G Gifford	95	7	35 00
Jas Delaney	98	3	15 00
C Sabin	100	4 1-2	22 50
Geo W Thompson	107	4	20 00
H K Snow	123	2	10 00
H W Snow	148	1	5 00
H O Howard	161	5	25 00
Frank Snow	164	2	10 00
R C Jacobs	123	10	50 00
R C Jacobs	124	10	50 00
R C Jacobs	131	8	40 00
Mrs C E Brownell	154	5 14-22	28 22

And in accordance with law, and an order of the Board of Trustees made on the 23d day of March, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on the 30th day of May, 1864, at the hour of 12 o'clock, M., of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

18-4t WM. FAULKNER, Secretary.

April 26, 1864. Office 411 Clay street, San Francisco.

Table Mountain Copper Mining Company, Stanislaus

District, Calaveras county, California.—Office 615 Clay street, San Francisco, April 30th, 1864.

Notice is hereby given, that in accordance with the laws of the State of California, and the by-laws of the Company, there will be sold, at Public Auction, to the highest bidder, for cash, in U. S. gold coin, on WEDNESDAY, June 1st, 1864, at 10 o'clock A. M. of that day, at the office of the Company, 615 Clay street, San Francisco, so many shares of the capital stock of this Company, standing in the names of the following persons, as will be necessary for the payment of Assessment No. 5, of fifty cents per share, duly levied thereon March 26th, 1864, by the Board of Trustees, together with the expenses of advertising and sale:

Names.	No. Certificates.	No. Shares.	Am't due.
Wm. H. Geddes	33	16	$8 00
Wm. H. Geddes	34, 35, 36, 37, 38	10 each	25 00
A. B. A. Mason	143	133	66 50
L. W. McLaughlin	167	5	2 50
Lewis McLaughlin	195	5	2 50
E. F. Ogden	85	10	5 00
Wm. Boyer	201	10	5 00
Levi Drew	205	5	2 50
E. W. Linsley	181	2	1 00

By order of the Board of Trustees.

18-4t M. G. ELMORE, Secretary.

Cochece Gold and Silver Mining Company, Of-

fice, 625 Clay street, San Francisco, California. Location, Hum boldt District, N. T.

Notice is hereby given that in accordance with an order duly made by the Board of Trustees of the Cochece Gold & Silver Mining Company, there will be sold at public auction at the Office of the Company, on Monday, May 30th, 1864, at 12 o'clock, M., to the highest bidder for cash, in U. S. Coin, so many shares of the Capital stock of said Company standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay all assessments now delinquent thereon, together with cost of advertising and all accruing charges, unless the same be previously paid.

Names.	No. shs.	Amt due	Names.	No. shs.	Amt due
Geo Acker	20	10 00	Henry Michaels	10	2 50
Mrs M A Torrey	30	15 00	N A Watson	50	12 50
Adrian Spear	10	5 00	Chas H Aitken	10	2 50
L Corey	50	15 00	P J Barber	25	0 25
Sam'l S Davis	20	10 00	A Barrill	10	2 50
N B Mulville	197	98 50	A Levy	1	25
Wm T Towle	15	7 50	S Reerdon	10	2 50
Miss Amelia Eaton	10	5 00	G B Hudson	10	2 50
T T Kneeland	50	25 00	A McCormick	5	1 25
Thomas Williams	5	2 50	John Lewry	10	2 50
Carlos Mills	3	1 50	C Gignoux	10	2 50
Wm H Manning	200	100 00	J B Bloomingdale	10	2 50
A B Schafer	50	25 00	Lydia Stewart	10	2 50
W H Vanderwater	35	17 50	B M Barker	10	2 50
W H Mills	305	150 00	J R Nealy	5	1 25
Chas McDonald	40	10 00	A W Garrett	10	2 50
W B Allen	10	2 50	John Taylor	5	1 25
Henry Mahoney	5	1 25	Calh M Gilbert	10	2 50
Thomas Brown	5	1 25	J Hamilton	50	12 50
W H Harvey	15	3 75	J N Sewal	100	25 00
S P Cornwall	10	2 50	D Conrad	10	2 50
Caroline T Hall	10	2 50	Dr H Austin	10	2 50
Dan'l H Mitchell	25	6 25	H H Schafer	50	12 50
A N Byfield	05	10 25	Paul Rousso	10	2 50
J B Wells	20	5 00	Warren Holt	20	5 00
Henry Mess	50	12 50	Margaret Uplon	10	2 50
Geo Robinson	50	12 50	S Cohen	5	1 25
Jas Drury	30	7 50	Tabor & Hill	40	10 00
Richard Hall	20	5 00	Law Mok	20	5 00
F Brolleau	35	8 75	Joseph Wells	100	25 00
T H Downing	0	1 50	G T Sewal	10	2 50
Edmond Long	3	75	Thomas Prince	50	12 50
Jas R Gates	50	12 50	J G Klumpke	60	15 00
N Atkinson	228	57 00			

By order of the Board of Trustees.

18-5t C. W. HAYDEN, Sec'y.

Scottie Gold and Silver Mining Company, Office, No.

528 Clay street, San Francisco, California, April 12th, 1864.

Notice is hereby given that in accordance with an order duly made by the Board of Trustees of the Scottie Gold & Silver Mining Company, there will be sold, at public auction, by Jerome Rice & Co., at their salesroom, No. 327 Montgomery street, San Francisco, on Tuesday, May 31st, 1864 at 12 o'clock, M., to the highest bidder for cash, in United States Coin, so many shares of the Capital Stock of the said Company, standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay all assessments, now delinquent thereon, together with costs of advertising and all accruing charges, unless previously paid.

Names.	No. Shs.	No. Cert.	Assts.	Amt.
R. Barney	33	41	2nd & 3d	$49 50
S. C. Wright	8	46	2nd & 3d	12 00
R. B. Lovejoy	3	51	3d	3 00
A. K. Durgin	5	89	2nd & 3d	7 50
L. De Young	5	112	3d	5 00
Maria Cohn	5	113	3d	5 00
Elois De Young	5	127	3d	5 00
John W. Shore	50	128	3d	50 00
H. Dockweiler	10	129	3d	10 00
A. K. Durgin	2	134	1st 2nd & 3d	4 00
W. R. Greeley	10	141	2nd & 3d	15 00
James Hanna	20	5	1st 2nd & 3d	30 00
P. P. Wood	40	165 to 168	3d	40 00
J. McGinn	25	180	3d	25 00
W. W. McCoy	20	95 & 96	1st 2nd & 3d	30 00
W. W. McCoy	25	13	1st 2nd & 3d	50 00
W. W. McCoy	3½	93	1st 2nd & 3d	7 00
W. W. McCoy	15	125	1st 2nd & 3d	30 00

By order of the Board of Trustees.

18-5t B. W. MUDGE, Secretary.

Mount Eden Mining Company, Owen Lode, Gold,

Hill District, N. T.

Notice, There are delinquent, upon the foBowing described Stock - on account of assessment heretofore levied, the several amounts set opposite the names of the respective Shareholders, as follows:

Names.	No. Assts.	No. Cert.	No. Shs.	Amt.
*Bonestell, L. H.	1 and 2	59	20	$30 00
*Bonestell, L. H.	1 and 2	60	10	15 00
Barker, S.	1 and 2	28	10	15 00
Barker, S.	1 and 2	29	10	15 00
Barker, S.	1 and 2	30	5	7 50
Brewer, F. A.	1 and 2	93	5	7 50
*Congdon, H. B.	1 and 2	91	10	15 00
*Congdon, H. B.	1 and 2	83	5	7 50
McKinaly, Henry	2	42	10	5 00
McKinaly, Henry	2	43	10	5 00
White, Robt	2	10	6	2 50

*Sold but not transfered.

And in accordance with law, and an order of the Board of Trustees, made on the 15th day of April, 1864, so many shares of each parcel of said Stock as may be necessary, will be sold at Public Auction at the Auction room of John Middleton, No. 400 Montgomery street, on the 31st day of May, 1864, at the hour of 12 o'clock, M. of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

H. B. CONGDON, Secretary.

18-5t Office, No. 620 Washington street, San Francisco.

Coal Creek Coal Mining Company.

Located near Geyserville, Sonoma County, California, containing 320 acres.

CAPITAL STOCK,.....$120,000

600 Shares.....$200 Per Share.

Office of the Company, Room, 18 Phœnix Building, corner of Sansome and Jackson streets, San Francisco.

A. P. McCARTY.....President.

D. S. CUTTER.....Secretary & Treasurer.

TRUSTEES:

JOHN J. HUCKS.....San Francisco.

GEO. H. BAKER.....San Francisco.

P. T. ARCHAMBOU.....Geyserville.

19-3m

MINING AND SCIENTIFIC PRESS.—This is one of our most valuable exchanges. It comes to us filled with the most valuable articles, original and selected, upon the subject of mining, and we scissorize it to an awful extent. Every person engaged in mining to any extent, should be a subscriber to the PRESS.—*Gold Hill News.*

MINING NOTICES—MAY 14th.

Equal Chance Mining Company.—The First Annual Meeting of the Stockholders in the above named Company, for the election of Trustees, will be held on Monday, the 13th day of June next, at 2 o'clock, P. M., at the office of the Secretary, 614 Montgomery street. D. M. HOSMER, Secretary.
San Francisco, May 13th, 1864. 20-td

Excelsior Gold and Silver Mining Company, Reese River District, Lander county, Nevada Territory.
Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 22nd day of March, 1864, an assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable in Gold Coin of the United States, to the Secretary, or to SAMUEL DONNELLY, Superintendent of the Company, at Austin, N. T. By order of the Board of Trustees.
J. CAMMET, Secretary.
20-5t Office, No. 321 Front Street, San Francisco.

Astor Ledge and Company, Ravenswood District, Lander county, Nevada Territory.
Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 11th day of May, 1864, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable immediately to the Secretary, at No. 3, Armory Hall, 3d floor, corner of Montgomery and Sacramento streets.
Any stock upon which said assessments shall remain unpaid on the 11th day of June, 1864, will be advertised on that day as delinquent and unless payment shall be made before, will be sold on the 29th day of June, 1864, to pay the delinquent assessments, together with costs of advertising and expenses of the sale.
S. PURDY, Secretary.
Office, Armory Hall, Montgomery and Sacramento sts. 20-4t

Morning Call Silver Mining Company, Wheeler and Rogers Ledge, No. 2, Big Creek District, Lander County, N. T.
Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 11th day of May, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on the 14th day of May, 1864, in United States gold and silver coin, to the Secretary, No. 11 Government House in the City and County of San Francisco.
Any stock upon which said Assessment shall remain unpaid on Saturday the 11th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on WEDNESDAY, the 29th day of June, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale. EDW. QRACKENBUSH, Secretary.
Office, No. 11, Government House, cor. Washington and Sansome Streets, San Francisco. 20-4t

Ophir of the Colorado, No. 1, Gold & Silver Mining Company, Location of Claim, El Dorado Canon, Territory of Arizona.
Notice is hereby given that at a meeting of the Trustees of said Company, held on the 7th day of May, A. D., 1864, an assessment of fifteen (15) cents per share was levied upon the Capital Stock of said Company, payable on the 8th day of June, A. D., 1864, to the Secretary in U. S. Gold Coin,
Any stock upon which said assessment shall remain unpaid on the 8th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 20th day of June, to pay the delinquent assessment, together with cost of advertising and expenses of sale. RODNEY CLARK, Sec'y.
Office, San Francisco, No. 620 Washington Street, Room No. 13. 20-4t

Mosquito Quartz Mining Company, Location, Mosquito Gulch, near Mokelumne Hill, Calaveras County.
Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of May, 1864, an Assessment $5 per share was levied upon the Capital Stock of said Company payable immediately in United States Gold or Silver Coin, to the Secretary, at the Office of the Company, No. 433 Montgomery St. San Francisco.
Any stock upon which said Assessment shall remain unpaid on SATURDAY, the 11th day of June, 1864 will be advertised on that day, as delinquent, and unless payment shall be made before, will be sold on FRIDAY, the 1st day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale. By order of the Board of Trustees.
EM. FENARD, Secretary.
20-4t Office, 433 Montgomery Street, San Francisco.

Mount Vernon Gold and Silver Mining Company, Smoky Valley Mining District, Lander County, Nevada Territory.
Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 7th day of May, 1864, an assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable immediately, to the Secretary of the Company, in U. S. Gold Coin.
Any Stock upon which said assessment shall remain unpaid on SATURDAY, the 11th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 25th day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale By order of the Board of Trustees.
WM. H. DUDLEY, Secretary.
20-4t Office, No. 528 Montgomery St., San Francisco.

Zenith Gold and Silver Mining Company, Mountain Ranch District, Calaveras county, California.
Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 3d day of May, 1864, an Assessment, No. 5, of fifty cents per share, was levied upon the Capital Stock of said Company, payable immediately in United States gold coin to the Secretary at the office of the Company.
Any stock upon which said Assessment shall remain unpaid on Saturday, the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 18th day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.
M. G. ELMORE, Secretary.
Office, 645 Clay street, S. F. 19-4t

Notice to James M Ross, or his Heirs:—You are requested to call at this Office, where information of importance awaits you. Said Ross left San Francisco, in June last, for Noyo Mills.

Segregated Crown Point Mining Company, Gold Hill Mining District, N. T.
Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 13th day of May, 1864, an Assessment of twenty-six dollars per share was levied upon the Capital Stock of said Company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company.
Any stock upon which said Assessment shall remain unpaid on Tuesday, the 14th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 25th day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.
R. N. VAN BRUNT, Secretary.
20-4t Office, 706 Montgomery street, San Francisco.

Oxford Beta Tunnel and Mining Company, Silver Hill, Esmeralda District, N. T.
Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 9th day of May, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on the 10th day of May, 1864, in United States gold coin, to the Secretary, or to Thomas Lytle, Superintendent, at Aurora, N. T.
Any stock upon which said Assessment shall remain unpaid on Saturday, the 11th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 29th day of June, 1864, to pay the delinquent Assessment, together with the costs of advertising and expenses of the sale. By order of the Board of Trustees. GEO. H. PECK, Sec'y.
20-4t Office, Corner of Broadway and Sansome Streets.

Noble Grand Mining Company, Inyo District, Tulare county, California.
NOTICE.—There is delinquent upon the following described stock on account of assessment levied on the 8th day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Name.	No. Cert.	No. Shares.	Amt.
John F Ellis	36	10	$2 50
John F Ellis	37	10	2 50
John F Ellis	38	10	2 50
John F Ellis	39	10	2 50
John F Ellis	40	10	2 50
John F Ellis	41	10	2 50
John F Ellis	42	10	2 50
John F Ellis	43	10	2 50
John F Ellis	44	10	2 50
John F Ellis	45	10	2 50
John F Ellis	46	5	1 25
John F Ellis	47	5	1 25
John F Ellis	48	5	1 25
John F Ellis	49	5	1 25
John F Ellis	51	5	1 25
John F Ellis	52	5	1 25
John F Ellis	53	5	1 25
John F Ellis	54	4	1 00
Mrs S S P Eastman	127	5	1 25
G D German	132	4	1 00
John Kelsey	124	100	25 00
John Kelsey	125	41	10 25
Frank W Shattuck	55	10	2 50
Frank W Shattuck	63	10	2 50
Frank W Shattuck	67	5	1 25
Frank W Shattuck	68	5	1 25
Frank W Shattuck	71	5	1 25
Frank W Shattuck	74	5	1 25
Frank W Shattuck	75	5	1 25
Frank W Shattuck	76	5	1 25

And in accordance with law, and an order of the Board of Trustees, made on said 8th day of April, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the office of the Secretary, on the 24th day of May inst., at 12 o'clock, M., of said day, to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.
A. G. WOOD, Secretary.
20-2t 240 Montgomery street, No. 4, 2d door, San Francisco.

Kelsey Gold and Silver Mining Company, El Dorado County, Cal. Office, No. 605 Sacramento street, San Francisco, May 13th, 1864.
Notice is hereby given, that in accordance with the laws of the State of California, the By-laws of the Kelsey G. & S. M. Co., and the order of the Board of Trustees this day duly made and entered, there will be sold, at public auction, on Monday, June 13th, 1864 at, 11 o'clock, A. M., by Messrs. Cobb & Sinton, at their auction rooms, No. 406 Montgomery street, in the city of San Francisco, so much of the Capital Stock of said Company, standing in the names of the following persons as may be necessary to pay all Assessments now due by said parties, together with the expenses of advertising and sale, unless the same shall have been previously paid.

No. of Cert's.	Names.	No. Sh's.	No. Ass't.	Am'nt.
78, 79, 80, 81, 82	A Fulk	90	5 & 6	$22 50
89, 90, 92 to 105	Noble Lovely	275	5 & 6	68 75
407,138,139,140,141	F Wolfe	265	6	39 75
180	Sophia Steiger	25	5 & 6	6 25
191,193,194, 195, 426, 427	Ole Bergson	175	6	26 25
321	C H Taft	75	6	11 25
219	Joseph Whittle	10	6	1 50
233, 4, 5, 7, 8, 9, 240,1,2,3,4,5,6,7 9,250,428,429	John L Yates Jr	330	6	49 50
196,7,8,9,200,3,4, 5,8,9,12	A E Shannon	240	6	36 00
303	C H Kilby	20	6	3 00
304	B Slocumb	5	6	75
306	Lehman Blum	5	5 & 6	1 25
308	E Maitre	25	6	3 75
309	Gustave Israel	10	5 & 6	2 50
310	E Cleaves	10	5 & 6	2 50
315	F W Baeh	5	5 & 6	1 25
317	John Ducker	60	6	9 00
324	C P Williams	100	6	15 00
327, 339, 357, 364	John C Hall	65	6	9 75
328	Alice Moore	5	5 & 6	1 25
348	J Ford	20	5 & 6	5 00
264	Jane James	10	6	1 50
399	Andrew Wilson	15	6	2 25
406	Mrs Susan Sweetzer	10	6	1 50
420, 421	E Worth	50	6	7 50
435	Henry E Brooks	10	6	1 50
311	W Van Housen	5	6	75
164	W A Frey	10	6	1 50
273, 276, 280, 284 285, 286, 287, 288	B F Butler	85	6	12 75
22, 145	R D Scofield	17	5 & 6	4 25
Not issued	C J West	15	4, 5 & 6	5 25
294, 297	A de Castilla	40	4, 5 & 6	14 00

By order of the Board of Trustees.
20-4t S. C. GARDNER, Secretary.

For Sending East, no more valuable or appropriate publication can be selected than the MINING AND SCIENTIFIC PRESS. For sale by the principal newsagents.

Minnehaha Gold and Silver Mining Company, Reese River District, Lander County, Nevada Territory.
Notice is hereby given that at a meeting of the Board of Trustees of said Company held on the 22nd day of March, 1864, an assessment of Twenty-five cents per share was levied upon the Capital Stock, of Said Company, payable in Gold Coin of the United States, to the Secretary, No. 321 Front street, San Francisco, or to SAMUEL DONNELLY, Superintendent of the Company at Austin, N. T. By order of the Board of Trustees. F. M. TRUWORTHY, Secretary.
20-5t* Office, No. 321 Front Street, San Francisco.

Tuolumne Gold and Silver Mining Company, Poindexter Ledge, San Francisco District, Arizona Territory.
Notice is hereby given that at a Meeting of the Board of Trustees of said Company, held on the 10th day of May, 1864, an Assessment of ten cents per share was levied upon the Capital Stock of said Company, payable on the 14th day of May, 1864, in United States Gold and Silver coin, to the Secretary, No. 11, Government House in the City and County of San Francisco.
Any stock upon which said Assessment shall remain unpaid on SATURDAY, the 11th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on WEDNESDAY, the 29th day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. EDW. QUACKENBUSH Sec'y.
Office, No. 11, Government House, corner Sansome and Washington Streets. 20-4t

Prima Donna Gold & Silver Mining Company, Devil's Gate District, Nevada Territory.
NOTICE.—There are delinquent upon the following described stock, on account of Assessment (No. 6) levied on the second day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certif.	No. Shares.	Amt.
Briggs, John M	46	5	$2 50
Barker, S	81	20	10 00
Barker, S	84	5	2 50
Brewer, Mrs. H. W	142	5	2 50
Barker, S. F	153	95	47 50
Brewer, P. A	216	10	5 00
Chester, Henry	219	5	2 50
Harris, E. R	36	6	2 50
Harris, E. R	37	6	2 50
Harvey, Wm	74	5	2 50
Hamilton, Jas. E	93	20	10 00
Heath, Mrs. Jemima	118	5	2 50
Hageman, P	183	6	2 50
Lawton, Harding	230	5	2 50
Lentz, Wm H	137	5	2 50
Lawrence, W. H	237	5	2 50
Morgan, F	238	20	10 00
Morgan, F	239	20	10 00
Milbury, Jos	96	10	5 00
Milbury, Mrs. Annie W	97	10	5 00
Obergth, John A	92	5	2 50
O'Neill, R. C	194	5	2 50
O'Neill, R. C	197	5	2 50
Page, M. B	38	5	2 50
Pratt, S. K	204	5	2 50
McGinnis, J. M	107	50	25 00
McGinnis, J. M	108	60	25 00
McGinnis, J. M	110	25	12 50
McGinnis, J. M	112	25	12 50
McGinnis, J. M	216	10	5 00
McGinnis, J. M	217	10	5 00
McGinnis, J. M	218	5	2 50
*Rotarmund, John	64	5	5 00
Reilly, Michael	123	40	20 00
Reilly, Michael	128	10	5 00
Rogers, Samuel	228	10	5 00
Rogers, Samuel	240	25	12 50
Scholtz, Charles	182	5	2 50
Tenney, Eugene B	47	10	5 00
Wheeler, Henry	44	5	2 50

*Also delinquent on Assessment No. 5.
And in accordance with law, and an order of the Board of Trustees, made on the 12th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at Public Auction, at the salesroom of John Middleton & Son, No. 400 Montgomery street, San Francisco, on WEDNESDAY, the 15th day of June, 1864, at the hour of 12 o'clock, M., of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale. H. B. CONCDON, Secretary.
20-4t Office No. 620 Washington street, Room 3, San Francisco.

Saxon Copper Mining Company, Calaveras Co., Cal.—Notice is hereby given that in accordance with the laws of the State of California and an order duly made by the Board of Trustees of this Company, there will be sold at Public Auction at the office of the Company, at Copperopolis, on the 10th day of May, A. D. 1864, at three o'clock, p. m. of that day, to the highest bidder, for cash, in United States gold coin, so many shares of the capital stock of said Company standing in the names of the following shareholders as will be necessary for the payment of the assessments duly levied thereon by the Board of Trustees, together with the expense of advertisement and sale, unless said assessment and charges are paid before said sale.

Names.	No. Certificates.	Shares.	Amt.
Thomas H. Binnix,	3	50	23 50
Thomas H. Binnix,	63	50	23 50
Thomas H. Binnix,	64	100	47 00
Thomas H. Binnix,	75	50	23 50
Thomas H. Binnix,	76	10	4 70
Thomas H. Binnix,	77	10	4 70
Thomas H. Binnix,	78	10	4 70
Thomas H. Binnix,	79	10	4 7
J. H. Titcomb,	24	100	47 00
J. H. Titcomb,	27	25	11 75
J. H. Titcomb,	28	25	11 75
A. D. Titcomb,	84	25	11 75
M. R. Garrard,	87	50	44 50
M. R. Garrard,	88	50	44 50
M. R. Garrard,	89	50	44 50

By order of the Board of Trustees.
16-4t L. HONIGSBERGER, Sec'y

The above Sale is postponed until SATURDAY, the 21st day o May, 1864, at 3 o'clock, P. M. By order of the board of Trustees.
L. HONIGSBERGER, Sec'y.

Peacock Gold and Silver Mining Company, Reese River District, Lander county, N. T.
Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of April, 1864, an assessment of 25 cents per share was levied upon the capital stock of said company, payable immediately, in U. S. Gold Coin, to the Secretary, or to CHARLES H. FISKE, Austin, N. T.
Any stock upon which said assessment shall remain unpaid on the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 22d day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. C. W. M. SMITH, Sec'y.
19-4t Office, 29 Gov't House, San Francisco.

WASHOE MINING ITEMS.

New Paper.—Messrs. Degroot and Eckley are making preparations to issue a new paper at Ione City, in the new county of Nye, Reese River. The materials for the office have already been started over the mountains. The experience of Dr. Degroot will secure for the residents of that section a valuable paper, which will be good authority on all matters pertaining to the mining interest, in particular.

The Daniel Webster, which is located in Devil's Gate District, is taking out some rich looking rock. They are sinking a shaft down to the water level, which will be a great advantage to the working of the claim. A crushing of forty tons turned out $75 per ton. They are now working night and day, taking out quartz, and the Trustees have engaged a mill to crush 500 tons of the rock.

The Grenada G. & S. M. Co. are working steadily in their tunnel. An air shaft was put in last week, some 400 feet from its mouth. A perfect system of ventilation has been effected in this tunnel by extending a 6-inch pipe from the extremity of the tunnel to the bottom of a closed shaft, about midway of its length, after the manner already described in this journal, in our articles on ventilation.

The Silver Star have recently consolidated with the Kanaka Company. Their ground is to the west of the Oriental, in South Spanish Ravine. A shaft was sunk on the croppings 225 feet, and a tunnel started a short distance above the Oriental works, which is now in 500 feet. A shaft bas been sunk from the end of the tunnel, 60 feet on the ledge, finding it improving both in width and quality of quartz. Black sulphurets are making their appearance, and at the depth of 300 feet, to which the owners intend to go immediately, there is little doubt of pay rock making its appearance. The plan is to drift from that depth to the back ledges, put up machinery, and work the mine through the shaft.

Frankell Company is situated on American Flat, and contains 1,400 feet. It is marked by a tunnel which runs into the hill from a little ravine which crosses the road a little way beyond the Miantanomah company's works, 480 feet, as straight as a line all the way. The workmen have lately struck considerable water, and have found it necessary to put up canvas over where they stand to work. This water is considered a pretty sure indication of the ledge.

The Onkoto Co. is now finding very good indications in their tunnel, which is in about 480 feet.

Monte del Rey.—It is a source of much gratification to us to state that the above company has purchased a twenty horse power engine, for the purpose of working its claims. There is a spirit of energy being manifested by the Board of Trustees that is commendable indeed, we hope to see others imitate it. Mr. Aikin, the Superintendent, has taken a contract to build a mill near Dayton, and during his temporary absence A. Friedman will act in his place.—*Como Sentinel.*

Silver Discoveries.—The *Alpine Chronicle*, of the 7th inst., says:—"On Saturday evening last, John Poe, who has been employed by a company of Sacramentans, to prospect for them, arrived in Silver Mountain, having been successful in his undertakings, bringing with him a sack of specimens from a ledge which he has discovered on Silver creek, a tributary of Walker river, in Lost Valley district, about fifteen miles from Antelope Valley. The croppings were a dull, grey quartz, showing black sulphurets and galena. Good judges, who have examined the specimens, pronounce it the richest discovery of the season. Specimens taken out about two feet below the surface, look very rich in black sulphurets with less lead than in the croppings, the rock changing, in that short space, from the dull grey to a purer quartz. The ledge, so far as prospected, was found to be from 20 to 40 feet in width. This discovery is in a new district just formed, and is about thirty miles from Markleeville, in a southerly course via Silver King.

A Torpedo Corps."—The New York *Herald* of April 14th contains the following:—"The Navy Department has received from Admiral Porter a quantity of intercepted rebel correspondence, showing the existence of a regularly organized "torpedo corps." Some of the invention to be used are very curious; among them, lumps of coal, or something that resembles it, with torpedoes inside to be used with the fuel put on board our vessels.

MINING NOTICES—MAY 21st.

Silver Star Gold and Silver Mining Company, Virginia District, Storey county, N. T.

Notice.—There is delinquent upon the following described stock, on account of Assessment levied on the 21st day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:—

Names.	No. Certif.	No. Shares.	Amt.
Wm Boyle	1	10	$2 50
Wm Boyle	2	10	2 50
Wm Boyle	5	10	2 50
Wm Boyle	6	10	2 50
Wm Boyle	12	20	5 00
Wm Boyle	23	25	6 25
Wm Boyle	24	25	6 25
Wm Boyle	25	50	12 50
Wm Boyle	20	50	12 50
Wm Boyle	27	50	12 50
Wm Boyle	321	5	1 25
F A Benjamin	243	25	6 25
F A Benjamin	244	25	0 25
Thos Burns	332	5	1 25
E F Boyle	334	10	2 50
D Henley	351	5	1 25
Wm E Hale	320	15	3 75
Mary Cullen	310	10	2 50
Catherine Dolan	336	10	2 50
Catherine Duffey	319	10	2 50
Mary Drew	343	5	1 25
James Gannon	330	10	2 50
Thos Kent	256	10	2 50
F Kramer	229	10	2 50
Thos Lane	254	20	5 00
Louis Levy	328	10	2 50
M Merritt	255	20	5 00
H McCoy	341	10	2 50
Kate McCormick	344	5	1 25
James Nelson	162	25	6 25
James Nelson	163	25	0 25
James Nelson	164	25	0 25
James Nelson	165	25	0 25
James Nelson	166	25	0 25
James Nelson	167	25	0 25
R O'Keefe	262	10	2 50
R Paddock	323	10	2 50
R Paddock	324	5	1 25
Sampson Yama	235	10	2 50
Sampson Yama	236	10	2 50
Sampson Yama	237	10	2 50
Sampson Yama	238	10	2 50
Sampson Yama	239	10	2 50
Wm Byler	345	40	10 00
E B Clement	175	5	1 25
E B Clement	176	5	1 25
E B Clement	177	5	1 25
E B Clement	178	5	1 25
E B Clement	179	5	1 25
E B Clement	180	5	1 25
E B Clement	181	5	1 25
E B Clement	182	5	1 25
E B Clement	183	5	1 25
E B Clement	184	5	1 25
E B Clement	185	5	1 25
E B Clement	186	5	1 25
E B Clement	187	5	1 25
E B Clement	188	5	1 25
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E B Clement	192	5	1 25
E B Clement	193	5	1 25
E B Clement	194	5	1 25
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E B Clement	206	5	1 25
E B Clement	207	5	1 25
E B Clement	208	5	1 25
E B Clement	209	5	1 25
E B Clement	210	5	1 25
E B Clement	211	5	1 25
E B Clement	212	5	1 25
E B Clement	213	5	1 25
E B Clement	214	5	1 25
Wm H Culver	336	25	6 25
C H Craddock	340	25	6 25
James Feeney	318	10	2 50
W V Garvey	247	25	6 25
W V Garvey	240	10	2 50
James J Green	337	10	2 50
James Gallagher	32	10	2 50
James Gallagher	33	10	2 50
James Gallagher	34	10	2 50
James Gallagher	36	10	2 50
James Gallagher	38	10	2 50
James Gallagher	39	20	5 00
James Gallagher	40	20	5 00
James Gallagher	41	20	5 00
James Gallagher	43	20	5 00
James Gallagher	44	20	5 00
James Gallagher	49	25	6 25
James Gallagher	50	25	6 25
James Gallagher	51	25	6 25
James Gallagher	52	25	6 25
James Gallagher	53	50	12 50
James Gallagher	54	50	12 50
James Gallagher	55	50	12 50
James Gallagher	56	50	12 50
James Gallagher	232	75	18 75
Saml Neal	261	20	5 00
Sol A Sharp	219	25	6 25
Sol A Sharp	222	50	12 50
Sol A Sharp	223	50	12 50
Sol A Sharp	224	50	12 50
Sol A Sharp	225	50	12 50
Sol A Sharp	227	50	12 50
C H Stoutenborough	178	60	15 00
Mrs J E Swift	58	5	1 25
Mrs J E Swift	59	5	1 25
Mrs J E Swift	60	5	1 25
Mrs J E Swift	61	5	1 25
Mrs S E Swift	62	5	1 25
Mrs J E Swift	63	5	1 25
Mrs J E Swift	64	5	1 25
Mrs J E Swift	65	5	1 25
Mrs J E Swift	66	5	1 25
Mrs J E Swift	67	5	1 25
Mrs J E Swift	68	5	1 25
Mrs J E Swift	69	5	1 25
Mrs J E Swift	70	5	1 25
Mrs J E Swift	71	5	1 25
Mrs J E Swift	72	5	1 25
Mrs J E Swift	73	5	1 25
Mrs J E Swift	74	5	1 25
Mrs J E Swift	75	5	1 25
Mrs J E Swift	76	5	1 25
Mrs J E Swift	77	5	1 25
Mrs J E Swift	78	5	1 25
Mrs J E Swift	79	5	1 25
Mrs J E Swift	80	5	1 25
Mrs J E Swift	81	5	1 25
Mrs J E Swift	82	5	1 25
Mrs J E Swift	83	5	1 25
Mrs J E Swift	84	5	1 25
Mrs J E Swift	85	5	1 25
Mrs J E Swift	86	5	1 25
Mrs J E Swift	87	5	1 25
Mrs J E Swift	88	5	1 25
Mrs J E Swift	89	5	1 25
Mrs J E Swift	90	5	1 25
Mrs J E Swift	91	5	1 25
Mrs J E Swift	92	5	1 25
Mrs J E Swift	93	5	1 25
Mrs J E Swift	94	5	1 25
Mrs J E Swift	95	5	1 25
Mrs J E Swift	96	5	1 25
Mrs J E Swift	117	5	1 25
Mrs S E Swift	97	10	2 50
Mrs J E Swift	89	10	2 50
Mrs J E Swift	99	10	2 50
Mrs J E Swift	100	10	2 50
Mrs J E Swift	101	10	2 50
Mrs J E Swift	102	10	2 50
Mrs J E Swift	103	10	2 50
Mrs J E Swift	104	10	2 50
Mrs J E Swift	105	10	2 50
Mrs J E Swift	106	10	2 50
Mrs J E Swift	107	10	2 50
Mrs J E Swift	108	10	2 50
Mrs J E Swift	109	10	2 50
Mrs J E Swift	110	10	2 50
Mrs J E Swift	111	10	2 50
Mrs J E Swift	112	10	2 50
Mrs J E Swift	113	10	2 50
Mrs J E Swift	114	10	2 50
Mrs J E Swift	115	10	2 50
Mrs J E Swift	116	10	2 50
C R Thorne	335	10	2 50
C A Uhrig	253	25	6 25
Thos N Waud	159	50	12 50
Thos N Waud	160	50	12 50
Thos N Waud	161	50	12 50

And in accordance with law, and an order of the Board of Trustees, made on the 21st day of April, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the office of the Company, on the 8th day of June, 1864, at the hour of 12 o'clock, M., of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of sale.

WM. E. MOODY, Secretary.

21-2t Office, No. 706, Montgomery street, San Francisco.

Sonoma Ledge Silver Mining Company, Reese River District, Nevada Territory.

Notice is hereby given, that on MONDAY, May 23d, 1864, at noon, there will be sold, at Auction, at the salesroom of Cobb & Sinton, No. 406 Montgomery street, San Francisco, a sufficient number of shares in the capital stock of the Sonoma Ledge Mining Company, standing in the names of the following persons, to pay the Assessment (No. 2) of fifty cents per share, levied September 3, 1863; the Assessment (No. 3) of one dollar per share, levied January 5, 1864; and the Assessment (No. 4) of one dollar per share, levied March 12, 1864, together with the expenses of advertising and sale, unless the same shall have been previously paid—viz:

Names.	Certifs.	Shares.	Amt.
Barnes, R.	1	25	$25
Baldwin, J. G., Jr.	74	8	8
Basler, George A.	147	5	5
Bennet, W. P.	151	4	4
Bennet, W. P.	152	3	3
Bennet, W. P.	153	3	3
Bennett, A. A.	126	8	8
Bennett, A. A.	132	10	10
Bennett, A. A.	133	10	10
Burnham, R. M.	9	8	8
Burnham, R. M.	104	20	20
Clark, John W.	112	7	14
Dwarakowsky, Count	67	10	10
Dwarakowsky, Count	68	10	10
Dwarakowsky, Count	69	10	10
Dumas, Charles	75	25	25
Dumas, Charles	09	25	25
Dreyfuss, Henry	16	13	13
Friedman, S.	83	9	9
Garber, John	143	15	15
Helmken, I.	73	3	0
Howell, John	134	50	50
James, John D.	22	8	8
James, John D.	49	20	20
Kinsey, Mrs. Belle	130	8	8
Mann, David	117	3	3
Miller, J. W.	81	5	10
Neyman, H. J.	31	10	10
Neyman, H. J.	32	10	10
Neyman, H. J.	33	5	5
Neyman, H. J.	71	10	10
Neyman, H. J.	72	6	0
Pringle, George C.	34	10	25
Smith, David	88	10	10
Smith, R. T.	94	10	10
Smith, R. T.	95	10	10
Smith, R. T.	96	10	10
Smith, R. T.	102	5	5
Smith, N. T.	154	5	5
Smith, N. T.	155	5	5
Smith, N. T.	156	5	5
Smith, N. T.	157	10	10
Toler, William P.	148	5	5
Wolf, Louis	43	36	30
Wolf, Louis	91	10	10
Wolf, Louis	122	11	11

By order of the Board of Trustees.

DAVID WILDER, Secretary.

17-5t No. 240 Montgomery street, San Francisco.

Lost.

Certificates Nos. 433 & 49 of the Great Consolidated Boise River O. & S. M. Co., of five shares each, standing in the name of J. W Reed. All persons are hereby cautioned against purchasing the same as their transfer has been stopped on the books of the company.

J. W. REED.

San Francisco, May 4th, 1864. 19-4t

Before Cutting the Leaves of this journal, stitch each No. through the back, or fasten with a large pin, and you will have a paper in the most convenient form possible for reading or reference

E. D. Farrington,

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No. 430 Montgomery street, San Francisco. N. B. Assays guarranteed. 8v8-1m

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CHAS. F. RIEHN, late U. S. Branch Mint, gives lessons in Assaying, also in Mineralogy and Chemistry, as far as required to become a practical Assayer.

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G. E. MOORE,

Assayer and Analytical Chemist,

Having established a Chemical Laboratory, furnished with every requisite for delicate Analytical work, is prepared to execute the Assay and Analysis of Ores, Mineral Waters, Guanos, etc., with accuracy and dispatch. No. 334 Montgomery Street.

REFERENCES:—Prof. J. D. Whitney, State Geologist, San Francisco; Alsop & Co., San Francisco; Sather & Church, San Francisco; John Parrott, San Francisco; D. O. Mills, Sacramento. 1tf

ASSAYS AND TRADE CHEMISTRY!

Promptness and Accuracy Secured

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—AND—

ASSAYER OF ORES, MINERALS AND METALS,

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WORKING ASSAYS MADE ON LARGE OR SMALL QUANTITIES of Ore by the most approved methods, and instructions regarding the reduction of them, in general, given. Assaying of Ores, etc., taught, either by the wet or dry method. Silver Ores reduced by means of Electricity.

☞ Terms moderate, and all results guaranteed. 11v8-m

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☞ Gold and Silver Ores Reduced.

Practical Assays made of Gold, Silver and Lead Ores.

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NORTH BEACH

Quartz Mill and Reduction Works

ARE PREPARED TO WORK GOLD AND SILVER ORES, IN large or small quantities.

Working assays made of small lots, and all kinds of ores crushed at short notice.

Our new and complete Machinery, will enable us to give results fully up to the merits of rock.

WHEELER & THAYER, Proprietors.

C. C. JONES, Amalgamator.

San Francisco, Oct. 13, 1863. j2tf

HOWLAND, WOODARD & WILSON,

Copper Crushing and Grinding.

Attend to all kinds of Grinding & Crushing,

—SUCH AS—

COPPER ORES, MARBLE DUST, FIRE-BRICK DUST, DRUGS,

And Feed of all Kinds,

All of which will be Ground at the Shortest Notice.

—ALSO—

California Mineral Paint and Mineral Polishing Powder.

Works—No. 537 Market Street.

San Francisco, January 1st, 1864. 1-tf

DEETKEN & CO'S.,

METALLURGICAL WORKS,

FOR THE REDUCTION OF

SILVER AND GOLD ORES, TAILINGS, SULPHURETS, ARENIURETS, ETC., ETC. CUPELLATIONS AND REFINING OF SILVER AND GOLD,

Practical Assays for Silver and Gold, in small and large quantities, by Smelting, Chlorination and Pan Manipulation.

WORKS—On the San Bruno Road.

OFFICE—No. 315 Montgomery St., San Francisco. 16v8-1f

PRATER'S

PATENT CONCENTRATOR.

THE PROPRIETORS OF THIS NEW CONCENTRATOR, HAVING completed arrangements for its manufacture at the Fulton Foundry, in this city, now offers it to the public, with the fullest confidence that for the purpose for which it is designed

It Has No Equal in Use.

The principle of this machine, which is designed for a Concentrator exclusively, is entirely new. It is designed for separating finely divided quicksilver, amalgam and gold from the sands, and for concentrating and saving the sulphurets, and is to be placed behind all or any other machine in use. It is now in operation at

WHEELER & THAYER'S REDUCTION WORKS,

NORTH BEACH, SAN FRANCISCO,

To whom the Proprietors are permitted to refer, and where all interested in mining are respectfully invited to call and examine the best Concentrator in use.

This machine is now running on waste sands, from which it is taking out an average of 3½ pounds of quicksilver for each ton of sand. Orders or letters of enquiry may be addressed to

HUNGERFORD & PRATER, Proprietors.

San Francisco, April 1st, 1864. 11v8-tf

To Quartz Miners.

ALL PERSONS INTERESTED IN MINING MACHINERY ARE invited to call at Donahue's Foundry and examine my improved Amalgamator. It is unquestionably superior to anything now known for amalgamating Silver and Gold. It works 1000 pounds at a time, and will amalgamate over three tons a day. By the motion of the revolving muller, the pulp is drawn through its centre and passes under it, between the grinding surfaces, to the circumference; from whence it passes again over the muller to the centre, through the holes and between the grinding surface to the circumference as before. Thus a constant circulation of the pulp is kept up, bringing the particles of ore again and again under the muller, and reducing the whole mass to an impalpable powder.

No quicksilver lies between the surfaces to be ground, but at the circumference and centre of the pan where the metal must pass through it as the pulp circulates.

A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S. Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.

sep21

WHEELER'S

Amalgamating and Separating Pans

IT IS ACKNOWLEDGED BY ALL WHO HAVE EXAMINED THE principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.

The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metal arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the triturating, this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.

Where these Pans have been introduced and operated by the side of others on sands from the same val, the Wheeler Pans have uniformly gained a large percentage of metals, over its competitors, as well as a still larger percentage in the amount of work performed.

***These Pans may be seen in daily operation at the Miners' Foundry, on First street, San Francisco, where all interested are invited to call and examine for themselves.

no16-tf ZENAS WHEELER.

LLOYD'S NEW AMALGAMATOR

Is a Complete Success.

THE RESULTS OF THE WORK DONE BY IT DURING THE past week are:—From 300 pounds of tailings from Volcano, Amador county, worked for Mr. C. B. Culver, was obtained 6 oz. 12 dwts., equal to $40 to the ton of 2,000 pounds. The original ore was worked by the old Mexican arastra. From 600 pounds of tailings, the original ore having been worked by Professor Ryorson's Superheated Steam Machine, was obtained 15¾ ozs., Ryorson's machine having only got 5 ozs. to the ton from the ore.

Result from 50 pounds of ore from Amador county, worked for Mr. H. F. Williams, of Graves & Williams, of the Pacific Fruit Market, in this city, was obtained:

Gold	$73 33
Silver	42
To the Ton	$73 75

The assay being made by Messrs. Molitor & Co.

From 20 pounds of the same ore, worked for the same party, was obtained:

Gold	$63 30
Silver	04
To the Ton	$63 34

Assay made by Kellogg, Hewston & Co.

The mine from which the above ore was taken has turned out over $10,000 gold and silver, and the average yield as worked upon the spot, has only been $6 to the ton. Varney's Pan has obtained as high as $ 5 to the ton from this ore—the difference in favor of Lloyd's Amalgamator being over Varney's Pan, $53 34 per ton; and over the works at the mill, $62 34 per ton. Result from 15 pounds of ore from Queen City Company's claims, El Dorado Canon, Arizona Territory, worked for Mr. T. Mudge, who obtained: Gold, $6.19, Silver, $1.52, amounting to $27.71-100—equal to $361.33-00 to the ton—the assay being made by Messrs. Molitor & Co. Mr. Deetken, at his metallurgical works in this city, obtained by the Varney Pan $'54 to the ton—the difference in favor of Lloyd being $207.33-100 to the ton.

Result of 65 pounds of ore from the Lady of the Lake Company, Leland Lode, San Francisco District, Arizona Territory, worked for C. W. C. Rowell, was obtained $7.44 in Gold, $0.25 in Silver—$7.69—equal to $2.76.48-100. Assay made by Messrs. Molitor & Co. 100 pounds of the same ore, worked by Wheeler's Pan, and assayed by Kellogg, Hewston & Co., yielded $7.58-100—equal to $111.60 to the ton. Difference in favor of Lloyd being $64.53-100 to the ton. Lloyd's is undoubtedly the best Amalgamator yet introduced, and is certain to supersede all other Amalgamators now in use. Communications for Mr. Lloyd, either for assaying, or other machines, can be addressed to the care of Messrs. Kustel Brothers, Metallurgical Works, Bryant street, between Third and Fourth streets, San Francisco. 20v8-3m

Hepburn & Peterson's

AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION OF THE Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos. 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by the general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

[Illustrated in the Mining and Scientific Press, April 9th, 1864.]

nov8 3m* HEPBURN & PETERSON.

GEO. A. METCALF. D. S. HUTCHINSON

METCALF & HUTCHINSON'S

PHOTOGRAPHIC GALLERY,

650 Washington St. Three doors below Kearney, San Francisco.

HAVING REFITTED THE ABOVE ROOMS THE FIRM ARE now prepared to furnish the public with a superior style o Picture, at a lower price than ever before offered in the city.

CARD PICTURES.

As we have every facility for producing these beautiful picture in all their different varieties, we have reduced the price to

THREE DOLLARS PER DOZEN!

Large sized Photographs $3—Extra copies $1 each.

AMBROTYPES in all Styles and Prices.

OLD PICTURES copied with care and accuracy, in any style desired. Particular attention paid to pictures of children.

Pictures painted in Oil or Water Colors, and retouched in Indink by a competent artist. aug

Ore Bags.

10 000 HAND SEWED GOLD AND SILVER ORE BAGS, 100 lbs each. 15,000 Chicken Gunny Pocket Bags, suitable for Copper Ore, 125 lbs each. For sale in lots, by

REYNOLDS, HOWARD & FORD,

11v8-m 313 and 315 Davis Street, San Francisco.

COMPLIANCE WITH LAW.

THE PHŒNIX

INSURANCE COMPANY,

—OF—

Hartford, Conn.,

HAS MADE FULL COMPLIANCE WITH THE STATE LAW BY DEPOSITING

$75,000

With Messrs. Banks & Co., Bankers, and holds

Controller's Certificate of Authority.

The patronage of the insuring public is respectfully solicited for this first-class American Insurance Company.

AGENTS IN ALL CITIES, TOWNS AND VILLAGES.

R. H. MAGILL,

General Agent.

CITY OFFICE—James King of William Building, Southwest corner of Montgomery and Commercial Streets, (Entrance. No. 603 Commercial.)

L. B. DELL, Resident Agent.

I. FRANK, City Solicitor. 20-tf

A. S. HALLIDIE & CO.,

WIRE ROPE MANUFACTURERS.

Established 1857.

Office, No. 412 Clay street—Works, North Beach, SAN FRANCISCO.

After seven years' use throughout the State of California and the Pacific Coast generally, we can confidently recommend Wire Rope for

HOISTING FROM DEEP MINES,
GUY ROPES FOR DERRICKS, &c.,
STANDING RIGGING FOR SHIPS,
FERRY ROPES FOR FERRIES,
SASH CORD FOR WINDOW SASHES,
ETC., ETC., ETC., ETC., ETC., ETC

It being Cheaper, Stronger, Lighter and More Durable than any other kind of Rope, and not stretching or shrinking by atmospheric changes.

MINING COMPANIES, by using it for Hoisting Purposes, save 66 per cent. on their outlay for other ropes.

Wire Fencing Strand.

For fencing large parcels of land—permanently, economically and expeditiously. Manufactured in any length desired.

Pamphlets containing weight, strength and price, forwarded free application to the Manufacturers.

WIRE SUSPENSION BRIDGES AND AQUEDUCTS

We are prepared to erect, of any span and capacity, and take pleasure in referring those interested to the many structures of this kind built by us in California, Oregon and British Columbia, of span from 200 to 400 feet. 3-3m

Owen's River Canal Company.

CAPITAL STOCK.....$1,000,000

10,000 Shares.....$100 per Share.

A PORTION OF THIS STOCK IS NOW OFFERED TO THE PUBlic, and recommended as an investment.

Full Paid and Unassessable Stock,

Also Assessable Stock, can be obtained of A. J. DOWNER & CO., the authorized Agents of the Company,

306 Montgomery Street.

President.....R. S. WHIGHAM.
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THOMAS PRICE.
San Francisco, May 10th, 1864. 20

MINING NOTICES—MAY 21st.

Whitton Gold and Silver Mining Company, Silver Mountain District, California.

NOTICE.—There is delinquent upon the following described stock, on account of assessment levied April 20th, 1864, of fifty cents per share, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shares.	Amt.
Arnold, Mrs B W	150	10	$5 00
Brannon, S	86	10	5 00
Bridges, M C	104	10	5 00
Cornwall, J F	80	10	5 00
Garroll, Herbert	128	5	2 50
Daly, J G	93	25	12 50
Davis, W C	127	10	5 00
Fox, H	136	10	5 00
Fox, H	137	15	7 50
Irvin, James	82	183	91 50
Irvin, James	83	184	92 00
Irvin, James	101	10	5 00
Jordon, Emily	90	10	5 00
McGlew, Thomas	3	10	5 00
McGlew, Thomas	4	10	5 00
McGlew, Thomas	7	10	5 00
McGlew, Thomas	95	5	2 50
McGlew, Thomas	96	5	2 50
McGlew, Thomas	122	5	2 50
McGlew, Thomas	123	5	2 50
McGlew, Thomas	124	5	2 50
Mead, J A	76	20	10 00
Mead, J A	77	5	2 50
Mecklenburg, J	130	5	2 50
Pearson, I N	44	10	5 00
Pearson, I N	45	10	5 00
Pearson, I N	46	10	5 00
Pearson, I N	47	5	2 50
Pearson, I N	48	5	2 50
Pearson, I N	49	5	2 50
Pearson, I N	50	5	2 50
Perry, H E	102	10	5 00
Ploger, C A	126	5	2 50
Rowland, Henry	84	15	7 50
Rowland, Henry	85	20	10 00
Rowland, Henry	103	128	64 00
Richards, F E	135	5	2 50
Toomy, H	not issued	50	25 00
Tabor & Hill	92	20	10 00
Utting, H N	8	50	25 00
Utting, H N	9	50	25 00
Uttiug, H N	10	50	25 00
Uttiug, H N	11	50	25 00
Uttiug, H N	12	50	25 00
Uttiug, H N	13	50	25 00
Uttiug, H N	14	10	5 00
Uttiug, H N	15	10	5 00
Uttiug, H N	16	10	5 00
Uttiug, H N	17	10	5 00
Uttiug, H N	18	10	5 00
Uttiug, H N	19	10	5 00
Uttiug, H N	20	10	5 00
Uttiug, H N	21	10	5 00
Uttiug, H N	22	10	5 00
Uttiug, H N	23	10	5 00
Uttiug, H N	24	20	10 00
Uttiug, H N	25	20	10 00
Uttiug, H N	26	20	10 00
Uttiug, H N	27	20	10 00
Uttiug, H N	28	20	10 00
Uttiug, H N	31	5	2 50
Uttiug, H N	32	5	2 50
Uttiug, H N	34	5	2 50
Uttiug, H N	35	5	2 50
Uttiug, H N	37	5	2 50
Uttiug, H N	38	5	2 50
Uttiug, H N	132	3	1 50
Uttiug, H N	133	2	1 00
Whilton, R J	2	10	5 00
Whitton, R J	75	50	25 00
Whitton, R J	78	10	5 00
Whitton, R J	94	25	12 50
Whitton, R J	106	5	2 50
Whitton, R J	107	25	12 50
Whitton, R J	108	25	12 50
Whitton, R J	109	25	12 50
Whitton, R J	110	25	12 50
Whitton, R J	111	25	12 50
Whitton, R J	112	10	5 00
Whitton, R J	113	10	5 00
Whitton, R J	114	10	5 00
Whitton, R J	116	10	5 00
Whitton, R J	117	10	5 00
Whitton, R J	118	10	5 00
Whitton, R J	119	10	5 00
Whitton, R J	120	10	5 00
Whitton, R J	121	10	5 00
Whitton, R J	140	10	5 00
Whitton, R J	not issued	20	10 00
Walton, G H	100	30	15 00
Welch & Harny	134	5	2 50
Young, G W	141	25	12 50
Young, G W	142	25	12 50
Young, G W	151	100	50 00

And in accordance with law, and an order made by the Board of Trustees, April 20th, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the office of the Company, on the 9th day of June next, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with cost of advertising and expenses of sale.

J. WARREN CLARK, Secretary.

Office, No. 430 Montgomery street, No. 5, 3d floor, San Francisco.
San Francisco, May 21, 1864. 21-2t

Caledonia Tunnel and Mining Company, Office, No. 10, Government House, San Francisco, May 17, 1864.

Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Caledonia Tunnel and Mining Company, as required by the By-Laws of said company, there will be sold at public auction, to the highest bidder for cash, in United States Gold Coin, on SATURDAY, June 18, 1864, at 11 A. M. of that day, at the salesroom of Messrs. Jerome Rice & Co., No. 327 Montgomery street, San Francisco, so many shares of the capital stock of said company, standing in the name of the following person, or shareholder, as will be necessary for the payment of all assessments duly levied thereon by the Board of Trustees, and delinquent, together with the expense of advertising and sale:

Thomas Sunderland, Administrator of the Estate of H. O. Gaylor. No. certificates—592, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621....200 shares.....$2114 50

By order of the Board of Trustees.

21-4t J. M. BUFFINGTON, Secretary.

Two Good Canvassing Agents can find profitable employment by calling at this office. None but active and competent need apply.

Wilson Gold and Silver Mining Company.--Location, Echo District, Humboldt county, Nevada Territory.

NOTICE.—There are delinquent, upon the following described stock, on account of Assessments duly levied by order of the Board of Trustees, on the first day of October, 1863, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amt.
H. G. Blasdell	not issued	300	$300 00
J. W. File	not issued	300	300 00
Abner Wade	17, 18, 19, 20, 21, of 20 shs each.	100	100 00
Abner Wade	23, 24, 25, of 10 shs each.	30	30 00
Abner Wade	26, 27, of 5 shs each.	10	10 00
I. N. Thorne	not issued	75	75 00
Robt. J. Fulton	1, 2, 3, 4, 5, of 10 shs each.	50	50 00
Robt. J. Fulton	6, 7, 8, 9, of 25 shs each.	100	100 00
E. C. Palmer	33	bal due on 37½	28 15
C. A. Uhrig	47	37½	37 50
Thomas Mulcahy	32	5	5 00
Arthur Haine	36	12	12 00
John Pullee	101	10	10 00
D. P. Winne	102, 103, of 25 shs each.	50	50 00
Edward A. Morse	110	10	10 00
H. F. Nettleton	61, 62, 63, 64, 65, of 10 shs each.	50	50 00
J. C. Hanson	79, 80, 81, 82, of 50 shs each.	200	200 00
C. M. Batchelder	10	10	10 00
Mrs. E. W. Carey	11	10	10 00
Emma Patten	13	10	10 00
John Brennan	14	10	10 00
Mrs. E. A. Baxter	15	10	10 00
D. H. Kinsey	16	20	20 00
John C. Ing	83	10	10 00
R. G. Carlyle		60	60 00
S. Tyler		120	120 00
B. C. Whitman	75, 76, 77, of 25 shs each.	bal due on 75	40 00

Therefore, in accordance with law, and an order of the Board of Trustees, made on the 2d day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on SATURDAY, July 2d, 1864, at 12 o'clock M., of said day, to pay said delinquent assessments (one dollar per share) thereon, together with costs of advertisement and expenses of the sale.

J. F. MILLER, Secretary.

Office, No. 416 Washington street, San Francisco.

N. B.—Payments may be made at any time before the 29th day of June, to A. GAUCHAT, at the mine, or to the Secretary, at his office in San Francisco. (21-td) J. F. MILLER, Secretary.

Refugio Mining Company, Jesus Maria, Chihuahua, Mexico.

Notice, there are delinquent, upon the following described Stock, on account of Assessment levied on the 13th of November, 1863, and the 9th day of February, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shs.	Am't
Assessment No. 1.			
Davidson, L	100	60	$600 00
Martin, A	101	20	200 00
Assessment No. 2.			
Campbell, Roht	3, 93, 94, 169	53	$530 00
Cahill, Ed	13	10	100 00
Burstell, J. M	22, 70, 85, 86, 89, 138, 142, 7	92	920 00
Davidson, L	100, 160	72	720 00
Eastman, C. A	105	100	1000 00
Martin, A	101, 161	24	240 00
Malloy, John	88, 91	25	250 00
McKean, A. C	114, 123	6	60 00
Mowry, Sylvester	16	63	630 00
Smyth, C. F	40, 87, 159	50	500 00
Webb, C. H	155	50	500 00

And in accordance with law, and an order of the Board of Trustees made on the 18th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at public auction on the 21st day of June, 1864, at the hour of 12 o'clock, M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

COLL DEANE, Secretary.

21-4t Office, Odd Fellows Hall, Montgomery st., San Francisco.

Tellurium Gold and Silver Mining Company, Pine Grove, Amador county, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 21st day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amt.
Atkinson, Nathan,	245	100	$100
Beckman, Otto	19	5	5
Boylan, Joseph	26	20	20
Boylan, Joseph	27	20	20
Boylan, Joseph	28	20	20
Boylan, Joseph	29	20	20
Boylau, Joseph	30	20	20
Beers, J B	257	162	162
Bufford, J L	91	50	50
Bartlett, C	110	5	5
Boole, A	176	2	2
Cary, J C	172	6	6
Cushing, J J	155	50	50
Cushing, J J	200	35	35
Dyer, W D	49	5	5
Dyer, W D	50	5	5
Fay, A B	65	10	10
Gay, A C	256	53	53
Hughes, Ghas	134	5	5
Jones, Thos E	202	10	10
Kendall, S	183	5	5
Kendall, S	184	5	5
Keudall, S	190	5	5
Kendall, S	192	5	5
Lartigean, P	152	10	10
Mathiew, A	138	10	10
Massard Jules	151	10	10
Margneiriea, G	159	10	10
Munbec, L	Bal of 164	5	5
Noyes, Nathan	136	5	5
Noble, Murray	237	5	5
Pritchard T	112	5	5
Pattou, A F	175	8	8
Pardow, Geo	88	15	15
Seuter M S	51	5	5
Senter M S	52	3	3
Senter M S	53	2	2
Stewart G K	156	50	50
Woodbury C E	247	5	5
Woodbury C E	248	5	5
Woodbury C E	249	5	5
Wilkinson J R	198	5	5

And in accordance with law and an order of the Board of Trustees, made on the 21st day of April, 1864, so many shares of each parcel of said stock as may be necessary will be sold at the salesroom of Jerome Rice & Co., on the 4th day of June, 1864, at the hour of 11 o'clock A.M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

WM. H. MARTIN, Secretary.

21-4t Office, 637 Clay street, San Francisco.

Lord Byron Gold and Silver Mining Company.--Location: Devil's Gate District, Nevada Territory.

NOTICE.—There are delinquent upon the following described stock, on account of Assessment levied on the sixteenth day of April, 1864 the several amounts set opposite the names of the respective shareholders, as follows—

Names.	No. Cert.	No. Shares.	Amt.
Booth, L. A.	79	50	$50 00
Barker, S.	94	1	1 00
Berry, R. W.	2	13	13 00
Berry, R. W.	64	30	30 00
Berry, R. W.	105	10	10 00
Brown, B. T.	8	25	25 00
Brown, B. T.	9	25	25 00
Brown, B. T.	10	25	25 00
Brown, B. T.	107	12	12 00
Brown, B. T.	108	10	10 00
Brown, B. T.	109	10	10 00
Brown, B. T.	110	5	5 00
Brown, B. T.	59	20	20 00
Bones, J. W.	102	13	13 00
Bagge, Theo. F.	35	25	25 00
Bonestell, L. H.	116	5	5 00
Bonestell, L. H.	117	10	10 00
Bonestell, L. H.	118	10	10 00
Bonestell, L. H.	119	10	10 00
Bonestell, L. H.	120	10	10 00
Card, R.	39	25	25 00
Card, R.	40	100	100 00
Dilley, James S.	111	20	20 00
Dyer, Wm. D.	101	15	15 00
Graham, Edward	93	4	4 00
Hall, R.	91	20	20 00
Hall, R.	92	8	8 00
Hudson, Geo. A.	50	50	50 00
Holland, Patrick	67	20	20 00
Holland, Patrick	68	20	20 00
Holland, Patrick	69	10	10 00
Knapp, W. A.	98	15	15 00
Knapp, W. A.	114	10	10 00
Knapp, W. A.	115	10	10 00
Lawton, Irving	106	15	15 00
Lansing, G. J.	70	10	10 00
Mains, J. P.	112	15	15 00
Mains, J. P.	113	10	10 00
Morgan, F.	27	25	25 00
Morgan, F.	57	25	25 00
Morgan, F.	76	10	10 00
Morgan, F.	99	25	25 00
McNamara, Thos.	51	12	12 00
McNamara, Thos.	55	17	17 00
McNamara, G. S.	104	25	25 00
Murphy, Patrick	37	25	25 00
Mikkleson, R.	44	5	5 00
McNutt, G. W.	63	20	20 00
Nason, R. H.	23	10	10 00
Nason, R. H.	24	10	10 00
Nason, R. H.	25	5	5 00
Nason, R. H.	100	25	25 00
Nichols, Mary A.	33	50	50 00
Olney, C. C. (Trustee)	36	25	25 00
Olsen, Peter C.	61	10	10 00
Price, Miss G.	45	5	5 00
Pride, Wm. H.	95	20	20 00
Pride, Wm. H.	96	20	20 00
Pride, Wm. H.	97	10	10 00
Sheehan, Maurice	58	50	50 00
Taylor, L. W.	31	20	20 00
Taylor, L. W.	32	20	20 00
Taylor, L. W.	33	20	20 00
Taylor, L. W.	34	20	20 00
Warren, Miss M. R.	46	5	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 16th day of April, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the auction room of Jno. Middleton & Son, No. 401 Montgomery street, San Francisco, on SATURDAY, the 4th day of June, 1864, at the hour of 12 o'clock, M., of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

H. B. CONGDON, Secretary.

21-3t Office, No. 620 Washington street, Room 3, San Francisco.

United States Gold and Silver Mining Company.-- Mine located in Lander county, Nevada Territory.

NOTICE.—There are delinquent upon the following described stock, on account of Assessment No. 1, levied December 23d, 1863, of three cents per share, and Assessment No. 2, levied February 6th, 1864, of five cents per share, the several amounts set opposite the names of the respective shareholders, as follows:

ASSESSMENT NUMBER ONE.

Names.	No. Shares.	Amount.
E Lashier,	400—not issued	$12 00
J S Schuster,	332—not issued	9 96
George Baumer,	334 not issued	10 02
Henry Schutz,	334—not issued	10 02
D B James,	100—not issued	3 00
D Tourtellotta.	200—not issued	6 00

ASSESSMENT NUMBER TWO.

Fisher M Clarke,	400—not issued	20 00
F Lashier,	400—not issued	20 00
R R Fuller.	334—not issued	16 70
J S Schuster,	332—not issued	16 70
George Baumer,	334—not issued	16 70
Henry Schutz,	334—not issued	16 70
D B James,	100—not issued	5 00
D Tourtellotta,	200—not issued	10 00

And in accordance with law, and an order of the Board of Trustees, made on the twentieth day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the auction rooms of John Middleton & Son, No. 400 Montgomery street, San Francisco, on MONDAY, the 20th day of June next, at 12 o'clock M. of said day, to pay the delinquent assessments thereon, together with costs of advertising and expenses of the sale.

T. L. BIBBINS, Secretary.

Office, No. 302 Montgomery street, San Francisco.
San Francisco, May 20th, 1864. 21-5t

Eureka Mining Company, Mineral Spring District, Calaveras County, State of California.

Notice.—There is delinquent, upon the following described Stock, on account of Assessment levied on the 12th day of April, 1864, the several amounts set opposite the Names of the respective shareholders, as follows:

Names.	No. Cert.	No. Share.	Amount.
D T Brown Jr	51	10	2 00
Chas S Nathan	37	5	1 00
Antonio Rose	129	10	2 00
Antonio Rose	131	10	2 00
Antonio Rose	152	20	4 00
Jesse Thompson	100	10	2 00
Jesse Thompson	101	10	2 00
Jesse Thompson	102	10	2 00
Jesse Thompson	103	12	2 40
Jesse Thompsou	147	20	4 00

And in accordance with law, and an order of the Board of Trustees, made on the 12th day of April, 1864, so many shares of each parcel of said Stock as may be necessary, will be sold at the office of the Company, on the 30th day of May, 1864, at the hour of 12 o'clock M, of said day, to pay said delinquent Assessment thereon, together with costs of Advertising and expenses of the Sale.

C. W. HAYDEN, Secretary.

20-5t Office, 625 Clay Street, San Francisco.

AND SCIENTIFIC

Mining Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

VOLUME VIII. SAN FRANCISCO, SATURDAY, MAY 28, 1864. NUMBER 22.

[Written for the Mining and Scientific Press.]

The Patio Amalgamation.

BY J. H. CHURCHILL, A. M.

[CONTINUED FROM PAGE 323.]

It will bo desirahle to describo the treatment of the ores from the month of the shaft, hecanse in estimating this process ns the foundation of others, it is well to know exactly where the alterations introduced really arise. The want of the same capital which has given hirth in our State to "freezing out," drives the trihuter in Mexico who has heen working mines on shares to the display of his oro in a court yard. There he offers them by anction to the tender mercies of huyers, whose interest in the ores is ahsolute from the moment of sale, and from whom it were hopeless to attempt to lenrn nnything which might guide the original owner as to the real value of his commodities. On one side we havo an ignorant peou, rclying on the hrightness tnnt he can develop by constant wetting—on the other, men who werc satisfied origiually with such au approximation, as panning out wonld nfford, nnd who found sufficient security in the nvarice of their compeers, that they would never he required to give full value for nny nres—competition has more lntely induced them to attempt an assay hy cupelling a small piece of a lot for sale, hut still with the rudest, if not unpracticed guessing, instead of sampling. Do we do hetter?

Those who have heen "frozen ont," and who hnve lost all their "feet," will hardly call this peculiar alteration in the modc of getting value for a claim which requires the same sort, and the same proportion of capital from the moneyed mnn and the working man, an equality worth maintaining. Try again, legislators. In any ease a proper sampling ean alone enable a huyer to offer up to the full value; any speculative purchase must, in fairness, be against the seller of nn nrtiele ahove the average standard. The ores that have thus bcen collected and sold are often in very large masses—it is even said that expericnced buyers weigh these by the eye with considerable accuracy, sufficient doubtless, to protect themselves—like other guesses of the same loose kind, they are aecurate until they are verified; their only merit is, that they can he madc quite "safe." Alas! for the careless seller.

These masses are first broken np and transported in sacks to the hacienda of the purehnser on mules. These animals nlso supply mueh of the power reqnired for working the stamps and the eireular mills for grinding, ns well as for treading the torta. They end by being filled up with amalgam, so that they are never quite worth their weight in pure metal.

The whole system of pulverization consists of three snceessive operations in the stamp mills, which are of mueh the same eonstruetion, as the non-revolving stamps of Cornwall and other countries, followed hy grinding in stone mills, nnd this by treading with horses, mules or men. Between the first and seeond operations, the ore is sorted hy passing it through a perforated hide; it is then nsually in tho eondition oe coarse sand. Six mules will work a ten-stamp mill for six hours, and pulverize ore iu that time to this degree of fineness at the rate of half a ton per hour. The next process is conducted with eonsiderable difference, in the result—in some, 800 lbs. per 24 hours are reduced. In the case of horu silver, much of the subsequent sueeess depends upon the carefulness with which this tough mineral is comminuted; where the finest work is necessary, six hundred pounds per day of continuous grinding is a full charge. Two mules work one arrastra commouly for six hours.

In addition to this reduction in size of the mineral, in some cases roasting, even of the argentiferous ores, was resorted to. Thus we find blendes roasted in furnaces of the reverberatory class. The heat was necessarily low from the nature of the materials of construction, iu addition to the cost of fuel; and ns the result it often occurred that after twelve hours' operation, much of the sulphurets still retained their natural lustre.*. Again, as nt Nieves, open furnaces were used, and the roasting effected on the same principles, as when (copper) coarse metal is roasted in stalls, as at Mansfield. The furnace was made as broad as high; the charge consisted of ahout a ton of ore with half its weight of dried wood, so elosely packed that the mouldering ignition was maintnined for a week. The material of this furnace was also adobes. This method of roasting is in any eircumstances incomplete, and we shall see that in heing one source of the introduction of sulphurets of hase metals, among the materials of the torta, it is answerable for much of tho enmplications of the whole system.

It is not unworthy of remark that at Stern, when roasting hlendes in the most improved method, where they nltimately by the nse of a high heat, remove all the sulphur, only twn-thirds are removed as sulphurous acid.†

We have now the ore reduced in size, and where necessary roasted, and it is ready for heing introduced into the cake-shaped heap, or torta, for amalgamation. The other materials are essentially magistral and salt. The first contains, as an active ingredient, sulphate of copper, or part of the sulphuric acid may be comhined with iron. It is prepared from pyrites hy roasting, nnd ns in the case of the similnr treatment of the ore, the proeess is hut imperfeetly performed in general, and we have ngain a residue of snlphurets to go into the torta; and when this is the cnse, of course the heat npplied has not heen sufficient to decompose the sulphate of iron. The salt is added, as we shall see, separately; but it was n practice long sinee known in Mexieo to intrndnee a small quantity of it while roasting the magistral. There seems, therefore, less originality than a recent writer, on Californin processes, implies when he is spenking of roasting pan-tailings, to supply magistral for patio amalgamnting at Virginia City and on the Carson river. They were essentially sulphurets, also containing some common salt. The sulphate of eopper, present in the magistral, as prepnred by fire, has an important distinction from blue vitriol; it is free from water. Wben, tberefore, it is added to the water in the pntio, it eombines with it, nnd the heat so produced is nt least to he considered in tbe history of the process. When this is rendered tardy hy the presence of too mueh magistral, it is attrihnted to heat, and termed ealor; similar sluggishness in eold weatber is ealled ealor de frios. We shall have to notiee tbe ehemical effect of mass on the materials of the torta. It is partly owing to mechanical ineonvenienes, attaehed to the hulky salt earth of Penon Blanco, that its employment was ahandoned at Zaeetecas; hut it is quite certain that it was a prolific souree of waste during all the time it was put into the torta. It eontained by analysis‡ less than 20 per eent of salt; but it also intrndueed along with this two-thirds of the same proportion of lime and magnesia in the form of earhonates. It will be apparent, as we proceed, how nngatory sueh a mnterial must have heen. A ehemist may he exeused in pointing to this mnrked instance of the money value of his sciene. An assny determined that there was salt enough—the analysis, that there was enough else present to make this nenrly nseless—a result only to be learned without it by mnny repetitions of mnny months' work.

*Clair Duport.
†Perls.
‡Made at l'Ecole Polytechnique, Paris.

[To be Continued.]

THE BRITISH METAL MARKET.

Tho British Metal Market was exceedingly dull during the month of March, with prices generally tending downwards.

TIN.—The standards for black tin were reduced, during the month, £6 on fine and £7 on commou. A fall of £4 was announced on the 17th. From that date to April 1st the market was firmer. Straits in demand at £112; Banca at £116@117. Tin plates in demand at fair prices, according to qnnlity. The *West Briton* remarks that this decline is no more than every one had heen expecting for some time. This drop in the standard will materially effect the tin mines, and throw them back to the same position as they were at the heginning of the year.

COPPER.—Sales of copper, at the Cornish Ticketings, for the four weeks previous to Mnrch 20th, were 13,124 tons, with an avernge of 6 per cent.; standard of value, ahout £131.

LEAD.—The prices for the month of March show n slight decline over that of February. Common English is quoted at £21¾; L. B., £22; W. B., at £22¾; Spelter, at £21½.

IRON.—The market for this metal has also heen very flat, orders having been kept back in hopes of a reduction in prices. Some improvement was manifested townrd the close of tbe month, and a fair business was done in Seoteb Pig at from 58s. 3d.@ 59s. 6d. Sweedish iron has been better maintained.

The same general depression is noticed in the various continental markets, The disturbed political eondition of Europe is assigned as the cnuse of the depression, and bnt little improvement can be expeeted until polities present a more favorahle aspect. Operators and eonsumers, in the meantime, will use great caution in all their transactions.

A MINING SHARE SALE IN VICTORIA.—The Victoria *Chronicle* tells as follows how British Colnmbia mining shares sell: J. P. Dnvis & Co. yesterday sold by auction 155 feet in the American Mining Co., Gold Strenm, at 67½e. and 45e. per foot; 119 shares Sangster Copper Co., at 35c.; 10 feet in the Parmenter Quartz Mining Co., Gold Stream, at $1 per foot; Eureka Copper Co., 25e. per foot.

SCIENTIFIE EXPEDITION.—FRANCE is preparing a Scientifie Expedition to Mexico on a magnificent scale. The Minister of Public Instruetion has nominated a Commission to prepare and instruct this phalanx of savans.

MAMMOTH ELEVATOR.—A Mnmmoth Elevator is in proeess of eonstruetion in Milwaukee, which will have a eapacity of 1,300,000 bushels; nine receiving and five shipping elevators, with 45,000 hushels taking and 25,000 giving capaeity per hour.

A NEW PAPER, devoted to the cnuse of spiritnalism has been started at Sacramento, ealled the Golden Gate and edited by Mrs. Frances H. McDongal.

Written for the Mining and Scientific Press.]

THE FORMATION OF METALLIC VEINS.

NUMBER V.

BY EDWARD A. MILES.

Water, which in a pure state is a great obstacle to the passage of electrical currents, is a superior conductor of them when united with acid, alkaline or metallic elements. Springs are almost always found issuing from or near metallic veins, and are usually heavily mineralized with alkalics, sulphur, and sometimes the more poisonous metals. Water, whatever form it may take, is the grand vital agent of the electrical action in veins. It is equally required in the chemical changes, the electrical conduction and the transfer of elements. Some kinds of rock, when in place, have a high degree of aqueous saturation, and, perhaps, others, to a more subtle and greater extent than is really supposed, through the powerful capillary attraction that electricity is known to exercise. In more favorable mining regions it will be found that high mountains are the absorbants whence erupted dykes act as conduits and limiting walls to convey the internal drainage of a large area into a comparatively small basin, where the richest mines flourish like the verdure of an oasis. The operation is the same in analogy with that of external streams concentrating loam and fertility. Metallic veins outside of these conditions have a far less degree of richness, and where numerously diffused within a small space, are individually less pregnant in proportion. Even the central areas of the submerged basins of certain geological epochs seem to now bear the most bounteous metallic character, whether but little disturbed or greatly elevated and broken by intruding rocks. The great thickness of their strata gives that powerful and extended working of the electrical cause not to be obtained in rocks of a shallow depth. The geological basins are traceable in unaltered sedimentary formations, and are surmisable amid metamorphosed rocks throughout the world. The lead mines of Illinois and Iowa and the mines of California appear to occupy the inner areas of such primeval basins. It is also noticable, that all superior mining districts, whose containing mountains or hills are physically insignificant, are either located near the sea or large inland bodies of water, which must be supposed to exercise some influence in the electrical effects.—Types of this latter class, are the mines of Great Britain, Norway and Lake Superior.

That vigorous action witnessed in a galvanic battery, and in a moment setting free the electricity that nature has been hoarding during centuries, must far exceed the full power of the largest quartz lode. It is thus that nature weaves the atoms of every fabric, by feeble means in perfect control; her most compact and perfect structures are the result of slow, progressive creation through time, wherein the life of man is among the lowest fractions. There are metallic veins that, by all geological calculations of the age of the stratified rocks, may date back their birth and electrical excitation millions of years; in all that immensity of time, gathering, atom by atom, the aggregations of those coins that ye men of mental and physical labor have toiled for but a day, an hour, or a minute!

The requirements of constant workable metallic veins are so complex in character that it will be seen that they ever must be rare, and when found, prized like jewels of great price. The largest class of metallic deposits, upon which modern speculation sinks the equivalents of as much money as ever comes out of the good ones, are segregated veins that have been in their imperfect fissures but slightly or irregularly operated upon by electrical action, a fact that might have been anticipated prior to any great expenditure of money. Others again hold their contents gathered within a few rich but scattered pockets. Yet many of both these classes can be rendered profitable through a true knowledge of their character.

A metallic vein is to the mineral what a tree is to the vegetable kingdom, having its roots, and its branches, and its precious fruits; both throb with currents electrically and chemically comparative in character, and revolve the valuable disseminated particles of nature in condensed forms. The one marshals the inorganic and the other the organic elements into combinations of beauty and of use to mankind. The diurnal revolutions of temperature, the electric shafts hurled from the collossian thunder cloud, the gentle falling rain drops, the changeful breezes, as well as the living spring, are all co-workers of the subtle but mighty labors.

[Concluded next week.]

[Written for the Mining and Scientific Press.]

From a Special Correspondent.

Messrs. Editors.—Records of journeys over well traversed pathways and among scenes and actions not altogether striking to the familiarized traveler, can demand nothing more than a dry statement of the existing state of things; and this is all I will promise as the imparted instruction of the present brief tour, which commenced with my departure from Sacramento by the Jackson road, one day last week.

A ride of twenty miles brought me to the old Dayton ranch, whence my course led up the Cosumnes river to Michigan Bar, crossing the stream at Putnam's bridge, three miles below town. No finer rural scenery than strips of the river bottom, green with barley and broadly shaded with oaks, can be found in any portion of the State. Back from the little stream, designated a river, green fertile nooks and fields occupy the hollows and low hills as if seductively clasping the brown hills in their charming embraces. Barley here and elsewhere along the foot hills seems to be the favorite crop, and at a casual glance looks better than its prospective yield of grain really betokens. Before reaching the river the last few miles of travel were over an area of gently rolling country, but from that point the view recognizes the flat-topped hills that mark a range of gravel deposits and its cement cropping. At different points, I examined three varieties of this cement, the first met with being a shallow, gray, taffaceous mass, enclosing pieces of trachyte and impressions of leaves, the second a light calcareous bed, and the third a stratum of coarsely cemented quartz grains. To the decomposition of the two former varieties is probably due the general fertility of the surrounding soil. Three miles below Michigan Bar, a dyke of serpentine rising above the level of the adjacent land, crosses the river, where it conveniently serves to anchor a wire bridge, high above destructive floods. I heard of but one attempt at copper mining in the vicinity of this belt—on a thin seam of pure metal, which eventually gave out. Succeeding the serpentine, comes ranges of hills, extending close to the river, and covered with a red loam, which is being washed down in many places to the depth of forty feet by such hydraulic facilities as can be afforded by streams heading from the level of the hills.

The small town of Michigan Bar occupies a flat, curving back an half mile from the river, which here makes a long bend in line with the curvature of the flat. The wide bar on the opposite side of the river is receiving attention from but one small company of Chinamen, while a narrow place along the banks at the lower end of the town still remunerates a large number of the same class of miners. The river is so shallow here that but little effort is required to turn its course.

In a ravine on the west slope of a ridge, a mile below the town, I visited the ledge of the Josh company, which has been sanguinely located as an argentiferous vein. It embraces a seam of white quartz, about one and a quarter inches wide, between walls of black slate, which are flanked by a gray clay slate. The quartz and walls are impregnated with iron sulphurets, and, possibly, other metals which I failed to detect. The shaft has been sunk to the depth of seventy feet. About three hundred pounds of quartz and wall rock was shipped below on the same day for a thorough working test, awaiting which work has been suspended on the shaft.

Crossing a rude bridge, east of Michigan Bar, and thence over a nearly level tract of country to the succeeding ridge, in all, a distance of five miles, I reached the copper belt and the claim of the Cosumnes company, one of the most notable of the vicinity. The Cosumnes company's vein is situated near the top of the ridge. The claim, located in December, 1862, contains 10,100 shares, of two feet each. The principal shaft, connected with an engine and costly building, has reached the depth of 280 feet. Starting at the surface, a good body of ore was followed down to where it became quite pinched, which caused a wide spread report that the vein had entirely failed; deeper sinking, however, brought another deposit of ore, which for the last sixty feet has not given more than slight traces of its presence.—The rock being hoisted at the time of my visit, contained considerable white quartz, with occasional pieces of mundic and sulphurets of copper. A second shaft, 290 feet south-east, had reached the depth of eighty feet with two drifts of forty-five feet total length, at the bottom. The rock near the surface is intermingled with green carbonate of copper; below and in the upper portion of the drifts there is exposed a considerable bulk of sulphurets, evidently of a high per centage, showing the mark of the pick point almost like pure metal. The amount of ore taken out of this shaft is said to average two and a half tons of No. 1 sulphurets per day. In all, over 300 tons of ore, averaging near twenty per cent. of metal, have been shipped from the mine. Twenty-five men are said to be employed about the works. In addition to the returns from the ore, the outlays have demanded assessments amounting to some $21,000. Near the present shaft, quite large blocks of sulphurets and red oxides were early found at the surface. Two other portions of the Company's lengthy strip of ground have been pierced to a slight depth without finding workable ore.

The Spanish Co. (incorporated), claiming 3,200 feet on a parallel vein, at the foot of the hill, west of the Cosumnes, has two shafts, the deepest thirty feet. South, on an extension of the same vein, are other shafts, averaging a depth of thirty feet. A third vein appears to lie still further west, on which is located the Badger Co's claim, with a shaft twenty-eight feet in depth.

Claiming on a vein, east of the Cosumnes and a short distance south of the shafts, is the Oriental company's ground, of 1,400 feet. This claim possesses a half dozen shafts, the deepest 125 feet, with a good building over it. From this claim two or three lots of ore have been shipped; the last amounting to twenty-five tons. Work, for a time suspended on this claim, has been re-commenced.

Next south is the ground of the Oriental No. 2; 2,000 feet, shaft 45 feet. Succeeding it on the same vein, the Katrina company claims two thousand feet, and has a shaft down eighty-three feet. Still south, is the Malachite company's claim, on another vein.

The two last named claims belong to San Francisco companies, and are being prospected under the supervision of Mr. Schütze, who is about to publish a lithographic map of the copper claims of this section. According to his estimate, there are some seven or eight parallel veins and 150 shafts thereon, in this, the Forest Home District.

A mile south of the Cosumnes' shafts, the title of Mineral City is claimed by about a score of buildings, mostly unoccupied. The little settlement of Forest Home shows at its very threshold its succeeding connection with the copper belt, by a shaft 125 feet in depth, belonging to the Exchange company.

Passing by numerous nameless shafts, scattered here and there for a distance of five miles from Forest Home, I reached the Arroyo Seco company's claim, of 1,300 feet, situated about midway up the western slope of a high ridge. The location was made about a year ago, and until lately was known as the McNealy ground. The claim being within the Spanish grant, which covers several miles of the surrounding country, the original owners were compelled to share their luck with the great claimants. The company has erected a good whim and pump house over a shaft now 200 feet deep. Ore was first struck near the surface in an adjoining shaft which was carried down seventy feet. The vein having disappeared in the main shaft the workmen are drifting north and west through talc and quartz in search of the vein. The west wall is talcose slate, the east apparently trap, though I saw no croppings of the latter exposed. About 300 tons of ore have been shipped from this mine.

Within a stone throw of the Arroyo Seco shaft on the south, is the shaft house of the Johnson Company; shaft 175 feet deep. The workmen are drifting from the bottom for the vein. A dozen tons of ore, the total amount extracted from this mine, are piled up in sacks near the shaft.

Three miles south is the town of Ione, on the outskirts of which the Nigbtingale company have sunk a shaft to the depth of 150 feet, and have in contemplation the project of expending a couple of thousand dollars upon a further depth of 100 feet. Vein a compact white quartz between walls of talc. M.

[To be Continued.]

State Property.—The telegraph has announced that a resolution has passed the Senate at Washington, donating to the State of California the lands embraced in the Mariposa Big Tree grove. Of course the House will "concur" and this great national curiosity will become the property of the State. This is as it should be, and early steps should be taken to secure these monster trees from vandal hands, and preserve them for future generations.

An iron flag has been placed on the Patent Office at Washington. It is handsomely painted in waving folds to imitate the national colors, and is said to present a good appearance. These metal flags are made by the patentee, A. Watson, of Washington City.

[Written for the Mining and Scientific Press.]

Reese River Correspondence.

UNION DISTRICT.

This district is situated in the Smith's creek range of mountains, about sixty miles south of Austin, from which place there is a stage line running twice a week. Persons traveling by private conveyance should turn off the overland road at Westgate. This district is in the new county of Nye, the county seat of which is Ione City, a settlement containing over 300 houses. Ten miles south of Ione, in the same district, is Grantsville, containing 20 houses, and two miles south of Grantsville is Milton, with 15 houses. Wood and water are plenty at Ione. In the Union district there are about 1,100 locations. Those near Ione are encased in granite; those in the vicinity of Grantsville in slate. In extent, the district is ten miles from north to south. The ledge rock near the surface contains gold and silver; but on descending on the ledges the gold becomes invisible, and native silver makes its appearance. The following ledges have had considerable work done on them during the winter, and will average three feet in width: Franklin, Shamrock, Washington, Pleiades, Jo Carrier, Belcher, Clipper, Silver Moon, Albany, Fletcher, Wild Emigrant, Vicksburg, Vanderbilt, California and Keystone. They are located near Ione. Near Grantsville, the ledges upon which considerable labor has been bestowed are: Sapphire, Shoshone, Empire, Mt. Hope, Big Miami, Bullion, Bullion Tunnel Co., Gen. Butler, Lottery, Arctic, West Point, Great Republic, Adriatic, Confidence, Wigwam, Magnolia, Hall & Thornton. These ledges will average five feet in width.

MAMMOTH DISTRICT.

This recently-created district is fifteen miles west of Ione City, on the Edward's creek range. Wood and water are plenty; the ledges two to four feet in width. There are about fifty miners in the district, who have made several hundred locations.

BARNES' PARK DISTRICT.

This district lies north of Union, which it adjoins. About seventy-five locations have been made on ledges similar in character to those near Ione.

SAN ANTONIO DISTRICT

Lies in the southeast portion of the county of Nye, and is about 120 miles south of Austin. Wood and water are almost entirely wanting. This is a most serious drawback to the prosperity of San Antonio, as the ledges are very large and rich. Worked by hand process, it is a common thing for a number of pounds of ore to produce one-third of its gross weight in pure silver. Nye county has a brilliant future before it, but it will probably take two or three years to bring its resources to light, on account of its remoteness from the Great Highway between the east and the west.

AUGUSTA DISTRICT,

Which is contiguous to the west side of Reese River district, contains about sixty locations. The Gen. Scott rock is of a rich character. The Butte Company, on the Oro ledge, shows favorable croppings.

CLAN ALPINE DISTRICT

Contains a number of locations made by Dr. Veatch and party. The Doctor never makes poor locations, so we may expect much from Clan Alpine.

MT. AIRY DISTRICT,

Which, like Clan Alpine, is in the neighborhood of the Augusta district, has produced some favorable indications.

BUNKER HILL DISTRICT.

This district was created out of Saate Fe and Summit districts by a party of men who left Austin, last summer, on a prospecting expedition. In the segregation of a portion of their territory, these districts were not consulted by the Bunker Hill party, whose main object in the creation of a new district must have been the avoidance of paying recorder's fees, as the reputation of Santa Fe and Summit was, and is, equal to that of any section of the whole Reese River region. What is termed the Bunker Hill district, comprises the whole of Pleasant Valley and about five miles on each side of Big Smoky creek, at the mouth of which is the promising town of Kingston. The lower portion of Summit district, or Bunker Hill, contains very rich locations, some of which have been recorded by different parties in different districts. This informality will be the cause of much litigation; but, eventually, the ledges will be held by the first locators, no matter in what district they were recorded. The Brown, Real del Monte, Phœnician, Stephens, Gold Point, Victorine Empire, Morning Star, Jackson & Green, Mountain Boy, are all large ledges. O'Herrin & Co. are about to erect a 20-stamp mill on Big Smoky creek, for the purpose of crushing rock from the Gold Point ledge.

SANTA FE DISTRICT,

In the Santa Fé Valley (Smoky), is the chief attraction in Austin at this time. As work must be resumed on its mammoth ledges by the 1st proximo, miners are harrying thither with *material* for extensive operations. X.

Austin, May, 1864.

[Written for the Mining and Scientific Press.]

Letter from Owensville.

Messrs. Editors:—I have just returned from a trip to San Carlos and Bend City. I found everything in a flourishing condition. The tide of immigration to this valley is setting in in good earnest.—Farmers and cattle and sheep drovers are constantly pouring into the valley. Several thousand head of sheep and cattle have already arrived from Los Angeles and Visalia, and more are on the way.

The working of the mines in Inyo and Russ districts goes on as actively as ever. In the former district several new ledges have been recently opened—Belle Boyde, Boomerang, Columbus and Stonewall Jackson lodes are among the number. They are all turning out well, and will add much to the wealth of the district. Rock taken from the Columbus, at the depth of twenty-five feet, assayed $1300 per ton.—The Superintendent of the Ancho mine showed me some rock from their ledge, taken out at the depth of twenty-two feet, which is also first class rock, being rich in free gold, and showing silver in abundance. The Superintendent of the Santa Rita has arrived and will commence work immediately. The Ida mill which this company have purchased, is a good one and in fine running order.

It only needs an energetic and practical miner for a superintendent to make this enterprise a success. Such they have in the person of Mr. Whiteman, who is a practical miner and assayer. The new mill at San Carlos will soon be completed. At Chrysopolis a company are at work crushing quartz by horse power, with common arrastras.

A party of gentlemen are now at San Carlos, erecting a small furnace, designed for testing the galena and copper ores containing silver, which are so abundantly found in that region. As this work will soon be completed you may look for a good return, and shipment of Owens River Bullion to your city. In Russ District the owners of the New York ledge are developing their mines; they have found the New York to be a first class, well defined ledge, with a quality of rock seldom excelled in any country.

NEW EXPLORATIONS.

Prospectors are exploring the country east of Inyo and Russ districts, with good success. That portion of the country bids fair to become the source of quite as much mineral wealth as any yet discovered. The salt mine lately found there will be of great benefit to the mines on Owens River, as well as to those of Coso. From the White mountains, we hear good reports and are shown rich rock both from old and new discoveries. Mr. Stevens passed through San Carlos on the 5th inst. on his way out to work the White Rover and Dolphia lodes. These ledges are highly spoken of by those that have seen them.

The saw mill at Big Pine is at work and doing good business. Their lumber as well as building and fencing material is eagerly sought by farmers, citizens and miners. Another mill will soon be built on Bishop's Creek to supply the farmers of that creek and Greealys Valleys with fencing. The mines near here are, as a general thing, turning out well. Among the companies at work, the most prominent are the Rubicon, San Francisco, Marathon, Great Western, Vallejo, Pioneer, Leviathan and Silver Creek companies. All of these have large and well defined ledges of gold and silver bearing quartz, from which assays have been made reaching as high as six thousand dollars per ton. I have seen rock from the Rubicon company's mines, which worked over $500 per ton, and rock from the Marathon that will work over $1,000. This is a very large ledge and can be seen distinctly from town—eight miles distant. The Leviathan is highly spoken of and bids fair to become one of our richest mines. The mines north of here and in the same range of mountains are turning out well. Rock containing native silver is found in abundance. The weather in the valley is mild and pleasant. Within the past few days we have had some light showers and the grass along the river bottoms is growing very rapidly and within a month will be suitable for hay. Concora.

Owensville, May 16, 1864.

The Chilian Copper Trade.—We have already announced the falling off of the yield of copper in Chili, and the latest accounts from Valparaiso afford still further confirmation of the fact. They state, that, "notwithstanding the better advices from Europe for some time past, our expectations that a stimulus would be given to the production and export of copper have as yet not been realized, and the probability is, that for a considerable period to come, the exports will be on a reduced scale. There is no doubt but that the mines in Atacama are not yielding much at present, and the ley of the ores is not so rich as formerly. We learn that in the Huasco and Carrizal district, the production of regulus, instead of augmenting, is actually on a reduced scale as compared with 1863. The quantity of bar copper available for export will be increased, and the tendency of the new measure for abolishing the duties on bar copper smelted with Chili combustible, which will soon come into operation, will still further augment the elaboration of that article in this country, reducing very materially those supplies of ores and regulus on which the English smelters have hitherto relied. There is no question but that they will not have nearly enough ores and regulus from this country to supply their wants; and they will be necessitated instead to purchase Chili bar copper much more freely than formerly. We consider that we are only fulfilling our duty in calling attention to these facts, as we apprehend the falling off in exports of ores and regulus is to be very serious. At present most of the ores available are going to the United States." The arrival of the English mail, with advices to Jan. 1, declaring an advance in the price of Chili bars from £92 to £100, caused much excitement, and it was considered that smelters in Europe would yet find it needful to advance prices still further in order to draw supplies. They may take it now as a certain fact that the supplies from Chili during 1864, will be on a small scale, especially those of regulus and ores; and it is generally believed that the shipments of the first nine months of this year will not exceed those of the corresponding period of 1863.—*London Mining Journal, April 2.*

First Monthly Shipment.—The first monthly shipment of Table Mountain copper ore has been received in this city, consisting of 52 tons. It is now lying on Moore & Folger's wharf, and will be dispatched to New York by vessel now loading. This ore is a fine quality of salphurets, assaying 27½ per cent. The lead in the lower level, we are informed, now consists of five feet of sulphurets. At the present time the company are taking out from four to five tons per day. They will put up steam machinery immediately, the same to be paid for out of the products of the ore. The company expect, hereafter, to be able to make regular monthly shipments of ore.

Decorations.—We would call special attention to the advertisment of Mr. Glover, whose taste and skill as a decorator has been endorsed by medals, in at least two instances. His work, as displayed in several of our public rooms exhibits excellent taste in his peculiar art, and stamps him as an artist who ought to receive encouragement from an appreciative public.

Gold in South Australia.—Mr. Hargraves, the original discoverer of gold in Australia, recently started on a gold-prospecting expedition in South Australia. Accounts of a favorable character have been received from him, to the effect that he had already found signs of gold in Bullaparinga.

The most extensive city railroad project yet projected is one now pending before the Pennsylvanin Legislature, which proposes to run cars through fifty different streets in the city of Philadelphia, most of which have not yet a rail in them.

Emigration.—A train of one hundred families left St. Joseph, Mo., on the 17th inst., for Nevada and California. Come along; "the more the merrier."

Summary of Mining News.

CALIFORNIA.

Timely Strike.—A correspondent, writing from Brown's Valley, Yuba county, under date of the 23d inst., states that very rich quartz was struck in the Dannebrage mine—a fortunate circumstanee for all bands, as had this strike not occurred, the men would all have heen discharged in a few days, and the mine closed up on account of its poverty. This busy mining eamp still keeps up its bustle and activity. We are promised regular correspondence from this locality in future.

Another Strike.—A correspondent informs us that Messrs. Autry & Henderson, of Grass Valley, took out on Monday last over $2,000 in specimens from their gravel claim in Mary's Ravine. They took out about the same amount a few weeks since. This is pretty good for old ground that has heen trod over for years and supposed to be worthless.

Rich Quartz.—A very rich vein of gold bearing quartz has recently been found near Howland Flat, Sierra county. The ledge was accidentally struck by a party of men engaged in grading a foundation for a saw mill.

Quartz Ledge.—A valuable and extensive gold bearing quartz ledge has heen discovered near Franklin Hill, in Plumas county, by Messrs, Shaw & Murray. The lode has heen traced and located for a distance of one mile.

Can't Agree.—The Copper City *Pioneer* says the principal offices of the Pittsburg mines should he located at Copper City; the Red Bluff *Independent* thinks Red Bluff is the proper place; the Shasta *Courier* thinks his cotemporaries must be joking and is quite sure that Shasta is just the place for all such offices.

Mining at West Point.—Mining at West Point Calaveras county, is now carried on more extensively, and prosecuted with greater success, this season, than for a number of years past. The idea which has so long prevailed, that our ledges of quartz did not extend to a great depth, has been discarded and a majority of our miners are working leads heretofore abandoned as worthless. Many of them are working 90 and 100 feet below the greatest depth heretofore obtained, and with the most satisfactory results; so says a correspondent of the Calaveras *Chronicle*.

We are pleased to learn that such is the case, and trust that other neighboring districts will soon be able to report in a like encouraging manner. Faith in your mining district and perseveranee in developing your claims, will in the course of time bring you out all right.

Great Mogul Mines.—Work commenced in this District on the 1st of May, and the miners law requires that one day's work shall be performed on every claim of 200 feet, every thirty days, otherwise the claims are liable to he jumped. The Alpine *Chronicle*, published at Markleeville, says that the Elmira company, in this district, commenced a shaft, about four weeks since, and when down thirty-five feet struck the ledge, four and a half feet in width. They had some of the rock tested, and it assayed $18.76 in gold and silver. It is dark blue quartz, containing rich sulphurets of silver and indications of copper, and is increasing in richness as the shaft goes down.

The Morning Star is situated on the east side of the town of Mogul. The company are making the necessary preparations to commence work again. Their tunnel is in 769 feet. They commenced work in October, 1863, and about the time they suspended work, they expected every day, to strike the Mogul ledge, on which their claim is located.

On the Banner, an extension of the Morning Star, they are sinking a shaft which is now 25 feet deep, with the best prospects.

The Superior tunnel is now in 705 feet and being pushed rapidly into the hill, and from indications, they are not far from the ledge.

The above claims are five miles, due east from Markleeville.

No Loss Without Some Gain.—The great flood of 1861-2, which deluged and for the time being, desolated the whole Valley of the Sacramento, appears to have carried at least partial compensation with it. Thousands of acres of new land were formed along the margin of the tule marshes by the sand and rich sediment deposited by the waters, and this season, the fields thus increased in size will he nearly the only ones in the State which will yield plentiful crops.

WASHOE.

Palmyra District.—The claim of the Lyon Company, in the Palmyra District, on a thorough practical working test, yielded $117.76 per ton. The Altamonte Company have their tunnel in 345 feet. Eighty feet more will strike the ledge, at a depth of 240 feet. The Mountain Queen is located in a northerly direction from the Whitman ledge, and has prospected as high as $800 to the ton; it is being rapidly developed—so says the Como *Sentinel*.

The Yolo Company is driving ahead with its work at a rapid rate. They are sinking an incline shaft—now down 100 feet. Some fine rock has been found within a few days. The rock produces mostly gold, very little silver is found. The company will continue down on the incline some two or three hundred feet.

The Clinton & Hubbs is sinking an incline, from a drift run from the shaft sunk some time ago, and from which a lot of rock was crushed. It is expected that the mine will improve in depth.

Kentucky Company—This company keeps steadily at work running its tunnel ahead. This work is now something over 500 feet in length, and is well timbered all the way. It is one of the longest and best tunnels on the American Flat. It is now in such a distance that considerable inconvenience is experienced from the closeness of the air. To remedy this inconvenience a large bellows has been placed at the mouth of the tunnel, from which air is forced in through a tin tube—an inconvenient and expensive way of ventilating, which the company would do well to throw aside, as quickly as possible, and resort to the system of natural ventilation already described in our columns. Quite a large stream of water is now running out of the tunnel, which the company considers very good evidence that they are close upon the ledge.

Utah—The main hoisting shaft of the Utah Company is now down 280 feet, and a drift has just been started in the direction of the lead. The rock is hard, irony granite, and can only he worked by blasting. A considerable amount of water is now coming in, and they are preparing to put in their pump.

Struck it Rich.—We learn through Langton & Co's agent at Como, says the *Enterprise* of the 21st inst., that very rich ore was struck day before yesterday in the Monte del Rey shaft, at the depth of 170 feet. The rock is said to he not only very rich but of a very handsome appearance, none but the best judges being able to distinguish it from the rich black sulphuret ores of the leading mines of the Comstock range.

Lady Bryan, No. 2.—The incline of this Company is down 170 feet and at its bottom a perpendicular shaft is being sunk upon the lead. This is now down twelve feet and some very fine rock is being taken out. Work on the claim is being vigorously prosecuted.

Apple Claim.—This claim, which is a segregated portion of the Belcher, and lies next south of the Midas, is being steadily worked. The shaft on it is now down about 215 feet. Considerable water comes in, although it is not nearly so deep as the shaft on the Midas claim, which is sunk only seventy or eighty feet north from it, and in that there is none at all. This claim is owned by Mr. Robt. Apple, who is doing the work in a very substantial manner.

Independent.—This company has a large quantity of pay rock lying on its dump which has been taken from its mine. It is of the same color and character as that which the Justice company is taking out of its claim. The quartz is of a reddish brown color, and comes out of the mine, mostly in a pulverized state, of about the same consistency as gravel, and contains but few pieces of rock of much size. It is said to yield about $60 to the ton when worked by a good mill.

Lady Bryan.—The Territorial *Enterprise* of the 21st inst., says the Lady Bryan has struck a large deposit of splendid ore—equal to the very best they have ever found. This is supposed to be a continuation of the streak first found, and which, a few months since, caused so much excitement about the mine. Owing to a break, or fault, in the lead, they were for a time off the track of the pay streak and were drifting at random through a large body of quartz containing but small deposits of ore, but they finally worked in the right direction and found it again within twenty feet of where it so mysteriously disappeared.

Good Yield.—The Shasta *Courier* of the 21st inst., says that week the proprietors of the Jollie mill cleaned up after a run of eight days and realized the handsome sum of 51 ounces. Only four hands employed.

New Coal Company.—The Daniel Low Coal Mining Company filed their incorporation on Saturday last. The mine is in Washoe county.

The Fuller Copper Co.—The Marysville *Appeal* says: after six or eight months the Fuller Copper claim, located at Brady's ranch, in this county, at a depth of 157 feet, have struck copper which we should guess to he 40 per cent. pure ore. The claim is still under the superintendence of M. Fuller, Esq., of this city.

Buckeye.—The opening of this claim is progressing finely. The company have lately had about 20 tons of ore worked, and the result, from all accounts, is highly satisfactory. They have twenty tons more out, ready for the mill. They do not anticipate very extraordinary returns from this rock, as what they are now taking out is merely incidental to the proper opening of their claim.

Struck their Ledge.—The Jewett & Shepard cut through into their ledge on Monday last, at a depth of 225 feet, meeting with a large influx of water, which soon drove the workmen from the drift, but not until they had secured about a ton of quartz. The Gold Hill *News*, having seen some of the rock, says that it shows not only considerable free gold, but rich black silver sulphurets also, in sufficient abundance to give it a decided value.

Pride of America.—A drift run from the shaft, at a depth of 150 feet from the surface, developed a very fine ledge, but not of sufficient value in itself to warrant the company in prospecting it at that point. The work of sinking was therefore resumed, and the shaft is now over 200 feet deep. A drift will soon be commenced—probably the present week—and the vein, which will doubtless show good ore, cut a few feet from the shaft.

Coppers Company.—This company is now running a drift at the water level from its shaft along the ledge. The shaft was sunk in a hollow in the hill, and struck the ledge in a poor place, but by following it along a short distance from the shaft, the ledge comes under a ridge, where it rises up and becomes larger and of better quality. The *News* thinks there will be no pay rock taken out at this level. The company will have to go deeper, and erect hoisting works, or wait until some of the companies take the water from this claim by draining their own mines.

Improvement in Working.—Mr. Kuh, an assayer, at Virginia City, informs the Virginia *Union* that the Washoe mills have made a vast improvement recently in the fineness of their bars. Two or three years ago a mill whose bars contained but 300 parts of base metal out of 1,000, thought they were working very close—now the fineness of the bars ranges all the way from 850 to 992. The Government standard is only 900, the remaining 100 being alloy, so that many of the silver bars now being shipped from the Territory are actually purer than our own coin.

The Largest Shaft.—The Ophir Company has for several weeks been sinking a shaft which when it was commenced was the largest in the Territory: but the Savage Company has lately commenced one which is larger still, being upwards of eight feet wide and twenty feet long. The timbers which are used are hewed twelve inches square, and are placed one above the other three feet apart. These timbers divide the shaft into four compartments, each five by six feet in size in the clear. This shaft is now about fifty feet deep.

First Train Overland.—The first train overland arrived at Woodford's Carson Valley, on Thursday last, bound for the other side of the mountains, and will go over the Amador Wagon Road. There are three families in the train, which consists of thirty-two wagons and 300 mules, under the charge of Mr. Glenn. They left the Missouri river on the 15th of March, and were but 60 days in reaching Carson Valley.

Reese River.—The work of development on the mines at Reese River appears to he steadily going forward, and with the most flattering results. Thus far, almost without exception, the mines of that region have improved with depth, both in their yield and in the size of the veins. As a general thing the expensive process of tunneling is dispensed with and the veins are opened by sinking inclines down upon the leads. The deepest incline, thus far, we believe is on the North Star, which, at last accounts was down 200 feet, or 150 feet perpendicular. The vein was found continuous and productive the entire distance.

The Isabella is now down to the depth of between eighty and ninety feet. The ledge which was one of the "razor backs" at the beginning, is now, according to the *Reveille*, about four feet thick. The ore shows abundantly of ruby, native sulphuret and iodide of silver—the latter in great profusion for so rare a variety.

Mining Gossip.

EDITED BY.....FRANK WARDDELL.
FOR THE MINING AND SCIENTIFIC PRESS.

The Way They Do It.

To give our readers a slight idea as to how our Eastern stock-sharpers work the rise in gold to suit themselves, we make the following extract from the Philadelphia *Evening Telegraph*, which illustrates a case in point. It plainly shows that the recent unprecedented advance in gold has little or nothing, comparatively speaking, to do with the condition and prospects of the war. The Eastern papers assert that there is now a bill before the Senate, and which will undoubtedly become a law, imposing pains and penalties on those who, in the interest of gold, conspire against the happiness and welfare of the people. More real injury is done to the interests of the Union by these speculators than would be the loss, in many instances, of a battle; and measures, however harsh and stringent, that may be enacted against such abuses, will be applauded and sternly maintained by the community. If "combinations" must be put down, let those which do irreparable injury be the first to be struck at. If Congress would take these sharpers in hand, and make their baseless speculations criminal, as those of blacklegs, the people, we are convinced, would honor them for the act:—

"Seven brokers on Third street, at the suggestion of a leading spirit, bought large quantities of gold at the lowest point, early Thursday morning. About 10 o'clock, in accordance with the scheme agreed on, they simultaneously telegraphed to their ten correspondents to purchase fifty thousand dollars in gold, *without limit as to price, but limiting the time to ten minutes after receipt of instructions.* The effect was instantaneous. Ten brokers in the New York market, each one eager to earn his commission, without limit to price, all *bidding against each other*, of course gold went up with a bound. At this point the ten conspirators unloaded their gold at a handsome profit, and instantly sold gold short, or, in other words, agreed to deliver to purchasers at a less figure than the maximum, knowing as they did that gold would fall when relieved of the pressure they had put upon it. It did fall, and they again bagged a handsome return at the expense of their fellow-gamblers, who are, of course, savage at the way they have been 'wrung out.' We have it from the best authority that their profits averaged one hundred thousand dollars apiece."

Rush for New York.—Six different parties within our knowledge, took their departure for New York per last steamer, heavily laden with various grades of mining stocks to suit the tastes of Eastern purchasers. There is nothing like giving our friends at home a good assortment to select from, seeing they are determined to invest and become "wealthy in a day."

Board of Brokers.—The directors of a joint stock company of brokers in London, at their recent annual meeting, had a regular fight. Sticks were used, heads were broken, and the police called in.

We have heretofore labored under the impression that our brother brokers in Merry Old England were of the most orderly character; but now we see that they also have their occasional "knock-downs." It is foolish business, this "breaking of heads" over stock transactions.

Dissolution of a Mining Corporation.—The Tajo Gold and Silver Mining Company has filed its application in the County Court for a decree of dissolution. This company was organized about a year ago for the purpose of mining at or near the City of Rosario, in Sinaloa; but it being found inconvenient and undesirable to continue to transact the business under its present corporate form, owing to the peculiarities of the Mexican mining laws, under which the above mine was owned and worked, the above petition for dissolution has been filed.

Blanks for Secretaries.—Blanks, suitable for filling out for advertising, furnished gratuitously to advertisers in the Press, upon application to the office.

Machinery.—Three teams laden with 40,000 pounds of machinery for a quartz claim on Cedar Ranch, near Sonora, left Stockton on the 23d inst.

Ready For Action.—The old Ogden & Wilson mill in Six Mile Cañon, has been overhauled and is now ready for service again.

In Operation.—The new steam mill, recently built by the Mina Rica Mining company, situated near Camp Flores, is now in full operation, and works finely.

Enlarging.—The proprietors of the Pioneer Woolen Mills, at Black Point, intend to enlarge their factory at an early day. This is a good sign as to the increase of business.

On Exhibition.—Several bags of excellent looking rock, said to have been taken from the Golden Rule claim, located in Tuolumne county, have been exhibited within the past few days on Merchant street, near Montgomery.

Reducing.—The Mount Ellen Mining Company have filed in the County Clerk's office, a certificate for the reduction of their capital stock from $600,000 to $360,000, thus making the par value of shares $200 instead of 500 each.

Truly Liberal.—The workmen employed by the Gould & Curry Mining Company, Virginia City, are having a silver brick made, which, when completed, will be worth $5,000, and will be presented to the Sanitary Fund. This is true liberality, surely.

Good Return.—The Blue Gravel claim (placer) at Smartsville, cleaned up, after a run of two weeks of their mill, the snug sum of $44,000. This company, we believe, has recently erected a mill for the crushing of their cemented gravel.

Another Iron Foundry.—Another new and extensive iron foundry is to be erected in this city, by the Vulcan Iron Works Company, which has been duly incorporated, with a capital stock of $250,000, in $100 shares. Messrs. P. Torquet, Richard Ivers C. R. Steiger and Samuel Aitken, are the Trustees.

Another Dissolution.—Judge Cowles, of the County Court, has granted in chambers an order dissolving the Kentucky Copper Mining Co., which desires to re-incorporate under another name. The mine of this Company is located at Copperopolis, Calaveras county.

Insurance Suit.—The Merchants' Mutual Marine company have instituted a suit in the Fourth District Court against one Charles Hare, for the sum of $763.75, due on a policy of insurance issued to the plaintiff by defendant upon a cargo shipped by the latter to New York, per ship "Lizzie Moses."

Owens River Country.—The intelligence that is constantly being received in this city from the Owens River country, is very flattering. The miners seem delighted with their present success and future prospects. The climate, they say, is magnificent.

Black Lists.—We hear that the various "black lists" in the different boards are gradually becoming filled with the names of their unfortunate members who cannot make their "contracts good." Rather severe on you, gents; but "what can't be cured must be endured."

Fatal Accident.—Mr. W. O. Thompson was killed at his claims, located at Chili Gulch, Calaveras county, while working in the shaft, by a large piece of rock falling on him. He was near 35 years of age, and a native of Pennsylvania.

In Town.—Mr. Cummings Cherry, who is considered by the mining community to be one of the most thorough and practical Superintendents in our State, at present Superintendent of the Seneca Mining Co., Virginia, paid us a short visit, a few days ago. We were pleased to see friend Cherry looking so hearty and well, and wish for him a pleasant time during his sojourn among us.

On the Shoulder.—On the afternoon of the 26th inst., quite a lively and scientific display in the "manly art of self defence," came off on Front street, between two individuals doing business in that vicinity. The cause of this highly spirited contest, we learn, was respecting some mining operations. It appears that the parties were unable to settle their argument by mere words, (as they were not *striking* and *forcible* enough) so they concluded to "wind up" the controversy by a social knock down. They went about it in good earnest, and after a few "tussels"—"pugilistic grips," etc., they both "beat to grass." Upon "time" being called, both seemed perfectly satisfied of the fact that they each had enough and that they were making consumats fools of themselves, and furthermore as one was the possessor of a romantic eye, shrouded in mourning, and the other of an enlarged nasal organ, they made all possible haste for their respective places of business—we hope wiser if not better men.

Election of Officers.—At a meeting held at Virginia City by the Santa Fé Mining Company, on the 20th of May, the following gentlemen were duly elected for the ensuing year: Trustees—H. N. Conger, F. A. Marston, J. P. M. Perham, F. W. Earl, and A. G. Rhoads. The Trustees then elected H. N. Conger President; F. A. Marston, Secretary; J. P. M. Perham, Treasurer; and F. W. Earl, Superintendent.

Is it not so?—There are thousands of almost penniless and disappointed men, picking up a precarious living at the extremity of life because they have, in the course of their existence, tried over a hundred different things, and abandoned all in turn, because success was not instantaneous. To a few men only is it given to do more than one or two things well. There is scarcely any pursuit that if followed out with singleness of purpose, will not yield a rich return.

A New Stock Board.—We see it stated by a number of papers that a new stock board, under the control of Geo. W. Dent, Daniel Norcross, A. H. Murdock, Charles A. Crane and E. L. Smith, purpose purchasing from Mr. Thomas Wallace his right, title and interest in his "Open Stock Board." We stated, some time ago, upon what we considered good authority, that Mr. Wallace had disposed of the interest in question; but, from the above remarks, we suppose the sale has not as yet been consummated.

Boston on Stocks.—Recent advices received from Boston remark that the people are having lively and exciting times over mining stocks. They have at last, so it appears, caught the disease which has, for some time past, been prevailing in New York City, known as "feet on the brain." There are now *only* two hundred companies on the market having offices in that city, and the prospects are, and especially if greenbacks are "thrown around so carelessly," that the companies will amount to thousands, instead of hundreds.

East Lynne G. and S. M. Co.—We have inspected, during the past few days, a large lot of splendid paying rock taken from this well known and popular lead, located in Inyo District, Tulare county, Owens River. We notice, upon examination, that the rock is of quite a soft nature, which will render it much easier for working purposes. The news received from the mine is of the most encouraging character. The majority of the stock, we learn, is held by a few private hands, composed mostly of the original locators of the claim, consequently very little of it is changing hands. We, however, quote one sale within our knowledge, during the week, of fifty shares at $27, buyer thirty days. The locators are enterprising and deserving young men, and we wish them every possible success in their enterprise.

Daily Morning Message is the title of a new paper just commenced at Gold Hill, N. T. It is published by George W. Bloor & Co.

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and the Place of Business of the Corporation if it is not in San Francisco.

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Astor, Ravenswood, 50 cents.....Sale June 29*
Amador Cons., Amador, R. R., $5.....Sale June 15
Amageza, Salt Spring, four dollars.....Sale June 11
Agmemnon, Kelsey, 5c, 3c and 5c.....Sale June 14
Arlington, St. Mary's, 10 cents.....Sale June 8
Arizona Cons., Eureka, 20 cents.....Sale June 15
Argent Oro, Reese River, $1.....Sale June 18
Alhambra, $1.....Adv. May 12—Sale June 10
Altaville Quartz, Calaveras county, $2.....Sale June 14
Alomania, San Antonio, $2.....Sale June 18
Alhambra Summit, $1.....Sale June 10
Arizona, Weaver, $1.....Adv. June 13—Sale June 25
Arizona, Weaver, 50 cents.....Sale June 13
Antelope, Low Divide.....Sale June 13
Arbitrios, Batopilas, Mexico, $2.....Adv. May 17—Sale May 28
Apache Chief, La Paz, 50 cents.....Sale June 13
Ancho, Inyo.....Adv. May 17—Sale June 16
Ætna, Esmeralda, $2.....Adv. May 20—Sale June 22
Antrim Cons. Slate Range, $1.....Adv. May 21—Sale June 22
Augusta, Calaveras county, $1.....Adv. June 28—Sale July 13
Alameda Coal, Alameda county, $1.....Adv. June 25—Sale July 9
American.....Annual Meeting, June 14

Blue Jacket, Devil's Gate, 25 cents.....Adv. June 25—Sale July 9*
Blue Dragon, Inyo, 20 cents.....Adv. June 25—Sale July 29*
Brewer, Silver King, 15 cents.....Adv. June 25—Sale July 7*
Bay City, Reese River.....Quarterly Meeting, May 30*
Butte, Reese River, 50 cents.....Sale June 4*
Big Blue Lead Cave, $1.....Adv. June 15—Sale June 27
Baja California, San Antonio, $1.....Sale June 7
Black Ledge, Reese River, 50 cents.....Sale May 28
Bay, Clayton, 50 cents.....Sale May 31
Baltic.....Sale May 30—Virginia
Buffalo, Calaveras, 50 cents.....Sale June 10
Buckeye, Devil's Gate, $3.....Adv. May 6—Sale June 13
Bella Vista, Cacachitas, $1.....Sale June 11
Bullion.....Sale June 2, Virginia
Black Prince, R. R., 50 cents.....Sale June 20
Beach & Paxton, Virginia.....Sale May 30
Black Rock Ledge, R. R., $1.....Adv. June 15—Sale July 2
Barreteros, Cosala, Mexico, $5.....Adv. June 15—Sale June 29
Bella Union, S. F.....Annual Meeting, June 1
Butte, Santa Clara, $1.....Adv. June 18—Sale June 29
Bajazett & Golden Era Cons., $5.....Levied May 13, Virginia
Best & Belcher, Virginia, $25.....Adv. June 20—Sale July 2
Blue Ledge, Lovell, R. R., 50 cents & 50 cents.....Sale June 25
Badger, Washington.....Adv. June 11—Sale July 1
Ben Bold, Washington, 15 cents.....Adv. June 24—Sale July 15
Baltic.....Meeting June 6, Virginia
Bixler, $2.....Adv. June 27—Sale July 18

Caledonia.....Sale June 18*

Cortez, Cortez district, $2.50.....Sale June 20*

Crown Point, Reese River, 50 cents.....Sale June 15*

Cedar, Esmeralda.....Annual Meeting June 6
Cocheco, Humboldt.....Sale June 1*
Caldwell, $1.....Adv. May 15—Sale June 15
Chicago, Reese River, $1.....Sale June 11
Crockett, Esmeralda, $2.....Sale June 9
Chollar, Virginia, $12.50.....Sale May 28
Chrysopolis, Virginia, $1.50.....Sale June 10
Catalina Cons., San Pedro, 10 cents.....Sale June 11
Cox & Rose, Reese River, $1.....Sale May 28
Cox & Rose, Reese River.....Annual Meeting, June 6
Copp, Sierra.....Sale June 11
Gole.....Sale June 8
Cosala, Cosala, $2.....Sale June 1
Cedar Hill.....Special Meeting June 4
Crown Point, Gold Hill.....Sale May 28
Cortez, Big Creek.....Sale May 23
Coral Hill, Amador, 60 cents.....Sale May 28
Cinnabar, Virginia, 50 cents.....Sale June 18
Coso, Coso, $1.....Sale June 1
Crown Lead, Mariposa county, $1.....Sale June 18
Clinton, R. R., $1.....Sale June 6
California, La Paz.....Sale June 15
Clinton, R. R., $1.....Adv. May 25—Sale June 6
Center, Empire, 25 cents.....Adv. June 15—Sale June 28
Coral Hill, cons. Amador.....Adv. May 15—Sale May 31
Coral Hill, Amador.....Annual Meeting June 8
Collombe, Gold Hill, 50 cents.....Adv. May 17—Sale June 17
Chollar, Virginia, $12½.....Adv. May 17—Sale May 28
Chollar, Virginia.....Quarterly Meeting, June 1
Consolacion.....Meeting June 13
Consolacion, Sinaloa & Durango.....Adv. May 14—Sale June 4
Comopolitan, Gopher, 50 cents.....Adv. June 18—Sale July 2
Caselli, Indian Springs, 25c & 25c.....Adv. May 20—Sale June 22
Crockett Cons., $2.....Adv. May 20—Sale June 9
Centrai.....Special Meeting, June 7
Chrysopolis, Low Divide, 30 cents.....Adv. May 24—Sale June 22
Coral, Amador, $3.....Adv. June 27—Sale July 9
Caledonia, Gold Hill, $3.....Adv. June 24—Sale July 6
Calaveras Iron Mountain, Cornwall, 50c..Adv. June 28—Sale July 13
Crown Lead.....Annual meeting June 7
Comet, 10 cents.....Adv. June 25—Sale July 6
Cinco Senora.....Meeting June 27
Chrysopolis, Low Divide, 25 cents.....Levied May 25

Dunkirk, Reese River, $1.....Adv. May 18—Sale June 4
Darrah, Amador, 50 cents.....Sale June 3
Diana, Reese River.....Sale June 3
Don Juan, Mochicahue, Mexico, 15 cents.....Sale June 21
Diamond.....Adjourned Meeting June 6
Dan'l Webster, Devil's Gate, $1.....Adv. June 25—Sale July 16
Del Rey.....Annual Meeting June 6
Daney.....Quarterly Meeting, June 6
Downey.....Meeting June 30
Daniel Webster, Sac., 30 cents.....Adv. May 25—Sale June 25

Eureka, Mineral Spring.....Sale, May 30*
Excelsior, Reese River District, 25 cents.....Levied March 22*
Equal Chance.....Annual Meeting June 13*
Enterprise, El Dorado Canon.....Cantion—Certificates sold*
Eureka, Calaveras county, 20 cents.....Sale May 30*
Eureka Mill, Big Creek, five dollars.....Sale June 11*
Exchange, Lander county, 25 cents.....Sale June 22*
El Dorado, Virginia, $2.....Adv. June 8—Sale June 22
El Dorado, Virginia, $2.....Sale June 11
Eclipse, Reese River.....Sale June 10
Ethan Allen, $1.....Sale June 4
Emilia, Guerrero, 25 cents.....Sale May 30
El Alamo de Sau Antonio, Sau Antouio, $1.....Sale June 10
Exchange, Low Divide, 13 cents.....Levied April 21
Eastern, R. R.....Annual Meeting June 6

Those marked with an asterisk (*) are advertised in this paper.

Eclipse, Russ, $5.....Sale June 25
Empress, Gold Hill, $3.....Sale June 11
Empire, Santa Cruz, 25 cents.....Sale June 22
El Dorado, Virginia, $2.....Sale June 22
El Dorado, Virginia, $2.....Sale June 11
Esmeralda.....Annual Meeting, June 6
Eagle, Quartz, Amador county, $1.....Sale June 15
Evening Star, Trinity, 50 cents.....Sale June 6
Evening Star, Trinity.....Meeting, June 30
East Range, Oro Fino.....Adv. May 14—Sale June 14
El Toro, Sinaloa, Mexico, $1.....Adv. May 14—Sale June 14
Echo, Gold Hill, $3.....Adv. June 16—Sale July 2
Eclipse, Sierra, 50c.....Adv. June 16—Sale June 29
El Taste, Sonora, Mexico, $5.....Adv. June 16—Sale June 27
Emilia, State of Guerrero, Mexico, 25c.....Adv. May 18—Sale June 6
Erie.....Meeting June 20, Austin, N. T.
El Taste, Sonora, Mexico, $4 37½.....Adv. June 20—Sale June 30
El Taste, Sonora, Mexico.....Meeting May 25

Fork, Blue Mountain.....Adv. June 17—Sale July 6
Flora, Reese River.....Annual Meeting, June 6
Fortuna, R. R., $1.....Adv. May 17—Sale June 14
Florida, R. R.....Special Meeting, June 1
Franco American, San Antonio, $10 & $1..Adv. May 18—Sale June 18
Fairview.....Adv. May 16—Sale June 15
Fellows, Quartz, Sierra.....Sale June 11
Flor de San Antonio, Mexico, $1½.....Ailv. June 25—Sale July 7
Federal & Republic, Virginia, 50 cents....Adv. May 27—Sale June 27.

Great Central.....Adv. May 20—Sale June 29*
Grafton, Reese River, 30 cents.....Adv. May 28—Sale June 15*
Great Central Tunnel, Virginia, 40c.....Adv. June 18—Sale July 6*
George Leet, Reese River, 50 cents.....Sale June 15*
Gobernadora, Lower California, $1.....Sales May 30 and June 11*
Great Central, Weaver.....Sale June 8*
Green Monster, Inyo, $1.....Sale June 22*
Gratten, Echo, 10 cents.....Sale May 28
General Grant, Slate Mountain, 50 cents.....Sale June 11
Governor Downey Cons., Buena Vista, $1.....Sale June 17
Guadalupe, 50 cents.....Sale May 28
Garibaldi, Aurora.....Sale May 25
Green, Gold Hill .....Sale May 25
Green, Gold Hill.....Anunal Meeting June 4
Gold Rock, Murphy's Camp.....Sale May 28
Germania, No. 2, 20 cents.....Sale June 14
Good Return, Inyo, 25c and 50c.....Sale June 8
Grand Turk, Gold Hill, 50 cents.....Sale May 31
Goodwin, Simpson Park, 25 cents.....Sale June 18
Goodwin, Simpson Park, 25 cents.....Sale June 10
Gunalahupe de Los Angeles, Durango, $1.....Sale June 21
General Hooker, 50 cents.....Sale June 16
Gold Hill, Coloma, 25 cents.....Sale May 30
Gopher, Gopher.....Sale May 21
General Rosecrans, Big Creek, 25 cents..Adv. May 31—Sale June 15
Gem Hill, Summit, 25 cents.....Sale June 10
Golden Circle, Amador.....Annual Meeting June 6
Gov. Seymour, R. R., 50 cents.....Adv. June 23—Sale July 7
Good Hope, Alpino, 75 cents.....Adv. Jnno 4—Sale July 18

Henry & Barnard, Weaver.....Sale June 1*
Hyack, Reese River, 20c and 30c.....Sales May 25 and June 15*
Hawley, Devil's Gate.....Sale June 1
Hartford, $1.....Sale May 30
Humboldt, Sierra, $2.....Sale June 4
Heidleberg, Tomales Pais, 10 cents.....Sales June 8
Hornitos, Mariposa, $1.....Sale June 8
Hawley, Lyon county, $2½.....Sale June 4
Humboldt, Humboldt county, $3.....Adv. May 28—Sale June 15
Highland Chief, Raymond, 25c.....Adv. Juno 14—Sale July 2
Hartford, Gold Hill, $1.....Adv. June 7—Sale July 18
Highlander, 10c.....Levied May 19
Hale & Nereross.....Adv. June 27—Sale July 16

Illinois, Lander county, 50 cents.....Sale June 18*
Itasca, Reese River, 40 cents.....Sale June 22*
Ironsides, Esmeralda, 25 cents.....Sale June 10
Insurance, Virginia, $1.....Sale June 20
Iowa, Esmeralda.....Sale July 2
Iturbide.....Quarterly Meeting, June 6
Iowa, Esmeralda, $2.....Sale June 13
Imperatriee, Eugene, Blue Mountain, 30c..Adv. June 11—Sale June 22
Ida, Lower Cal., 50c.....Levied May 14
Independent, R. R., $5.....Levied May 6, Gold Hill
Independent, R. R., $1.....Adv. June 21—Sale July 9, Gold Hill
1 X L, Silver Mountain, 50 cents.....Adv. June 23—Sale July 16

Joe Dongias, Reese River, 50 cents.....Adv. June 18—Sale July 2*
John J Crittendon, R. R., 25 cents.....Sale May 28*
Julia, Virginia.....Sale May 31
Jessup, Calaveras, $1.....Sale May 30
Josephine, Calaveras county, $1.....Sale May 30
Josephine, Coso, $1.....Sale June 27

Keokuk, 10 cents.....Adv. June 25—Sale July 13*
Kelsey, El Dorado county, 25c.....Adv. May 14—Sale June 13*
Kelsey, El Dorado county.....Sale Jnne 13*
Kentucky, Mine. Felix, 50 cents.....Adv. June 23—Sale July 10

Lord Byron, Devil's Gate, $1.....Adv. May 21—Sale June 4*
La Marronena, L. C.....Meeting June 5—Sale May 30*
Lewis Cons., R. R., 25c.....Adv. May 28—Sale June 15*
Logan.....Sale June 8*
Laura Johnson.....Sale June 3
Los Cruzecitas, San Xavier, $6.75.....Sale June 13
Lafayette, Gold Hill, $5.....Adv. May 18—Sale June 1
Langhorne Cons., Summit, 50 cents .....Sale June 3
Lady Bell, Del Norte county, 10 cents.....Sale May 28
La Providencia, $1.....Sale June 6
Lone Star, Reese River.....Annual Meeting June 6
Lady Bryan, Flowery, $3.....Sale June 25
London, Quartz, Siskiyou county, $1.....Sale June 11
Lyon & Leland Consolidated.....Sale May 30
La Candelama, Durango, Mexico.....Sale June 15
Lochinvar, Gopher, 30 cents.....Sale June 25
La Blanca, Ures, $2½.....Sale June 22
Las Posas, La Paz, $1.....Adv. June 13—Sale June 25
Las Posas, La Paz, 50c.....Sale June 13
Langhorne Cons, Summit, 50c.....Sale June 3
Legal Tender, Amador, $1.....Sale June 22
Live Oak, Washington, 25c.....Adv. June 11—Sale July 1
Lone Star, R. R., $1.....Adv. May 21—Sale June 22
Laura Johnson, Soledad, 50 cents.....Adv June 23—Sale July 9
Lone Star, R. R., $1.....Adv. May 21—Sale June 22
La Providencia, La Paz, $1.....Levied May 16
La Providencia, ...Special Meeting, June 10
La Providencia, La Paz, $1.....Adv. June 27—Sale July 10

Mechanics, Clayton, 5 cents.....Adv. June 25—Sale July 13*
Mount Zion, Clayton, 50 cents.....Adv. June 18—Sale July 6*
Mount Veruon, Smoky Valley, 50 cents..Adv. June 11—Sale June 25*
Mammoth, Rock Spring.....Sale May 28,
Minnehaha, Reese River District, 25 cents.....Levied March 22*
Mosquito, Calaveras County, $5 .....Adv. June 11—Sale July 1*
Morning Call, Big Creek, 50 cents.....Adv. June 11—Sale June 29*
Mountain Mary, Silver Mountain, 25c..Adv. May 28—Sale June 16*
Mount Eden, Gold Hill district .....Sale May 31*
Mammoth, San Bernardiuo, 50 cents.....Sale May 28*
Mount St. Helena, Bear, $1.....Sale June 2
Molones & Stanislaus, Carson Hill, $2.50.....Sale June 18
Monster Hill, Inyo, 25c and 50c.....Sale May 30
Minerva, Virginia, $25.....Sale June 4
Mouitor, Silver Mountain, $1.....Sale June 10
Mandat, Del Norte, 50 cents.....Sales May 10 and June 3
Metropolitan, Inyo, 25 cents.....Sale June 1

Magna Charta.....Special Meeting June 1
Mammoth Ledge, Low Divide, 50 cents.....Sale May 28
Mina Prieta, Ures, $40.....Sale June 18
Mountain Queen, R. R.....Sale June 11
Morning Star, Great Mogul, 25 cents, 50 cents, & 30 cents..Sale June 14
Melrose.....Sale May 21, Humboldt City
McLellan, Virginia, $2½.....Sale June 1
Melones Sink, Calaveras county, 15 cents.....Sale June 25
Monster, Cous. 25 cents.....Adv. June 17—Sale July 2
Monte Cristo, Gold Hill.....Adv. June 15—Sale July 1
Melones & Stanislaus, Carson Hill, $2.50...Adv. June 4—Sale July 18
Mandot, Del Norte. 50 cents.....Adv. June 15—Sale June 27
Mary and Estella, 15c and 10c.....Levied Jan. 19 and Feb. 20
Molten, Inyo.....Adv. May 17—Sale June 15
Manchester, Monitor, $1.....Adv. June 21—Sale July 6
Mina San Felipe.....Adv. May 21—Sale June 24
Mina San Felipe, 50 cents.....Levied May 12
Minerva Gold Hill, Gold Hill.....Adv. May 21—Sale June 4
Mineral Mountain, Carson Hill.....Sale June 25
Mountaineer, Humboldt county, 50 cents..Adv. June 23—Sale July 6

Nicolaus, Reese River, 25 cents.....Adv. May 28—Sale June 15*
Noonday, Contra Costa county, 20 cents.....Sale June 22*
North Potosi, Virginia, $12.50.....Sale June 11
North Star, Reese River.....Sale May 30
Nueva Fortuna, Cacachilas, 50 cents...Adv. May 18—Sale May 31
New England Cons., Santa Catalina.....Sale June 1
Nevada, Justice, $20.....Levied April 9—Virginia
North American, Gold Hill, $20.....Sale May 24—Virginia
Nebraska, Santa Catalina, 25 cents.....Sale May 30
New Era.....Annual Meeting June 6
Nevada, R. R.....Sale June 7
New England Cons., 5 cents.....Sale June 3
Nenpariel, Tuolumne county, $5.....Sale June 14
North Eclipse, Russ, 10 cents.....Sale June 20
North Lawrence & Guilford Cons. 50c.....Adv. June 25—Sale July 11
Norton, $1.....Adv. May 18—Sale June 13
Nelson Consolidated, Gold Hill, $2.....Adv. June 24—Sale July 7

Ontario & Webster, Montgomery .....Annual Meeting June 20*
Ontario & Webster, Montgomery .....Adv. June 25—Sale July 9*
Orient, Inyo.....Adv May 28—Sale July 6*
Ophir of the Colorado, El Dorado C,, $2..Adv. June 18—Sale July 2*
Ophir, El Dorado Canon, 15 cents.....Ad. June 8—Sale June 20*
Oxford Beta, Silver Hill, 50 cents.....Sale June 29*
Ophir of Colorado No. 1, Colorado.....Sale June 11*
Occidental, Soledad, 30 cents.....Sale June 15
Omega Gold Hill, Virginia, $25.....Sale June 4
Overman, $30.....Levied April 16—Gold Hill
Original Cræsus, Sierra, $1.....Sale June 20
Original Cræsus, Sierra, $3.....Sale June 20
Old Hickory, Amador, Reese River, $1.....Sale June 10
Oceola.....Sale June 3—Virginia
Oceola, Summit, 25 cents.....Sale June 10
Oceola, Summit, 25 cents.....Sale June 3
Ophir of the Colorado, Arizona, $2. Advertised June 18—Sale July 2*
Olive City, Weaver.....Sale June 13
Oxford Beta, Esmeralda, 50 cents.....Adv. May 16—Sale June 22
Omega Gold Hill, Gold Hill.....Adv. May 31—Sale June 6
Olympic, Big Crock, 50 cents.....Adv. June 25—Sale July 13

Potomac, Reese River, $1.....Adv. June 26—Sale July 11*
Point Arena Petroleum, Mendocino county....An. Meeting June 25*
Palmyra Consolidated, Palmyra.....Sale June 13*
Prima Donna, Devil's Gate District.....Sale June 15*
Palma, Ures district.....Sale May 30*
Pena, Lower California.....Meeting June 8—Sale May 30*
Pearsen, Lander county, 25 cents..... ... .Levied March 30*
Peacock, Reese River, 25 cents,.....Sale June 22*
Progress, Reese River, $1.....Sale June 18
Pride of Nevada, Reese River, 25 cents.....Sale June 14
Paget, El Dorado county, 50 cents.....Sale June 15
Pactolus, Devil's Gate, 50 cents.....Sale June 4
Pernvian, Devil's Gate, 50 cents.....Sale June 15
Progress, Reese River, $1.....Adv. June 4—Sale June 18
Peytona, Virginia, $2.....Adv. June 17—Sale June 30
Patrocinia & Dolores, Chihuahna, $6.....Adv. May 19—Sale June 12
Porter, Virginia.....Annual Meeting June 4

Queen of Antilles Cons, Lander, 25c.....Levied March 30*
Queen of the Mountain, Big Creek, 25 cents.....Sale June 15

Refugio, Chihuahna.....Adv. May 21—Sale June 21*
Rose Linda M. & M. Co., Amalor co., 50c.....Adv June 1*
Royal Eagle & Cliff, Gold Hill District.....Sale June 15*
Rubicon 1, 2, 3 and 4, Keys district...Adv. May 28—Sale June 17*
Rubicon No. 2, Keys.....Sale June 7*
Rubicon, No. 3, Keys, 10 cents.....Sale June 14*
Rubicon. No. 4, Keys, 10 cents.....Sale June 14*
Revenue, Reese River, $1.....Sale June 18
Rockwell, Ravenswood, 50 cents.....Adv. May 17—Sale June 4
Red Jacket, Reese River.....Sale May 31
Rose, Humboldt, $1.....Sale June 15
Realto, Alamos, Mexico, $1.....Sale May 23
Rhode Island, Keys, 10 cents.....Sale July 12
Ruba, R. R., 25 cents.....Levied March 31
Rancharia, Quartz.....Meeting, June 6
Regina, Inyo, 15 cents.....Sale June 17
Red Cap, Amador, 50 cents.....Adv. June 15—Sale July 11
Relief, 10 cents.....Levied May 19
Roanoke, Illinoistown.....Adv. May 20—Sale June 4
Rochester, Cons.....Annual meeting June 21
Reese River, R. R., 25 cents.....Adv. May 21, Sale June 27
Rancharia, Quartz.....Adv. May 25—Sale June 25
Rambler, Slate Range, 50 cents.....Adv June 14—Sale June 25
Rio Chico, Alamos, Mex., $1½.....Adv. June 16—Sale June 27
Real del Minos.....Aunnal meetrug, June 16

St. Lawrence, Inyo.....Adv. May 28—Sale July 6*
Suerte, Carmen Island, 25 cents.....Adv. June 25—Sale July 11*
Salt Spring Valley, Calaveras county....Adv. May 28—Sale June 11*
Siskiyou Lion, Siskyon county, 50 cents..Adv. June 25—Sale July 12*
San Lorenzo, Santa Cruz, 50 cents.....Adv. June 25—Sale July 11*
Summit Pass, Tuolumne county.....Annual Meeting June 14*
Segregated Crown Point, Gold Hill, $26.....Sale June 25*
Storm Cloud, Reese River.....Annual Meeting May 30*
Scottie.....Sale May 31*
Scorpion, Virginia district.....Sale June 11*
Silver Star, Virginia dist, 25 cents.....Adv. May 21—Sale June 8*
Smith & Martin, Reese River.....Sale June 13*
Salt Spring Valley, S. S. Valley, 10 cents..Sale June 1—Jenny Lind
Stonewall Cons., Last Chance Hill, $1.....Sale June 15
Santa Rita, Inyo, 25 cents.....Sale May 30
Salinas.....Sale May 30
Standard, Reese River, 50 cents.....Sale June 8
Santa Teresa, Mexico, $2.....Sale June 3
Sacramento & Meredith, Cedar Hill, $2.50.....Sale June 8
Sickles Colorado Prospecting, $50.....Levied April 16
Spanish.....Sale June 1—Virginia
Sides.....Sale May 20—Virginia
Sutro, $1.....Levied April 30—Virginia
Sixty-Ninth.....Sale May 23—Nebraska
San Francisco, Gold Hill, $3.....Sale June 28
San Marcial, Sonora, Mexico, $1.50.....Sale June 22
Sailor, Blue Mountain, 20 cents.....Sale June 16
San Carlos.....Quarterly Meeting June 8
San José de Ventanos, San Demas, $5.....Sale June 17
Stanislaus, Calaveras, 50c.....Sale May 28
Slate Mountain, Slate Mountain, 25c.....Sale June 25
Stearns C R, 25c.....Sale June 28

Santa Rosa, Virginia, $1 ..... Sale June 8
South Crown Point, $2 50 ..... Sale June 18
Snell, Alpine ..... Sale June 15
Silver Circle, R R, $1. ..... Sale June 25
Salvatierra, La Paz, ... Sale June 15
Soledad, Soledad ..... Annual Meeting June 13
Santa Cruz, San Antonio, $2 50. ..... Sale June 23
St George, Storey Co, $1 ..... Sale June 20
Santa Rosa, Inyo, 40c. ..... Sale June 20
South Eclipse, Russ, 10c ..... Sale June 20
Santa Rita, Inyo 50c ..... Sale June 20
Sonoma Co, R R, 25c. ..... Levied March 31
San Fran Gold Hill, $1 ..... Sale June 4
San Fran, Gold Hill, $1 ..... Sale June 13
Soledad Hill, Soledad, $5. ..... Adv. May 19—Sale June 8
San Carlos, Inyo, $1 50 ..... Sale June 8
Silver Age, Amador, 60c. ..... Sale June 9
Sierajre Vivia, Zarigoza Mex, $1 ..... Sale June 20
Sirene, West Pt, 98c ..... Sale June 25
Sisters, Augusta, 15 cents. ..... Adv. June 25—Sale July 25*
San Francisco, Gold Hill and Virginia, $3...Adv. June 8—Sale June 28
Stearns, Reese River, 25 cents. ..... Adv. June 13
San Jose de Ventanos, San Dennis, $5.....Adv. June 5—Sale June 17
South Eclipse, Russ, 10 cents. ..... Adv. June 5—Sale June 20
Santa Rosa, Inyo, 40 cents. ..... Adv. June 5—Sale June 20
Scorpion, Virginia, 50 cents. ..... Adv. June 11—Sale June 29
Santa Rita, Inyo, 50 cents. ..... Adv. June 5—Sale June 20
Stonewall Cons., Last Chance Hill. ..... Adv. May 30—Sale June 15
Scott, Humboldt county, $1.50 and $1. ..... Adv. May 27—Sale June 8
Starlight, Humboldt county ..... Sale June 13
Sierra ..... Sale June 13
Santa Rosa de Ures, Ures, $1. ..... Adv. June 17—Sale July 1
Sunset, Amador, 50 cents. ..... Adv. June 15—Sale July 11
San Simon, San Luis Obispo county, 50c. ..... Adv. June 15—Sale June 30
Shoshone, Lander county ..... Annual Meeting June 8
Sierra Nevada, Virginia, $10. ..... Adv. June 18—Sale June 30
Sonoma, Alpine, 15 cents. ..... Adv. June 11—Sale June 22
Sonoma County, Cloverdale, 20 cents. ..... Adv. June 21—Sale July 9
San Carlos ..... Annual Meeting June 8
San Nicolas, Durango, Mex., $6. ..... Adv. June 20—Sale July 2
Sierra Cons. 25 cents. ..... Adv June 24—Sale July 11
St. Louis, R. R., $1. ..... Adv. June 24—Sale July 8
Salamander, Hill Valley, 10 cents. ..... Adv. May 24—Sale July 11
Sharron, Gold Hill, $1. ..... Adv. May 25—Sale June 15
Seneca, Cons., Virginia, $5. ..... Adv. June 27—Sale July 11
St. Paul, Amador ..... Sale June 1
Siskiyou, Humbug, $1. ..... Adv. June 24—Sale July 16
Sears, Reese River, 25 cents. ..... Adv, May 11—Sale June 1
Seely, Big Creek, 58 cents. ..... Adv. June 25—Sale July 16

Table Mountain, Calaveras county ..... Annual Meeting June 13*
Tornado, Colorado, 50c and 50c. ..... Sale June 13*
Tuolumne, San Francisco District. ..... Adv. June 11—Sale June 29*
Tellurium, Amador county, $1. ..... Adv. May 21—Sale June 4*
Table Mountain, Calaveras county ..... Sale June 1*
Tulare, Inyo, 25 cents. ..... Sale May 28
Tennessee, Echo, 50 cents. ..... Sale June 18
Teutonia, Gold Hill, $1. ..... Sale June 4
Tecolota, San Damas, $1. ..... Sale June 14
Tajo ..... Qrtly Meetg June 6
Tesoro ..... Qrtly Meetg June 6
Tesoro & Jones River Cons, R R. ..... Sale June 10
Techattucup, Colorado, 40 c ..... Sale June 18
Techattucup, Colorado ..... Annual Meeting June 1
Tranquillon, Fresno Co, 50c ..... Sale June 7
Tecolate, San Dimos, Mex, $1 ..... Sale June 14
Talcander, Hamilton, 25c. ..... Sale June 21
Triunfo, San Antonio, 50 cents. ..... Adv. June 7—Sale June 17
Triunfo, San Antonio, $4. ..... Adv. May 14—Sale June 15
Tattulah, Sierra. ..... Special Meeting June 6
Tulare, Inyo, 40 cents. ..... Adv. June 16—Sale June 27
Tesoro, La Paz. ..... Adv. May 24—Sale June 25
Teutonia, San Miguel, 10 cents, 10 cents...Adv. May 25—Sale June 25
Teutonia, Gold Hill, $1. ..... Adv. June 13—Sale July 14

United States, Lander county, 3c and 5c..Adv. May 21—Sale June 20*
Union No. 2, Reese River, $1. ..... Sale June 4
Uncle Abe, Inyo, 50 cents. ..... Sale June 7
United Cosmopolitan, French Corral, 25c ..... Sale June 7
Utah, Esmeralda. ..... Annual Meeting June 6
Utah, Esmeralda. ..... Annual Meeting June 6
Upper Lisle, Inyo. ..... Adv. May 17—Sale June 16
Utica, Calaveras county. ..... Annual Meeting June 7

Valparaiso, Tuolumne, 4 assis, $3. ..... Sale June 15
Vivion, B S Springs, $1 25. ..... Sale June 6
Victor Hugo, Gold Hill, $2. ..... Sale June 30
Veatch, Clifton, N. T., $1 and $2. ..... Adv. May 6—Sale June 6

Wide West, Calaveras county. ..... Adv. May 28—Sale June 13*
Wilson, Echo, $1. ..... Adv. May 21—Sale July 2*
Whitton, Silver Mountain, 50 cents. ..... Adv. May 21—Sale June 9*
Wm. Mitchel, Silver Mountain. ..... Sale June 15*
Wide West, Calaveras county. ..... Stockholders' Meeting May 31*
Wall Street, Reese River, 50 cents. ..... Sale June 15*
Walipi, San Francisco District. ..... Sale June 11*
West End, Slate Mountain, 50 cents. ..... Sale June 20
White & Murphy, Virginia, $7.50. ..... Sale June 14
Weal Chance, Flowery, 37½ cents. ..... Sale June 13
Whitman, Indian Springs, $10. ..... Sale June 1
White Cloud, Virginia, $1. ..... Sale June 22
Willow Cons., Summit, $1. ..... Sale June 3
Whittatch, R R, $5. ..... Sale June 24
Wellington, Santa Catalina, 25c ..... Sale June 21
Wisconsin, Virginia, $2. ..... Sale June 1
Washington, Reese River, 50 cents. ..... Adv. June 18—Sale July 2
Washington, V. & G. D. Cons., Chelon, 25c. Adv. June 9—Sale June 19
Willow Cons. ..... Meeting June 19
Worden, Monitor, $1. ..... Adv. May 21—Sale June 1
Washington, R. R., 50 cents. ..... Adv. June 25—Sale July 9
Wide West, Esmeralda, $5. ..... Adv. June 24—Sale July 9

Yellow Monster, Inyo, 25 cents. ..... Adv. June 5—Sale June 20
Yankee Blade, Reese River, $2. ..... Sale June 20
Yosemite, Reese River, 25 cents.. ..... Sale June 4
Yosemite, Oro Fino, $3 ..... Levied Feb 9
York River, R R, ... Sale May 30
Yellow Monster, Inyo, 20c ..... Sale June 20

Zenith, Mountain Ranch, 60 cents. ..... Sale June 18

[The mining community begin to appreciate our reasonable rates of advertising, and are turning their patronage to the journal most properly entitled to receive it. The advantage to shareholders of having all mining notices concentrated in one mining journal, is obvious to all, and our terms have been established with a view to effect such a consolidation; and most companies having an object for publishing in any other particular paper, can consequently afford to have their notices appear in our journal also.—Eds. Press.]

Keokuk Gold, Silver and Copper Mining Company, Clayton Mining District, Contra Costa County, California.

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 26th day of May, 1864, an Assessment of Ten (10) cents per Share was levied upon the Capital Stock of said Company, payable immediately, in United States Gold Coin, to the Secretary, at the office of the Company, No. 322 Front street or to J. W. Cassiday, at the mine.

Any Stock upon which said Assessment shall remain unpaid on Saturday, the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 13th day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the Sale. By order of the Board of Trustees.

A. B. WINEGAR, Secretary.

22-4t Office, 322, Front street, San Francisco.

San Francisco Stock and Exchange Board.—Prices Bid and Asked.

WASHOE STOCKS.	FEET.	SHARES.	VAL.	Saturday. BID.	Saturday. ASKED.	Monday. BID.	Monday. ASKED.	Tuesday. BID.	Tuesday. ASKED.	Wednesday. BID.	Wednesday. ASKED.	Thursday. BID.	Thursday. ASKED.	Friday. BID.	Friday. ASKED.
Ophir	1,200	16,800	300	1,175	1,200	1,215	1,225	1,135	1,200	1,125	1,200	1,150	1,175	1,020	1,075
Gould & Curry	1,200	4,800	500	3,875	3,950	3,900	3,900	3,950	3,975	3,925	4,000	3,850	4,000	3,900	3,950
Savage	800	800	2,000	1,875	1,900	1,900	1,950	1,910	1,925	1,900	2,000	1,850	—	1,910	1,950
Chollar	1,400	5,600	800	625	700	600	625	620	630	625	635	600	650	—	—
Potosi	1,400	2,800	500	700	—	—	—	—	—	660	900	—	950	—	—
Hale & Norcross	400	800	500	510	—	—	—	500	—	520	—	551	—	500	600
Sierra Nevada	3,000	3,000	500	55	—	55	—	56	60	58	60	58¼	65	57½	65
Dancy	2,000	800	60	50	75	—	—	65	70	60	65	67½	80	70	80
Burning Moscow	4,100	4,100	500	61	63	68	71	67	68	67¼	68	69	70	65	70
North Potosi	2,000	2,000	250	82	83	80	83	73½	75	75	76	72	73	80	82
Charles Cany	1,800	1,800	50	—	—	—	—	—	—	—	—	—	—	—	—
Iowa	1,200	1,200	1,000	—	30	—	—	—	—	—	—	—	—	—	—
El Dorado	1,600	1,600	500	—	40	—	—	—	—	25	40	20	40	25	—
Norton	1,600	1,600	50	—	4	—	—	—	—	—	—	—	—	—	—
Burnside	2,800	2,800	500	2	5	—	6	—	—	—	—	—	—	—	—
Adriatic	2,700	2,700	100	—	—	12½	13	—	10	—	10	—	6	—	6
Pride of the West	1,400	1,400	100	17	20	18	25	10	13	10½	12	—	—	12¼	13
Imperial	180	4,000	500	—	—	—	—	17	20	16	—	15	20	16	25
Crown Point	600	1,200	100	—	—	—	—	160	165	—	170	160	170	160	165
Manhattan	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Seneca	—	—	—	27½	28	—	28	30	33	30	31	30	31	26	28
Mt. Davidson con't	1,000	1,000	200	—	2½	—	—	—	—	—	—	—	—	—	—
Caledonia Tunnel	—	—	—	12½	17	—	—	—	15	—	15	—	15	5	15
Bajazet & G. Era	4,000	4,000	300	—	—	—	30	—	30	—	—	—	—	—	30
Cedar Hill tunnel	—	1,000	100	—	—	—	—	—	—	—	—	—	1	—	—
Gold Hill Qu'tz Mill	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ESMERALDA.															
Wide West	1,400	1,400	2,000	20	22	20	23	20	23	20	23	17¼	19	—	20
Antelope	1,200	1,200	500	145	160	—	—	146	—	150	175	150	175	150	176
Esmeralda	1,600	1,600	1,000	—	—	—	—	5	10	5	8	—	—	2½	5
Real del Monte	4,400	4,400	400	49	50	47½	48	49	50	49	50	51	52	48	49
Utah	1,600	1,600	250	23	35	—	—	—	—	—	—	—	—	—	—
Silver Hill	3,000	3,000	500	—	—	—	—	—	—	—	—	—	—	—	—
Nevada	600	1,200	250	—	—	—	—	—	—	—	—	—	—	—	—
Falls of Clyde	6,000	6,000	100	—	—	—	—	—	1	—	—	—	—	—	—
Bamboo	600	600	500	—	—	—	—	—	—	—	—	—	—	—	—
Crockett	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Federal Hope	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Jenny Lind	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Coso.															
Josephine	9,600	4,800	2,500	1	—	1	—	1	3½	1½	4	1½	4	—	—
Willow Springs	2,700	2,700	100	—	—	—	—	—	—	—	—	—	—	—	—
Coso	2,600	3,600	600	—	—	7	—	5	—	5	—	6	—	2	5
COPPER.															
Napoleon	2,700	2,700	600	—	85	—	80	—	—	79	—	—	—	—	80
Josephine	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CALIFORNIA.															
Laurel Hill	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rhodes Diggings	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fellowes	2,500	2,500	100	—	—	—	—	—	—	—	—	—	—	—	—
Maxwell	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rock River	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Eureka	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HUMBOLDT STOCKS.															
De Soto	1,980	1,980	100	—	—	—	—	—	—	—	—	—	—	—	—
Great Basin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

City Stock Reports.

Sales of Mining Shares

For the week previous to Saturday, May 28, 1864.

By the San Francisco Stock and Exchange Board, Pacific Board of Brokers, Stock Exchange and the City Stock Exchange Board of Brokers

NAMES OF COMPANIES.	SHS. SOLD.	LOWEST.	HIGHEST.	CLOSING.	AM'T SOLD.
Adriatic	384	10½	15	12¼	4895
Burning Moscow	610	62	77	77	33862
Baltimore American,	15	48	50	48	730
Buckeye,	130	8¾	12½	8	1362
Blue Ledge,	80	17½	20	19	1503
Baltic,	40	76	85	85	5105
Best & Belcher	5	820	820	820	4100
Burnside,	35	5	6¼	5	202
Chollar,	212	585	660	625	34860
Crockett,	205	7¾	8¾	8¾	1385
Caledonia Tunnel,	15	15	15	15	225
Crown Point Ravine	4	5	5	5	20
De Soto,	5	20	20	20	100
Esmeralda	142	3½	3½	3½	497
El Dorado	15	17	18	18	180
Golden Age & Empire	410	30½	40	31	50181
Gen. Grant	95	22½	38	35	2097
Gould & Curry	24	3000	4000	3900	23470
Green,	110	6	7	6	748
Harmon,	74	17½	35	20¼	1072
Imperial,	20	165	175	175	3400
Kohler Brothers,	62	12	13½	13½	885
Lady Bryan,	3349	25	45	28	107640
Lancaster,	26	11	31¼	31½	312
Michigan, G. H.	10	35	35	35	388
Melones,	70	17	26	24	1100
Melones Sink	110	9	14	12	1270
North American,	378	105	105	100	54713
Nevada, J. G.	35	67½	77½	67½	1887
North Potosi,	700	73	87	81½	60820
Norton	13	3	3	3	39
Ophir,	84	1100	1215	1100	324800
Peytona,	30	8	13	9	295
Real del Monte,	166	47¼	54½	61	8779
Realto	10	1	1	1	10
Savage	6	1900	1910	1910	12546
Seneca,	234	27	30	30	7740
Spanish, No: 2	6	15	15	15	75
Silver Hill	4	6½	6½	5½	22
Sierra Nevada	30	56½	58	58	1702
Sacramento & Meredith	60	60	00	60	360
Smith & Martin	15	4½	4½	4½	67
San Carlos	11	8	8	8	80
Uncle Sam,	12	700	725	710	8485
Uncle Sam, F. D.	185	1½	2	2	290
Wide West,	100	16	25	16	1735
Yellow Jacket	5	750	750	750	3750
Sales for the week	.....	.....	.....	.....	890,685

Gold in New York.

Friday, May 20 ..... 184.
Saturday May 21 ..... 183.
Monday May 23 ..... 182@182¼.
Tuesday May 24 ..... 183½.
Wednesday, May 25 ..... 185½.
Thursday May 26 ..... 184@183.

Legal Tender Notes.

San Francisco, Friday, May 27 ..... 67½ per cent.

Reese River Stock Board—No transactions, of any importance have taken place in the Reese River Stock Board, since our last quotations. The prices offered have not been sufficient to bring out any sellers, except in a single transaction of five feet in Smith & Martin, which sold at $5 per foot. The depression in the Stock market appears to be universal on the Pacific Coast.

The Greenback Question in the Stock Boards. The Virginia Stock Boards, as elsewhere intimated, have sought to remove the present stringency in the money market, in Nevada Territory, by the introduction of greenbacks as currency, instead of coin. They have issued an address and series of resolutions, detailing a plan of action. They propose to start by putting all transactions of the stock market on a legal tender basis, and suggest that a convention be held on the 12th of June, at Virginia City, to agree upon a day after which greenbacks shall be adopted as the currency of the Territory.

A correspondent was appointed some days since to confer with the several stock boards of this city upon the subject. The "San Francisco Stock and Exchange Board," promptly appointed a committee to consider the proposition, which committee made a report yesterday adverse to the propositiou, which report was adopted by the Board, with instructions to the Committee to communicate the action to the Virginia Boards.

The Pacific Board of Brokers have also appointed a committee to consider the subject, which has not, up to the present writing, reported. It is thought, however, that the same action will be taken as in the First Board. Whether the adverse action of the San Francisco Boards will have any effect to modify the course of the Virginia Boards remains to be seen.

Blue Jacket Gold and Silver Mining Company, Devils Gate District, Lyon County, Nevada Territory.

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 26th day of May, 1864, an Assessment of 25 cents per Share was levied upon the Capital Stock of said Company, payable on the 30th day of May, 1864, in United States Gold Coin, to the Secretary.

Any Stock upon which said Assessment shall remain unpaid on Saturday, the 25 day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 9th day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the Sale. By order of the Board of Trustees.

WM. A. BURT, Secretary.

22-4t Office, 212 California street, San Francisco.

Siskiyou Lion Mining Company, Siskiyou County, California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 26th day of May, 1864, an Assessment of Fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, to the Secretary, in U. S. Gold Coin.

Any stock upon which assessment shall remain unpaid on Saturday, June 25th, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, July 12th, 1864, at 12 o'clock M., to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

JAS. C. NORRIS, Secretary.

Office, No. 430 Jackson street.

San Francisco, May 27th, 1864. 22-4t

Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

DEWEY & CO., Publishers.

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For sale by Carriers and Newsdealers.

San Francisco:

Saturday Morning, May 28, 1864.

ENLARGEMENT.—We issue, to-day, *Twenty-four Pages*, an increase of *Twenty-four Columns* above the size to which the MINING AND SCIENTIFC PRESS was enlarged on the 1st of January last. We are determined that the generous patronage extended us by those persons who appreciate our liberal rates, and the superiority of this journal as a medium for MINING ADVERTISEMENTS, shall not decrease the amount of space given to reading matter; but as our means increase, we shall spare nothing till every department of the paper is rendered as perfect as possible. At the close of the present volume, on the 1st of July next, we anticipate changing the form of the PRESS, and arranging our advertisements alphabetically.

MINING SHARE MARKET.

The Mining Share Market still continues very much depressed, and speculative shares are generally offered at a decline, although now and then one is found which exhibits some improvement in its figures. New developments at the mines are awaited with much anxiety, as the only thing which can restore confidence. The business of the week foots up at $890,685, a slight improvement over last week.

Ophir shares opened at $1,200 on Saturday, advanced to 1,215 on Monday, but dropped to 1,100 on Thursday.

Gould & Curry opened on Monday at $3,900, advanced to 3,970 on Tuesday, touched 4,000 on Thursday, but dropped again to 3,900 yesterday, with limited business.

Savage had a small business at from $1,900 to 1910; nine feet have changed hands.

Yellow Jacket has dropped to $750; but a single transaction is noticed.

Potosi has not been heard from.

North Potosi has met with quite a large business, but at somewhat reduced prices, ranging from $73 to 87 and closing at 81½; 700 shares have changed hands.

Challar has been more quiet; sales of 212 shares have been made at from $585 to 650, closing at 625.

Burning Moscow fully maintains its activity of last week, and at materially improved rates. We note sales of 610 shares at from $57½ to 77, against $53 to 60, buyer 30 days, last week. It closed at $69, with a weak market.

Seneca has been firmly held, from $27 @ 30, a material improvement over last week.

Uncle Sam still remains quiet at about last week's figures, from $710 to 725, closing at the former figure.

Lady Bryan has again become an important feature in the market, 3,349 shares having changed during the week at from $25@48. Having touched $45 on Saturday of last week this stock gradually dropped to $25 on Thursday, and rallied a little on Friday, and closed at 28.

North American after having dropped, last week, from $150 to 105, opened on Tuesday last at $125 from which figure it gradually advanced to 163 at yesterday's board.

Buckeye has gradually declined, during the week from $12 to 8¾.

Adriatic reached $15 on Monday but declined to 12¼ on Friday, an improvement over previous quotations.

Blue Ledge maintains its previous quotations, from $18@20; Baltic has improved somewhat, and is firm at $80@85; Belcher has been heard from at $820, a material advance over previous quotations.

Burnside is quoted at $6½; Crockett at 8½; Caledonia Tunnel at 15; Crown Point Ravins at 5; El Dorado at 18; Gen. Grant, 35; Green, (G H.) 7; Kohler Brothers, 13; Michigan 35; Meloues 26; Melones Sink, 12; Nevada, J. G., 67@70.

Golden Ags & Enterprise has not improved as was reasonably expected it would; but has fallen off somewhat from its closing figures of last week, and may now be quoted at $32.

Imperial has been heard from at $175; Real del Monte has met with a light business at from $47@52; Sierra Nevada may be quoted at from 57@58; Sacramento & Meredith at 60; Yellow Jacket at 750.

Wids West has gradually dropped during the week from $25@16; Silver Hill is quoted at 5½; Esmeralda at 3½; De Soto, Reese River, at 20.

WASHOE STOCK MARKET.

Review of the Week Ending May 23d, 1864.

The Virginia *Union* speaks in most discouraging terms of the present condition of the Virginia Stock Market. The chief cause to which this prostration is attributed is the scarcity of money, a remedy for which is seen by our Washoe neighbor, only in the adoption of the Federal currency as the basis of business transactions in the Territory. Speaking of this, the *Union* says:—

"The scarcity of money in the country forbids speculation, and the same cause compelling the suspension of labor upon great numbers of mines, depresses the value of such stocks to a figure that keeps holders out of the market. The constant drain upon the coin of the coast, is not compensated by the substitution of paper currency, there being a general distaste for such a change in the circulating medium. The movement on foot among business men to bring about the change, and make Legal Tender Notes the basis of business transactions, will undoubtedly relieve the stringency of the money market to a considerable extent; and in that event a better state of things may dawn upon the mining interests of the Territory, and a greater activity prevail in the stock market."

The transactions, since our last report, have indeed been very trivial. The prices paid are held to be no criterion of the actual value of the mines. We give below the reported sales, so far as they have reached us:—

Pretty much the entire business of the week has been confined to transactions in Jewett & Shepard, of which 550 shares have been sold at prices fluctuating from $26½ @ to $34½ cash, and 40½, buyer 30 days. The business of the week opened at $34 and closed at 26½.

Lady Bryan, No. 2. has met with some little business, 142 shares having changed hands at from $1¾ @ 2¼

De Witt Clinton, 292 shares sold at from $2½ @ 5½, closing at $5.

William Penn, 40 shares, from $11½ @ 13.

Knickerboeker, 50 shares from $32 @ 35.

Seneca, 50 shares from $17½ @ 17¾. Twenty dollars was bid on Wednesday of last week, without finding a buyer.

Harold & Argo, 51 shares sold from $1½ @ 2.

Other sales have taken place as follows:—Branch Mint, 20 shares from $33 @ 34; Colorado, 45 shares from $2¼ to 4; Silver Vale, 15 shares from $1¾ @ 2; Santa Fe, 4 shares 7 @ 9; Pony Express 19 shrs from $3½ @ 4; Kentucky, 10 shares from $4¼ @ 4½; Eureka, 10 at $30; Gray & Cook, 3 at 72½; Dilligent, 5 at $2; San Francisco 40 at $6; Golden Swan, 10 at $1½; Eureka, (G. H.) 12 at $15; Yuba, 10 at $1¾; Champion, 11 at 50 cts; Napoleon, 2 at $6¾; Palo Alto, 10 at $4; Gentry, 37 at $1¼ @ 1½; Leopold, 50 at $6; New Oregon, 15 at $17½; Northern Light, 15 at $1½.

SCIENCE AND MORALITY.

The characteristic distinction between man as a savage, and man as an enlightened human being, has been very properly set down as the difference in the extent of industrial operations, and the progress made in scientific investigation by those classes. The spirit of the age has, in fact, been moulded to its present form by the investigations of science. Turn where we may, into whatever pursuit or condition of life, everything proclaims the importance of scientific research. The slow and antiquated notions of a hundred years ago, would be intolerable to the citizen of to-day. What modern lady could forego her brilliant gas jet for the tallow candle in universal use half a century since. What business man could now think of submitting to the slow and lumbering stage-coach, or the uncertain sailing packet, in which our fathers traveled. With what a semi-rebellious spirit do we of California look upon a break in the telegraph lines which places New York and Washington news forty-eight hours behind date.

Scientific researches and experiments have given us gas, the railroad, the steam engine, the telegraphic wire and a thousand other now almost indispensable comforts and conveniences, of which our fathers never dreamed. And still the more we achieve, the more we desire. The spirit of the age calls for constant and unremitting industry in scientific research. So imbued with this spirit have all civilized nations become, that industrial schools, of all grades, and for all classes, are almost every where coming into notice. The idea, once so prevalent, that industrial education was a mere visionary idea of impracticable men is now quite effectively done away with, and there is, at the present time, scarcely any limit to the amount of money and time devoted to scientific investigations, in all the experimented sciences.

In contemplating the progressive intellectuality of the age, we should not forget that it is indispensable to *continued* national progress, that our statesmen, scholars and scientific men, whether of mechanical or professional position, should recognize the principle that all human prosperity is founded, primarily, upon christian morality. Civilization can never make any noticeable advance without that important basis. Experiments to the contrary have been tried time and time again, but never with any marked degree of success. Jewish history everywhere attests that a nation's prosperity is meeted out in accordance with its morality. One of Rome's greatest historians attributes the decay of that renowned empire to the fact that her citizens forgot the presence of the gods. Greece and Egypt tried it and failed. China has for untold ages been striving for a place among civilized nations, but her idolatrous superstitions bind her down to ignorance and never ending decay. France assayed to negative the proposition by deifying reason; the terrible days of her subsequent trials and sufferings tell us with what success. Even now, with her *quasi* recognition of Divine guidance and her voluptuous capital, acknowledged as the metropolis of civilization, art and fashion, she sleeps upon a volcano which may break out at any hour and again bathe that nation in an ocean of blood and carnage.

Who will say that the terrible ordeal through which our own people are now passing, may not be attributed to national sins, from which nothing but a baptism of blood can wash us clean. Christianity, independent of creeds, aided and sustained by intelligence and industry, is the world's only hope of happiness and permanent prosperity.

ELECTION.—The annual meeting of the stockholders of the San Francisco City Water Works was held on the 25th, and the following gentlemen elected trustees: J. B. Thomas, John Parrot, H. S. Dexter, John Bensley, Erwin Davis, C. L. Low and R. G. Sneath. This is the same Board of Trustees which has served during the past year.

The Daily Press on the Mines and Mining.

It has become a chronic disease with the daily press of this city to break out into regular spasms of complaint and warning against *feet* and *mining stocks*. Such expressions as "insane traffic," "wildcat mines," "crazed speculators," etc., etc., are kept constantly on hand, and at short intervals fulminated in leaders made up of silly platitudes and meaningless diatribes against the leading interest of our State and the adjoining Territories. It is utter folly to attempt to deny that the greatest, most important, and, in the full sense of the word, *leading* interests of this coast are mines and mining. Yet, in the face of this fact, in spite of the monthly, weekly, aye, daily out-pourings of bullion and treasure into the lap of San Francisco, within sight of the magnificent buildings already added to our thoroughfares, and within hearing of the golden chime of the metallic currency, flowing through our marts of trade—all the result of the fostering spirit of mining development shown by this community, during the past few years, we find in a city contemporary, the *Morning Call*, the following language, under the heading, "The Mining Mania," which we select, not as an isolated case, but as an index of the general tone of the daily press of this city upon our leading industrial pursuit:—

The thirst for sudden acquisition of wealth is not a new disease, nor is it confined to San Francisco, although it is raging here, and has been at intervals for fifteen years. Within the past few months it has been as virulent as the small pox, and its development in the insane traffic in all sorts of mining stocks, is, to those not inoculated, quite as disgusting as that loathsome disease. Montgomery street has been worse than the wards of a cholera hospital, worse than the hall of an insane asylum when the doors of all the cells have been opened and the whole crowd of furious maniacs let out. God save us forever from the madness that has raged on our great thoroughfare, and from the society of those affected with "feet on the brain." Even one of our strong weak-minded spiritists is less intolerable than these poor, demented creatures. * * * Where is all this mania to end? No means have been spared to inoculate the innocents. Brokers' Boards have aided, the press has been stifled with the truths—few, we fear—and lies, many, we know—which have been written to blow the bubble to its utmost capacity. Specimens from rich mines, the Comstock lead particularly, have been exhibited and assayed, and the results published as the production from hundreds of other real or pretended ledges, and the human gudgeons have snapped at the bait with more than the usual voracity of that greedy creature. The Telegraph has been a convenient and potent power in this inflation, and bogus dispatches have been as plenty as bogus specimens from bogus miners. The finale has already come to more than one, suicide settling all claims and engagements for stocks. Such poor fellows, having paid the last dollar in assessments, squared accounts by paying the last levy made by death.

It is against such indiscriminate blending of good and bad, in one common condemnation, that we protest. As well might it be said that because some firms dealing in provisions, dry goods or hardware, through unbusiness-like negligence or culpable carelessness, fail and become bankrupt, that all others should shun those branches of trade as they would the pestilence, as to argue that because some rash, unthinking individuals, who would probably wind up with a crash in any business, from soap boiling to stock broking, in which they might engage, have rushed, pell mell, into stock speculating, and as a matter of course been food for every sharper who saw them; or that this shall be considered sufficient cause for denouncing all, who, with cool heads and sensible calculations of the chances, are engaged in mining, either in the stock market or in the mine itself, as "a crowd of furious maniacs."

We wage bitter war against wild-cat mining and treacherous duplicity. These have not, nor will they, receive, an atom of mercy at our hands; but at the same time, aspiring as we do to be (and believing that we are so considered), the leading mining journal of this coast, we intend to take by the hand, and with all our might endeavor to help and encourage every legitimate mining enterprise within our knowledge, knowing as we well do that the liberal development of our mines is the true road to a future for California and Nevada, that will, by its brilliancy, cast into the shade their already triumphant past.

ESMERALDA.

The Esmeralda papers speak very encouragingly, at the present time, of the mines of that section. They affirm that abuses have pretty generally passed away, and that the miners have set to work in earnest to develop instead of to sell their claims. Those who continue persistently in such a course, will be almost sure of a rich reward. The mills are pushed to their utmost capacity day and night, and are turning out bullion, at a rapid rate, from the numerous claims now being worked. The owners of small claims are oftentimes forced to wait a long time for their turn at the mill.

The Young America recently turned out $5,179 from 39½ tons of rock ($131 per ton), at the Bodie mill. This crushing cleared the company of debt, and left $1 per share in the treasury. The ore since taken out is considered even richer still. The rock requires no selection; the entire amount raised being taken direct to the mill. The stock of this company is now reported as worth $30 per foot in Aurora. The Aurora *Times* thinks it would be quoted at $1,000 if it was located in Virginia City. This stock would doubtless advance to a much higher figure were it not for fear of litigation with the Antelope Company. The *Times* of the 19th instant, however, learns that the parties interested have come to a very sensible conclusion, as follows, which will probably save the expense of litigation, and at the same time admit of the mine being worked: The Antelope agrees that the Young America may crush enough of the ore to pay the laborers—no more, while the Antelope promises to push their drift as rapidly as they can towards the Young America, so as to prove whether or no it is the same ledge. If it turns out to be, the Young America is to give it up; if not, the Antelope is to relinquish all claim.

The Golden Age and Empire is still taking out very rich rock. But little waste comes from the mine; nearly the entire mass raised being pay rock. The last crushing of 200 tons of ore realized $180 per ton! The reception of the bullion in this city, $35,552, we announced in our last issue. The previous crushing was at the rate of $105 to the ton. It would seem from these results that this should be classed among our best mines. The *Times* says the stock is now held at $350 per foot. It was sold in this city, however, on Monday last, for $37½. This mine is under the superintendence of Capt. George Benson. A dividend of $5 per share was paid by this company on Thursday last.

The Iowa is turning out excellent rock, showing both gold and silver to the naked eye.

The Pennsylvania Tunnel is one of the most important enterprises in Aurora. At 300 feet they struck a promising ledge, upon which active operations are about to be commenced. This tunnel is now in 750 feet, and will soon strike the Crockett ledge. About 500 feet further will take them to the Real del Monte—making 1,300 feet in all.

The Real del Monte, just now, has a monopoly of all the best mills in its vicinity, and less important companies are obliged to stand aloof, and take whatever they can get. It is said that the present yield of the rock from this mine is from $60@130 per ton. The repairs upon the company's mill were to have been completed, and the mill put in operation again, this week.

The Durand Mill is spoken of as being one of the most perfect in the Territory. It has recently been engaged in crushing rock for the Golden Age and Empire.

The Enterprise Ledge is improving in size and richness. It is now seven feet wide, and shows much free gold.

Wide West.—The incline shaft upon this mine has reached a depth of 160 feet. A few weeks since the lead in this incline had dwindled down to an inch and a half in width. It has since increased to four and a-half feet, with the rock looking well. Water is just beginning to make its appearance in the shaft. A small crushing from this rock, for a test of its value, was to have been made this week.

The Antelope continues regularly at work, and is quite as regular in its pay. The company is out of debt, with an excellent mine, systematically worked, and under the charge of a Superintendent who thoroughly understands his business.

The Utah, which has passed through many changes of good and ill fortune, appears to be rapidly being brought into a condition of permanent prosperity, under the judicious and energetic management of its present Superintendent, Mr. Bann. He is now down 200 feet, and taking out rock of the most unmistakable excellence. A contract has been made for crushing 50 tons at the Independence mill, and he expects soon to be able to keep a mill running constantly. The rock is expected to pay from $65@$100 to the ton.

Bullion to the amount of $60,290 was shipped from Aurora on the 18th instant, as follows: Antelope, $6,275; Real del Monte, $15,500; Golden Age and Empire, $35,552; miscellaneous, $2,963.

The operations of the past few weeks have done much to restore confidence in the wealth and permanency of the Esmeralda mines. Companies and individuals have very properly dismissed their anxiety for a rise in stocks, and are devoting their entire energies to the development of their claims. The policy of such a course is already apparent.

Who the Speculators are.—The New York *Journal of Commerce* gives the following, which contains "more truth than poetry:—"

We notice newspapers are denouncing the "Wall street operators," and rejoicing over the "lame ducks" among that much abused fraternity. Have the writers of these fancy squibs any idea who the stock gamblers are? It is not the "Wall street broker," nor the "William street shark," nor any other mere instrument, who have been carrying on this exciting game. It is the minister, the doctor, the lawyer, the merchant, the mechanic, the ship-owner, the banker; and if we have heard aright, the newspaper writer himself, who have been principals in these transactions. The whole community appeared to have been inoculated with an ungovernable appetite, amounting to mania, for this stimulant, and words of warning were of no avail. Let no one think that the evil will be cured by this sudden check. A brief interval, a day or two's sobriety, is all that can be expected, and the bottle will go again to the lip.

Sound Talk.—The following sensible answer we clip from the Aurora *Times*, of May 16th. It comes so near to our own ideas on the subject, that we take pleasure in offering it for the perusal of our readers:—

"We were asked, the other day, 'Why is it while Aurora mines are really turning out more gold now than at any time before, her stocks are worth so little in the market?' The mining fever has subsided; all mining stocks are on a downward tendency. Snap judgment has been taken of some of them; thieving tricks played on others; the danger of having the tax levied upon the mines—all these taken together would probably indicate the answer. Aurora will survive the present shock; and after it shall have passed away, will commence a better and healthier life, that will lead on to fortune."

Miniature Engine.—We have seen a curiosity in the jewelry store of E. M. Wright, on D street, in the shape of a miniature steam engine, of about one quarter horse power, in full operation. The engine is of brass, silver plated. The bed is one foot long, cylinder, one and three-quarter inches in diameter, and two inch stroke. The balance wheel is seven and a half inches in diameter. Attached is a copper boiler eighteen inches long by six in diameter. The engine was originally constructed by Mr. Young of Oroville, and the boiler by D. E. Knight of this city. The whole institution has been remodeled by Mr. Wright. It is intended to be made use of in running a sewing machine. The engine is a fine piece of mechanism, and reflects much credit on its ingenious builders.—*Marysville Express.*

The Cariboo Mines.—The Victoria papers state that nearly all the miners have now left Victoria for Cariboo, from which place a very prosperous yield is expected the coming summer. The population at the mines the present season, although smaller than that of the two previous years, is at least much better prepared for exigencies. Large sums of money have been invested in Cariboo, in the shape of bed rock flume and bed rock drain companies, and an artesian boring company is now in operation at the mines.

The Philadelphia North American says the demand for diamonds has increased until it assumes nearly the dimensions of a mania. Dealers admit that prices are exhorbitant, yet they have large orders to be filled. In many cases they are bought as investments.

Mechanical Department.

[Written for the Mining and Scientific Press.]

HOME INDUSTRY.

VULCAN FOUNDRY AND IRON WORKS.

This establishment is on First street, corner of Natoma, and was commenced originally by Mr. Geo. Gordon, of the Sugar Refinery, and Mr. E. T. Steen. The present firm consists of four gentlemen—Messrs. Steiger, Aitkin and Ivers, with Mr. P. Torquet as manager. They employ 160 hands, and consume on an average, every month, about 176,000 lbs. of iron for castings, 44,000 lbs. boiler iron, 37,000 lbs. wrought iron; other materials, 25,000 lbs.; steam coal, 40 tons a month; forge coal, 45 tons; foundry coal, for melting, 50 tons; lumber, for flasks, patterns and frames of machinery, 10,000 feet a month. Their largest casting weighed seven tons, but their capacity in this respect is equal to any establishment in the State. The splendid beam engine at present in use at the Gould & Curry mine, issued from the Vulcan, and is spoken of as a piece of workmanship creditable to any country. Its dimensions are large—30 inches bore, 6 feet stroke, 300 horse power; in fact the largest of the kind so far built in California. The only new article at present on hand of particular interest to our readers is the Hepburn & Peterson amalgamator, recently illustrated and described in the Press. It is seldom, however, that a visit can be made to the Vulcan without finding in their vast assortment of mining machinery a variety of new and interesting articles connected with that branch of their business. The firm are on the eve of completing one of the largest, if not the largest, boiler ever manufactured in this city. It is intended for the British ship Thames, of Victoria, and in every respect reflects credit on the establishment. It is 14 feet long, shell oval, 8 feet by 9 feet, contains 76 return tubes, each four inches in diameter, weighs 14½ tons; power, 200 horse. Attached to these works are three different establishments, each in itself as complete as modern science and improvement can make it, from which every description of iron work is turned out in the best style. We know no one more worthy his popularity than Mr. P. Torquet, the gentlemanly manager.

It has of late been supposed that the above firm intended building an immense new foundry commensurate with their growing business. Their re-incorporation, however, is not for such a purpose. At present they are extending their premises to the north side of Fremont street, where their general works will be in future. The peculiar feature in this enlargement when completed is, that the boiler will remain in the old works on the south side of that street, and the steam necessary for the entire machinery conveyed in pipes under ground. By this arrangement they will save both expense and space. Nothing will be omitted in any department to make the works equal to the reputation of the firm.

MINERS' FOUNDRY.

This establishment is also on First street, near Folsom, and is of comparative recent date, being commenced in 1856. The proprietors, Messrs. Howland, Angell & King, are practical mechanics, and owe their present position to their own industry, enterprise and skill. Though of recent date, these works are rapidly assuming large proportions. They employ from 150 to 170 hands, and during their heaviest pressure of business have consumed, on an average, the enormous amount of seven tons of iron for casting and one ton of bar iron a day, with a proportionate amount of coal and lumber. They make no boilers; thus their consumption is confined to two kinds of iron. Their heaviest casting weighed seven tons—a punch and shears for Coffey & Risdon; but they calculate they have the capacity to melt 20 tons at once. Their principal work is mining machinery. The capital stock of this firm ranges from $150,000 to $200,000. Up to the close of last winter they manufactured on an average one of Wheeler's amalgamators a day. Farrand's and Mr. Howland's own pan are now having a run. At present they are manufacturing a number of large iron tanks for the Borax Works, Clear Lake, Napa. These tanks are eight feet in circumference and nine feet deep, without a bottom. They are sunk in the mud where the water is shallow, pumped dry, and the mud left in them strained for the borax. By this process they obtain about a ton a day. After being refined in this city it is considered a good article. Mr. Howland has lately invented a new amalgamator, now on exhibition at the works, called the cylinder amalgamator, which is rapidly coming into repute. It differs from all others in its construction, and resembles a large grindstone more than anything else. The pulp is put inside the cylinder, in which three arms revolve, with considerable velocity, creating a heat which vaporizes the mercury sufficiently to salivate if not kept tightly closed. Hence there is no need for the application of steam. How so great a heat is produced by the simple velocity of the arms is as yet an unanswered question. This much, however, is certain: it amalgamates thoroughly. We also saw here a new hydraulic wheel, the chief feature of which is to obtain power by a small body of water with a large fall, instead of a large body of water with a small fall. In many parts of the mountains this wheel will be very useful to quartz miners, for whose especial use it is intended. Attached to these works is a pattern shop, and a remarkably perfect miners' laboratory, for testing rock or amalgamating on any scale. Altogether the Miners' Foundry is a complete establishment, creditable alike to the proprietors and the city.

[To be continued in our next.]

Obtaining Iron from its Ore.—In the ordinary method of obtaining iron from its ore, the stone or ore is calcined, then mixed with coke, coals and limestone, and afterwards submitted to the action of a hot or cold blast-furnace. Mr. Silvester Ingledew, of Stocktou-on-Tees, proposes to obtain the iron from the ore without the aid of a blast-furnace, and consists, first, in reducing the ore by grinding or pulverizing in an ordinary grinding apparatus, or one suitably arranged for the purpose; it is then to be placed in a perforated rotating chamber or receptacle, through which water passes, wherein the heavier particles of granulated metal are precipitated by gravity to the bottom, the lighter earthy and other matters being carried off by the water. This residuum of washed granulated iron ore (which still retains a small quantity of silicate and silicate of potassium) is then conveyed to an open flat vessel or "drying frame," where the moisture is evaporated therefrom, and it is afterwards passed into an ordinary air or reverberatory furnace, by which it is reduced to cast metal. In order to regulate the quality of the iron, he employs, in connection with the granulated iron from the drying frame, any necessary proportion of alkaline earth, alkaline bases, and carbonaceous matter, which will have the effect of chemically combining with any extraneous matter, so as to facilitate the separation of the iron, and so influence the quality of the same as to render it applicable to the production of bar-iron, plates, or other descriptions of manufactured iron.—*London Mining Journal.*

New Motive-Power.—Profs. Barsanti and Mattencci, of Florence, have invented a new mode of motive power. Their engine may be described as an atmospheric engine, a vacuum being produced in the cylinders, under the pistons, by the explosion of a mixture of atmospheric air with an inflammable gas. The explosion is said to be without noise, and free from danger. The result of a long series of experiments upon two machines—one of them being of twenty horse-power and the other of four—proves that the consumption of the gas used is one-third of a cubic metre per horse-power per hour. The gas is said to be produced at a cost of less than a penny the cubic metre; consequently, a horse-power can be obtained at about one-third of a penny the hour. The machines constructed are reported to work satisfactorily, and the principle to be equally applicable to marine and locomotive engines. Several patents have been taken out in this country for machines of this class. Hitherto, however, all explosive engines have failed to fulfil the promises of the inventor.—*Athenæum.*

Hotel Elevators.—It appears from the proceedings of the Institute of British Architects, that the principle of hydraulics is being successfully applied in the place of steam power in many cases. The Brighton Hotel contains a machine which, moved by the weight of water with a sufficient head, raises the visitors and the luggage from the lower story to the upper, which is seventy-seven feet from the ground. The elevator in the Fifth Avenue Hotel is operated by steam. At the Grand Hotel in Paris, the elevators are put in motion by means of Lenoir's gas engine, which, it is said, performs its office with economy and cleanliness, and requires but very little attention.

Washoe Building Steam Engines.—The Fulton Foundry is manufacturing a steam engine, to be used for driving a pump at the Bullion works. The pump, which is of 8-inch bore and 6-foot stroke, is being made at the Fulton Foundry, and is the first engine and pump ever undertaken to be manufactured in the Territory.

American Inventions Claimed by Europeans—Interesting Experiments.—At a late meeting of the Polytechnic Institution of New York, Mr. Maynard stated that the impression which generally obtained both in this country and Europe, that horizontal shell firing was inaugurated by the Russians, was altogether erroneous. During the administration of Mr. Jefferson, Colonel Bomford, of the U. S. Army, devised and had cast a nine-inch gun to throw shells horizontally. He proposed that it should be adopted by the Government; but the proposition was declined, and the matter dropped for a while. In the meantime, Col. Paixan, of the French service, saw the gun, thought well of it, and recommended it to his Government, by whom it was adopted and named, after him, the Paixan gun, of which we heard so much a few years ago. It was subsequently adopted by our Government, and re-christened the "Columbiad." It was with a gun of this construction that Col. Dahlgren made his experiments to determine the pressure in different parts of the gun while the ball was passing out. The result of these experiments led to a change in the distribution of the metal composing the gun, which has now taken the less ornamented but more serviceable form, which is seen in the two big Camanche guns, now in the ship-yard at the foot of Third street, in this city.

Ever since American mechanics commenced constructing guns, they have led all other nations, both in efficiency and weight of metal. The same may be said of small arms. The English, however, are entitled to the palm in artillery projectiles. Their steel round and steel-pointed shot are the most effective projectiles yet employed, and recent experiments in England go to show that at short range, and properly projected, no iron plating has yet been made which can withstand them. At the experiment above alluded to, two iron 300-pound shots were successively discharged from a 600-pounder, loaded with 90 lbs. of powder, at a target eleven inches in thickness. The target was uninjured—not even a bolt was started. A steel shot, weighing 344 lbs., was then placed in the gun, with the same amount of powder. The target was split completely in two, and the two pieces thrown several feet to the right and left, while the ball rebounded against a second target, placed just behind the first, and was found fourteen feet in front, somewhat flattened from the force of the terrible blow it had delivered, but not broken in pieces. No iron plating has yet been put together which could have withstood that blow. The Minnie bullet is a Prussian invention, and takes the palm over any rifle projectile yet presented to the public. The latest improvement in casting guns is that recently so successfully carried out, a few weeks since, in casting the huge 20-inch gun at Pittsburg, and which has already been described in the Press.

Cheap Paints.—The essential part of all good paints, properly so called, is linseed oil. Oil, if well boiled, may be applied alone, and affords an excellent protection to hard wood and implements, and upon floors. Sundry substances ground very fine are used to mix with the oil, and in proportion as they thicken the oil and form an opaque coating, they are said to possess "body." A pretty good cheap paint for outside work is made by mixing plaster of Paris with white lead, or zinc white, and grinding them together in a paint mill with oil. Plaster alone may be used, and is said to form a durable and cheap paint. Of course any color may be given which is desired.—*American Agriculturist.*

Cleanness of Gun-cotton.—In their report to the Austrian Government, the Commission appointed to examine gun cotton say:—"From the steel barrel of a rifle, 40 rounds have been fired with gun-cotton cartridges, which have hit the target 300 yards distant, in an unexceptionable manner. After the said number of rounds, the barrel was internally as clean and polished as a mirror."

The Andes.—The Andes company, whose shaft is 170 feet deep, have commenced drifting toward their ledge. This claim is an extension of the Jewett & Shepard in American Flat.

Patent Department.

A New Tunneling Machine is spoken of in an English paper, manufactured by Messrs. Hawks, Crawshay & Sons, of Gateshead, which is now being used at Spezzia, on the eastern section of the Ligurian line of railway, in cutting one of the tunnels through the Maritime Alps, between that port and Genoa. It is said to cut a hole 7½ feet in diameter, at the rate of 14 feet advance in 24 hours, through very hard rock, consisting chiefly of limestone, with veins of a tougher character running through it. Three men and a boy work the machine by the aid of steam or compressed air.

We presume that few of our readers acquainted with tunneling in hard rock will credit the statement of the amount of work which it is claimed this machine will accomplish. If it will perform one quarter of the work claimed for it, at any ordinary cost of running, the invention would be invaluable in California. It has ever been a wonder to us that no thorough trial has yet been made of any tunneling machine in California. We have already, at least two patent tunneling machines in this city, either of which, would, in the opinion of good mechanics, make a vast saving in both money and time over ordinary handwork; yet neither have yet been fairly tried with continuous work. Why do not some of our enterprising miners give these machines a fair trial? An opportunity to do so can be secured on most advantageous terms.

Slide Valve Improvements.—In the official report of patents granted for the week ending April 5th, we notice two new patents for improvements in the slide valve of steam engines. The first was granted to Mr. John Baird, of New York city, who claims the combination of a face plate with a slide valve, whereby an endwise or latteral motion of the former causes its acting face to recede from or approach the back of the latter.

The second was granted to Isaac V. Holmes, also of New York city, who claims the combination with a slide valve, which is double-ported both for steam and exhaust, of a cut-off valve or valves riding directly on the back thereof; also the construction and arrangements of the several ports of a double-ported valve, whereby the steam, exhausted through two of the exhaust ports, may pass the inner steam ports on its way to the main exhaust port, and all the steam ports are brought into the back of the valve, so that a cut-off valve or valves may be applied to ride directly thereon.

Cheap Gas.—A company in New York has a patent for a new sort of gas, which evolves so much heat that it is designed to use it largely for cooking and similar purposes as well as for illumination.—Stoves—small hand stoves—are already made, in which cooking by gas is done (for summer use) at one cent an hour; but the new gas company proposes to enable you to cook away at half a cent an hour, and to warm your rooms in winter at ten cents per day!—*Exchange.*

Much time and money has been expended in efforts to produce a cheap gas—such as can be used economically for heating purposes—but as yet, we believe, with very little success. It is well to give every invention a fair trial before condemning it; but we must beg leave to entertain serious doubts about the production of a gas cheap enough to warm a room of any considerable size in a New York winter, at a cost of only ten cents per day.

How to Render Ivory Flexible.—Ivory, like the substance of all teeth, consists of about 70 per cent. of phosphate of lime, 10 per cent. of carbonate of lime, and 20 per cent. of gelatinous matter, or cartilage. Immerse it in a strong solution of phosphoric acid until it becomes transparent, then take it out, wash in water, and dry with a soft cloth, and it will be found as flexible as leather. On exposure to the air, it returns to its original hardness; but may be again rendered flexible by merely soaking it in hot water.

Improved Mechanical Puddlers.—Some months since we gave an account of a mechanical apparatus for puddling iron, which had recently been introduced on the continent of Europe, and for which patents had been taken out. Later accounts not only fully confirm the complete success of this mechanical contrivance, to supersede by machinery the most laborious and exhausting labor ever attempted in the whole range of mechanical operations, but speak of still further improvements in the operation. These puddlers have now been in constant use at the Clos-Mortier Forges (located in Germany, if we are not mistaken,) for two years. During that time they have been subjected to numerous and continued experiments, by which they have been successively improved and simplified; until the result of their working at the seven different furnaces to which they have been fitted, is so satisfactory that the patentee has now no hesitation in applying them, without further modifications, to furnaces generally. The April number of the London *Mining and Smelting Magazine* contains a full illustration of this new and important invention. It is difficult to estimate too highly its value and importance, especially in the present state of the labor market, and the rapidly increasing consumption of the world's great staple, iron.

In Philadelphia there are 357 miles of water pipe and 592 miles of gas pipe.

The Mining and Scientific Press Patent Agency.

OFFICE, 57, GOVERNMENT HOUSE, SAN FRANCISCO.

Information About Obtaining Patents.

The Patent Law Amendment Act, of March 4th 1861, and March 3d 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent? A positive answer to this question is only to be had by presenting a formal application for patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the Mining and Scientific Press. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Preliminary Examinations.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search made at the U. S. Patent Office, Washington, through the medium of our associate in that city, to ascertain whether among all the patents and models there stored, any invention can be found which is similar in character to that of the applicant. On the completion of this special search we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollars. This search, though it involves the expense just named, will usually prove satisfactory. If the same device has been before patented, the time and expense of constructing models, preparing documents, etc., will in most cases be saved; if the invention has been in part patented, the applicant will be enable to modify his claims and expectations accordingly. Many other obvious advantages attending the Preliminary Examination; although the strictest search does not always enable the applicant to know positively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publication; or some other person has been previously rejected on an analogous device; or some other invention for a similar purpose, but partially resembles the applicant's in its construction; or the Government makes an unjust or uncommon decision. Against none of these contingencies does the Preliminary Examination provide; it will, however, generally inform the applicant whether an improvement similar to his has been used for the same purpose has ever been patented or not in this country.

Persons desiring the Preliminary examination are requested to remit the fee ($10), and furnish us with a sketch and description of the invention.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian, Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of governments that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues.—If the application is rejected we cause a thorough investigation to be made into the reasons presented for the Commissioner for refusing the patent. In making this examination, we have access to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client. For this service we make no charge. If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The laws requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: Dewey & Co., Mining and Scientific Press, rooms 56 and 57, Government House, corner of Sansome and Washington Streets, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first instalment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail—The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due, and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued, the applicant will be notified to remit the last instalment of the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months and even more. We make a special point to forward our cases as rapidly as possible.

Return of Models.

Under the new law, if the applicants case has been rejected he is entitled to withdraw his model from the Patent Office.

This law applies to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expense

Application for Patents, Designs, Trade-Marks, Labels, etc.

Under the new law patents may be taken out for any new form of any article, also for tools, patterns, castings, machine-frames, stove-plates, borders, fringes, all new designs for printing, weaving or stamping upon silks, calicoes, carpets, oil-cloth, prints, paper-hangings, and other articles. Trade-marks, labels, envelopes, boxes and bottles for goods, may also be patented; likewise all works of art, including prints, paintings, busts, statues, bas-relief, or compositions in alto, or basso relievo, new dies, impressions, ornaments to be placed upon any article of manufacture, architectural work, etc.

Our facilities for the prompt preparation and securing of patents are of the most extensive character and our charges are very moderate.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the tariff of fees established by law:

On every application for a design, for 3 years and six months	$10
On every application for a design, for seven years	15
On every application for a design, for fourteen years	30
On every caveat	10
On every application for a patent	15
On issuing each original patent	20
On filing a disclaimer	10
On every application for a re-issue	30
On every additional patent granted on a re-issue	30
On every application for an extension	50
On the grant of every extension	50
On appeal to the Commissioner from Examiners-in-chief	25
On every appeal to the Judges of Circuit Court, D. C.	25

Infringements.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunction from the Court, to an arrest of or prohibition from the employment of his machinery, shop, works, factory and men in production of the article.

In addition to injunction the infringer is liable to be mulcted in treble the amount of damages awarded by the jury. The maker, the workman, the seller, and the purchaser, if a user, are all liable either collectively or individually.

Having access to all the patents, models, public records, drawings and other documents pertaining to the Patent Office, we are prepared to make examinations and give opinions upon all infringement questions, advise as to the scope and ground covered by patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Appeals.

In rejected and other cases, the new law provides for an appeal from the Examiner-in-chief to the Commissioner in person, on the payment of a fee of twenty dollars. A further appeal may be taken from the decision of the Commissioner to the U. S. Court, of the District of Columbia. These appeals are heard by any of the Judges before whom the applicant elects to bring the case. No duty. All the papers, models, etc., are sent by the Commissioner to the Judge, who after review of the case, and either sustains or reverses the Commissioner's decision.

The party taking the appeal pays an additional fee of twenty-five dollars. The Judge appoints a day of hearing. The applicant can appear in person or by counsel to state his case and file a written argument. Five days are allowed the opponent to put in an answer, and a similar period to the appelant for a closing reply.

Many important cases are brought before the Judges on appeal and the decisions of the Commissioner are not unfrequently reversed.

We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, Government House, corner San some and Washington streets, San Francisco.

Rubicon Gold & Silver Mining Company No. 1. Location of the mine, Keyes District, Owens River, Mono county California.

Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Rubicon, Gold and Silver Mining Company, No. 1, there will be sold at public auction, to the highest bidder, for cash in U. S. gold Coin, on the 17th day of June, 1864, at 11 o'clock, A. M. of that day, at the office of the Company, No. 7 and 8 third floor No. 302 Montgomery street, San Francisco, so many shares of the Capital Stock of the above Company, standing in the names of the following persons or shareholders as will be necessary for the payment of assessment No 5, of ten (10) cents per share duly levied thereon, April 18, 1864, by the Board of Trustees, together with the expenses of advertisment and sale, unless said assessment and charges are previously paid.

Names.	No. Certificates.	No. Shares.	Amt.
Samuel Aitkin,	214	15	1 50
Adams, Blum & Co	338	60	6 00
Adams, W J	339	25	2 50
Adams, W J	682	200	20 00
Adams, W J	563	100	10 00
Adams, W J	684	80	8 00
Bruno, Abisher	375	6	60
Blain, J D	93, 94, 95, 96—ca 30	120	12 00
Brymt, F	198	2½	25
Baker, E G	199	40	4 00
Brasch, H G	233	36	3 60
Brasch, H G	676	60	6 00
Brasch, H G	678	10	1 00
Boyer, W L	328	4	40
Bennet, Geo	742	25	2 60
Bockman, H A	390	30	3 00
Box, Wm E	478	60	6 00
Blakely, B F	501	14	1 40
Bain, Robert	580	60	6 00
Bartlett, J D	017	5	60
Blattner, J J	671	18	1 80
Bland, Adam	no cer	180	18 00
Cook, Sarah	41	25	2 50
Cook, Sarah	no cer	155	15 50
Clark, A N	137	10	1 00
Clark, A N	138, 140, 141—ca 6	15	1 50
Carr, J T	144	30	3 00
Carr, J T	145	60	6 00
Carr, J T	495	10	1 00
Carr, J T	no cer	80	8 00
Cushman, C S	863, 864—ca 25	60	5 00
Chase, H A	410	5	50
Chester, Henry	483	66	5 60
Chester, Henry	687	7	70
Chester, Henry	688	33	3 30
Chester, Henry	717	180	18 00
Chester, Henry	no cer	180	18 00
Clark, G G	666, 567—ca 30	60	6 00
Chart, Obed	595	38	3 80
Cromwell, J L	689	10	1 00
Currier, Benj	no cer	180	18 00
Doran, David	115	100	10 00
Doran, David	207	60	5 00
D'Derky, Charles	143	2½	25
Dove, Benjamin	148	25	2 50
Donohoe, Wm	333	6	60
D'Arey, G H	512	5	50
Dunscomb, Ed	571	25	2 50
Dougart, J J	613	9	90
Doscher, Henry	no cer	171	17 10
Davis, W G	447	240	24 00
Davis, W G	449	50	6 00
Davis, W G	719	14	1 40
Davis, W G	721	16	1 60
Davis, W G	737	15	1 50
Ettigno, Jean	380	60	6 00
Ettigne, Jean	no cer	114	11 40
Errickson, E—Estate of	337, 544, 545—ca 25	75	7 50
Errickson, E—Estate of	505, 736—ca 14	28	2 80
Eichel, C	755	9	90
Fogler, Jos	163, 164, 250—ca 6	18	1 80
Fogler, Jos	249	12	1 20
Fogler, Jos	252	114	11 14
Fogharly, Patrick	241	10	1 00
Fifield, A B	498	14	1 40
Figelo, W	759	15	1 50
Fellows, D A	659	30	3 00
Field Wm R	710	35	3 50
Fillebrown, Jas	no cer	360	36 00
Gerrish, P P	588	14	1 40
Hall, H B	23	5	50
Hall, H B	39	165	16 50
Henderson, A H	29	25	2 50
Hughes, Rienzi	475	60	5 00
Hathaway, Sam'l	197	26	2 50
Harbinger, Carl	142	2½	25
Ham, C W	160	6	50
Ham, C W	no cer	175	17 50
Ham, S A	no cer	180	18 00
Holm, Henry	314	10	1 00
Holm, Henry	316, 317—ca 20	40	4 00
Holm, Henry	318, 319—ca 25	50	6 00
Holm, Henry	320	50	6 00
Hines, Herman	332	20	2 00
Hayden, J H	394	30	3 00
Henderson, Thos	430, 634—ca 10	20	2 00
Henderson, Thos	635	5	50
Hyde, Wm H	469	60	6 00
Hyde, Wm H	no cer	130	13 00
Harris, J F	690, 691—ca 30	60	6 00
Harris, J F	747	50	5 00
Johnson, J B	261. 265—ca 30	60	6 00
Johnson, J B	no cer	1570	157 00
Jones, P M	159	10	1 00
Jeffress, John	274	7	70
Jeffress, John	no cer	116	11 60
Josselyn, J B	387	20	2 00
Kennedy, John	272	25	2 50
Kennedy, John	no cer	145	14 50
Kneedler, John	278	14	1 40
Kneedler, John	279	50	5 00
Kneedler, John	382	6	60
Kneedler, John	no cer	85	8 50
Kennedy, Thos	360, 440—ca 6	12	1 20
Kennedy, Thos	no cer	168	16 80
Kennedy, Jas	no cer	180	18 00
Kimball, M H	no cer	57	5 70
Louterwasser, C	204	25	2 50
Louterwasser, C	no cer	235	29 50
Lewisson, Lewis	190	160	16 00
Lewisson, Lewis	191, 192—ca 100	200	20 00
Louden, Wm	354	5	50
Lee, Chas	484	25	2 50
Lee, Chas	523	75	7 50
Lee, Chas	552	15	1 50
Lee, Chas	596	12	1 20
Lee, Chas	625	20	2 00
Long, E—Estate	537	315	31 50
Long E—Estate	538	180	18 00
Laundry, Lewis	525	14	1 40
Lyon, Wm S	751	6	60
Luelling, W H	565	288	28 80
Lovely, Horace	673	30	3 00
Lord, A J	695	14	1 40
Louterwass, F P	764	14	1 40
Martin, Wheeler	7, 37, 42, 43—ca 30	120	12 00
Martin, Wheeler	no cer	810	8 10
Mitchell, D H	473, 474—ca 14	28	2 80
McCort, Robert	32	90	9 00
Main, E F	70	5	50
Myers, Finkus	91	90	0 00
Motteler, Fred	216	5	50
Motteler, Fred	217	10	1 00
Motteler, Fred	218, 220, 221, 222, 223, 225, ca 20	120	12 00
Motteler, Fred	408	14	1 40
Motteler, Fred	409	12	1 20
Mahan, H H	184	30	3 00
Mallen, John	2½	5	50
Martell, John	269, 270—ca 5	10	1 00
Molt, J P	254, 256, 683, 684—ca 50	200	20 00
Molt, J P	681, 642—ca 90	180	18 00
Molt, J P	685, 686—ca 25	50	5 00
Miller, Chas	303	30	3 00
Miller, P C	380	9	90
Miller, P C	659, 660, 661—ca 26	75	7 50
Miller, P C	no cer	251	25 00
Mayhew, G S	432	30	3 00
Mayhew, G S	620	25	2 50
Mayhew, G S	no cer	70	7 00
Merrell, I L	611	25	2 50
Middleton, J H	660	13	1 30
Muhm, Anna	592	85	8 50
Muhm, Anna	693	6	60
Mason, J H	641	14	1 40
Moore, Jos J	628	26	2 50
Melver, Jno	753	10	1 00
Nahl, W H A	434	65	6 50
Norman, D	466	25	2 50
Noble, G W	612	20	2 00
Owens, R B	486	60	6 00
Porter, Thos H	188	12	1 20
Porter, Thos H	no cer	126	12 60
Patterson, John	413	20	2 00
Patterson, John	519	180	18 00
Piper, Henry	490	30	3 00
Perkin, Wm	602	18	1 80
Perkins, J G	577	60	6 00
Picket, E W	708	180	18 00
Picket, E W	709	60	6 00
Perveur, T J	33	90	9 00
Perveur, T J	286, 426—ca 18	30	3 60
Perveur, T J	425	3	30
Perveur, T J	17	70½	7 05
Ruth, Elias	406	5	50
Reas, J E	437	40	4 00
Reas, J E	752	27½	2 75
Reas, H M	724	35	3 50
Rundlett, C F	464	112½	11 25
Rundlett, C F	679	5	50
Ritter, L E	575	30	30
Ramsey, Peter	553	5	50
Roberts, Eli	640	30	30
Robinson, Wm E	664, 605, 606, 667—ca 25	100	10 00
Robinson, Wm E	668	30	30
Santiff, N	119	180	18 00
Santiff, M	120	90	9 00
Santiff, M	121, 122, 123—ca 30	90	9 00
Santiff, Jos	no cer	180	18 00
Still, Robert	396	10	1 00
Still, Robert	517	100	10 00
Still, Robert	518	50	5 00
Still, Robert	731	102	10 20
Still, Robert	732	20	2 00
Stewart, James	210	15	1 50
Schmidt, J C	534	127	12 70
Spalding, C A	353	25	2 50
Spalding, C A	403, 404—ca 50	100	10 00
Spalding, C A	405	55	5 50
Sutherland, Jacob	360	62	6 20
Sievers, Jno H	402	5	50
Sanchez, F	515, 510—ca 14	28	2 80
Sanchez, F	560	16	1 60
Swain, R R	054	25	2 50
Stadtfeld, Mary	675	4	40
Silver, Frank	707	15	1 50
Simpson, Geo	716	19	1 90
Smith, Rich.	729	25	2 50
Shoemaker, F	778	88	8 80
Tingstrom, A	no cer	167	16 70
Tunock, And	295	2	20
Tyler, B F	329	4	40
Terhune,	334	10	1 00
Taylor, John	398	12	1 20
Taylor, John	399	9	90
Taylor, Jno R	615	10	1 00
Von Gundy, Jos	193, 194—ca 30	60	6 00
Von Gundy, Jos	245	14	1 40
Von Gundy, Jos	no cer	406	46 60
Von Poser, H	568	14	1 40
Wainwright, Wm	89	10	1 00
Wainwright, Wm	477	70	7 00
Winslow, E G	567	35½	3 65
Wunneuburg, N H	26, 444—ca 10	20	2 00
Wunneuburg, N H	128	50	5 00
Wunneuburg, N H	130, 131, 445—ca 30	90	9 00
Ware, Jos	261	2	20
Ware, Jos	623	7	70
Ware, Jos	714, 715—ca 14	28	2 80
Ware, Jos	758	90	0 00
Ware, Jos	770	25	2 50
Ware Jos	no cer	165	16 50
Wickberry, F	284	30	3 00
Weston, D S	397	2½	25
Wyman, F C	430	40	4 00
Wood W F	528	30	3 00
Walmsey, W W	631	6	60
Young, Rich.	34	90	9 00
Young, Rich	no cer	35	3 50

By order of the Board of Trustees.

J. P. VAN HAGEN, Secretary.

Office, No. 302 Montgomery street, No. 7 and 8, 3d floor.

San Francisco; May 27, 1864. 22-2t

For Sale—A Useful Invention.—EDITORS PRESS:—I wish to call the attention of mill owners and manufacturers of mining machinery, through your columns, to a devise of my invention for feeding the ores or materials to be crushed, in the common stamp mill, so much in use in this country. It is simple and efficient, doing the work with far more regularity than can be done by hand; it costs but little, and requires no more attention than can be given to it by some one about the mill, without neglecting his other duties. As I have not the means to introduce the above, I would like to enter into arrangements with some one to aid me, and share the profits of the invention. I would add, it has stood a working test, under my supervision, and has likewise received the approbation of Scientific men.

Any communications on the subject, addressed to J. C. H., El Dorado, El Dorado Co., Cal., will receive prompt attention. 21-tf

San Lorenzo Gold and Silver Mining Company, Santa Cruz County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 24th day of May, 1864, an assessment of fifty (50) cents per share was levied upon the Capital stock of said Company, payable on the 25th day of May, 1864, in United States Gold Coin, to the Secretary, at the office of the Company, or to DANIEL S. FLAGG, Superintendent at the mine.

Any stock upon which said assessment shall remain unpaid on SATURDAY, the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 11th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

MILO CALKIN, Secretary.

Office, No. 537 Washington Street, San Francisco. 22-4t

Mechanics Gold, Silver and Copper Mining Company, Clayton Mining District, Contra Costa County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 25th day of May, 1864, an Assessment of five (5) cents per share was levied upon the capital stock of said Company, payable immediately, in United States Gold Coin, to the Secretary, at the office of the Company, or to J. W. CASSIDY, Superintendent at the mine.

Any stock upon which said Assessment shall remain unpaid on Saturday the 25th day of June, 1864, will be advertised on that day as delinquent, and, unless payment shall be made before, will be sold on Wednesday, the 13th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

A. B. WINEGAR, Sec'y.

22-4t Office, No 322, Front Street, San Francisco.

Blue Dragon Mining Company, Inyo District, Tulare County California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 23d day of May, 1864, an assessment of twenty cents per share was levied upon the Capital Stock of said Company, payable immediately, in Gold Coin of the United States, to the Secretary, at the office of the Company, 728 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the Twenty-Fifth day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 9th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale.

N. G. FRENCH, Secretary.

22-4t Office, 728 Montgomery street, San Francisco.

Brewer Gold and Silver Mining Company, Silver King District, Amador county, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 23d day of May, 1864, an Assessment of fifteen cents per share was levied upon all the assessable Capital Stock of said Company, payable on the 21st day of June, A. D., 1864, in United States gold coin, to the Secretary, F. A. Brewer, No. 40 Montgomery Block, San Francisco, Cal.

Any stock upon which said Assessment shall remain unpaid on 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 7th day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale. By order of the Board of Trustees. F. A. BREWER, Sec'y

22-4t Office, No. 40, Montgomery Block, San Francisco, Cal.

Potomac Gold and Silver Mining Company, Reese River District, Lander county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held May 23d, 1864, an assessment of one ($1) dollar per share was levied upon the Capital Stock of said Company, payable immediately, in United States Gold Coin, to the Secretary, at the office of the Company, or to F. A. MILLER, Superintendent at Austin, N. T.

Any Stock upon which said assessment shall remain unpaid on the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 11th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale.

GEO. A. BALL, Sec'y.

22-4t Office, 509 Clay Street, San Francisco.

Office of the Ontario and Webster Gold and Silver Mining Companies, Location of Works, Montgomery District Mono County, California.

Notice is hereby given that at a meeting of the Board of Trustees of said Companies, held on the 26th day of May, 1864, an assessment of twenty-five cents per share was levied upon the assessable stock of said Companies, payable immediately, in United States gold coin, to the Secretary, at the office of said Companies.

Any stock upon which said Assessment shall remain unpaid on the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 9th day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. H. B. SHELDON, Secretary.

Office, N. E. corner Montgomery and Pine Sts., Room, No. 2, 3rd floor. Office hours from 12½ M. to 2 P. M. 22-4t

Mountain Mary Gold and Silver Mining Company, Silver Mountain, Alpine county, Cal.

Notice—There are delinquent upon the following described stock, on account of Assessment levied on the 23d day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:—

Names.	No. Certificate.	No. Shares.	Amt.
Goodell, C	not issued	250	$62 50
Haine, Samuel	not issued	100	25 00
Osborn, Charles	not issued	50	12 50
Skinner, M. B	not issued	240	60 00
Sykes, J. H	not issued	125	31 25
Sheldon, Mary A	not issued	125	31 25
Wright, J. O	not issued	25	6 25

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of April, 1864, so many shares of said stock as may be necessary, will be sold, at the office of the Company, on the 16th day of June, 1864, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

J. WARREN CLARK, Secretary.

Office, No. 439 Montgomery street, Room No. 5, 3d floor, San Francisco. 22-4t

Mechanical.

REYNOLD'S

Patent Cut-Off and Governor,

For Steam Engines.

127 of these Invaluable Machines

ARE NOW IN USE

In California and Nevada Territory, giving a perfectly regular motion and

Saving 20 to 75 per cent of the Fuel.

Steen's Improved Governor

IS THE CHEAPEST, SIMPLEST AND QUICKEST TO ACT AND least liable to get out of order of any Governor in use. It can be seen in operation at the Golden State Iron Works, at the Stone Breaker, foot of Montgomery Street and at the Sugar Refinery, 8th Street, San Francisco.

Steam Engines, Boilers, Pipes,

Hydraulic Presses, Shafting, Pulleys, Etc., Etc., bought and sold the best market rates.

Anti-Incrustation Powder,

A sure remedy for Scale in Steam Boilers, without injury to the Iron. In use for the past EIGHT years.

☞ Machinery Made and Repaired. ☜

—Refer to—

Sugar Refinery, San Francisco,
Cottell & Co., San Jose,
L. A. Booth, Esq., Virginia City,
And 2,000 others in the United States.

E. T. STEEN.

1-tf Nos. 37 & 39 Fremont Street and 42 & 44 Beal Street.

MINERS' FOUNDRY

—AND—

MACHINE WORKS,

First street, between Howard and Folsom streets,
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THE PROPRIETORS OF THIS NEW CONCENTRATOR, HAVING completed arrangements for its manufacture at the Fulton Foundry, in this city, now offer it to the public, with the fullest confidence that for the purpose for which it is designed

It Has No Equal in Use.

The principle of this machine, which is designed for a Concentrator exclusively, is entirely new. It is designed for separating finely divided quicksilver, amalgam and gold from the sands, and for concentrating and saving the sulphurets, and is to be placed behind all or any other machine in use. It is now in operation at

WHEELER & THAYER'S REDUCTION WORKS,

NORTH BEACH, SAN FRANCISCO,

To whom the Proprietors are permitted to refer, and where all interested in mining are respectfully invited to call and examine the best Concentrator in use.

This machine is now running on waste sands, from which it is taking out an average of 3¾ pounds of quicksilver for each ton of sand. Orders or letters of enquiry may be addressed to

HUNGERFORD & PRATER, Proprietors.
San Francisco, April 1st, 1864. 14v8-tf

To Quartz Miners.

ALL PERSONS INTERESTED IN MINING MACHINERY ARE invited to call at Donahue's Foundry and examine my improved Amalgamator. It is unquestionably superior to anything now known for amalgamating Silver and Gold. It works 1000 pounds at a time, and will amalgamate over three tons a day. By the motion of the revolving muller, the pulp is drawn through its centre and passes under it, between the grinding surfaces, to the circumference; from whence it passes again over the muller to the centre, through the holes and between the grinding surface to the circumference as before. Thus a constant circulation of the pulp is kept up, bringing the particles of ore again and again under the muller, and reducing the whole mass to an impalpable powder.

No quicksilver lies between the surfaces to be ground, but at the circumference and centre of the pan where the metal must pass through it as the pulp circulates.

A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S. Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.

sep21

WHEELER'S
Amalgamating and Separating Pans

IT IS ACKNOWLEDGED BY ALL WHO HAVE EXAMINED THE principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.

The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metal arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the triturating, this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.

Where these Pans have been introduced and operated by the side of others on sands from the same vat, the Wheeler Pans have uniformly gained a large percentage of metals, over its competitors, as well as a still larger percentage in the amount of work performed.

☞ These Pans may be seen in daily operation at the Miners, Foundry, on First street, San Francisco, where all interested are invited to call and examine for themselves.

no16-tf ZENAS WHEELER.

LLOYD'S NEW AMALGAMATOR
Is a Complete Success.

THE RESULTS OF THE WORK DONE BY IT DURING THE past week are:—From 300 pounds of tailings from Volcano, Amador county, worked for Mr. C. B. Culver, was obtained 6 oz. 12 dwts., equal to $10 to the ton of 2,000 pounds. The original ore was worked by the old Mexican arastra. From 6 0 pounds of tailings, the original ore having been worked by Professor Ryerson's Superheated Steam Machine, was obtained 65¼ ozs., Ryerson's machine having only got 5 ozs. to the ton from the ore.

Result from 50 pounds of ore from Amador county, worked for Mr. H. F. Williams, of Graves & Williams, of the Pacific Fruit Market, in this city, was obtained:

Gold	$73 33
Silver	42
To the Ton	$73 75

The assay being made by Messrs. Molitor & Co.

From 2 pounds of the same ore, worked for the same party, was obtained:

Gold	$63 30
Silver	04
To the Ton	$63 34

Assay made by Kellogg, Hewston & Co.

The mine from which the above ore was taken has turned out over $10,000 gold and silver, and the average yield as worked upon the spot, has only been $6 to the ton. Varney's Pan has obtained as high as $ 5 to the ton from this ore—the difference in favor of Lloyd's Amalgamator being over Varney's Pan, $53 34.4 per ton; and over the works at the mill, $62 51.2 per ton. Result from 15 pounds of ore from Queen City Company's claims, El Dorado Canon, Arizona Territory, worked for Mr. T. Mudge, who obtained: Gold, $4.19, Silver, $1.52, amounting to $2.71-00—equal to $361.33-00 to the ton—the assay being made by Messrs. Molitor & Co. Mr. Deetken, at his metallurgical works in this city, obtained by the Varney Pan $ 54 to the ton—the difference in favor of Lloyd being $207.35-00 to the ton.

Result of 68 pounds of ore from the Lady of the Lake Company, Leland Lode, San Francisco District, Arizona Territory, worked for G. W. C. Rowell, was obtained $7.44 in Gold, $0.25 in Silver—$7.69—equal to $2 6,18-100. Assay made by Messrs. Molitor & Co. 100 pounds of the same ore, worked by Wheeler's Pan, and assayed by Kellogg, Hewston & Co., yielded $7.58-00—equal to $101.60 to the ton. Difference in favor of Lloyd being $74.58-00 to the ton. Lloyd's is undoubtedly the best Amalgamator yet introduced, and is certain to supersede all other Amalgamators now in use. Communications for Mr. Lloyd, either for assaying or other machines, can be addressed to the care of Messrs. Kustell Brothers, Metallurgical Works, Bryant street, between Third and Fourth streets, San Francisco. 20v8-3m

Hepburn & Peterson's
AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION OF THE Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos. 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at Kustel Bros. works, Bryant St. etween 3d and 4th.

[Illustrated in the Mining and Scientific Press, April 9th, 1864.]

nov8 3m* HEPBURN & PETERSON.

GEO. A. METCALF. D. S. HUTCHINSON

METCALF & HUTCHINSON'S
PHOTOGRAPHIC GALLERY,

650 Washington St. Three doors below Kearney, San Francisco.

HAVING REFITTED THE ABOVE ROOMS THE FIRM ARE now prepared to furnish the public with a superior style o Picture, at a lower price than ever before offered in the city.

CARD PICTURES.

As we have every facility for producing these beautiful picture in all their different varieties, we have reduced the price to

THREE DOLLARS PER DOZEN!

Large sized Photographs $3—Extra copies $1 each.

AMBROTYPES in all Styles and Prices.

OLD PICTURES copied with care and accuracy, in any style desired. Particular attention paid to pictures of children.

Pictures painted in Oil or Water Colors, and retouched in Ind Ink by a competent artist. aug

Ore Bags.

10 000 HAND SEWED GOLD AND SILVER ORE BAGS, 100 lbs each. 15,000 Chicken Gunny Pocket Bags, suitable for Copper Ore, 125 lbs each. For sale in lots, by

REYNOLDS, HOWARD & FORD,
11v8-m 313 and 315 Davis Street, San Francisco

COMPLIANCE WITH LAW.

THE PHŒNIX
INSURANCE COMPANY,
—OF—
Hartford, Conn.,

HAS MADE FULL COMPLIANCE WITH THE STATE LAW BY DEPOSITING

$75,000

With Messrs. Banks & Co., Bankers, and holds

Controller's Certificate of Authority.

The patronage of the insuring public is respectfully solicited for this first-class American Insurance Company.

AGENTS IN ALL CITIES, TOWNS AND VILLAGES,

R. H. MAGILL,
General Agent.

CITY OFFICE—James King of William Building, Southwest corner of Montgomery and Commercial Streets, (Entrance. No. 603 Commercial.)

L. B. DELL, Resident Agent.
I. FRANK, City Solicitor. 20-tf

A. S. HALLIDIE & CO.,
WIRE ROPE MANUFACTURERS.

Established 1857.

Office, No. 412 Clay street—Works, North Beach, SAN FRANCISCO.

After seven years' use throughout the State of California and the Pacific Coast generally, we can confidently recommend Wire Rope for

HOISTING FROM DEEP MINES,
GUY ROPES FOR DERRICKS, &c.,
STANDING RIGGING FOR SHIPS,
FERRY ROPES FOR FERRIES,
SASH CORD FOR WINDOW SASHES,
ETC., ETC., ETC., ETC., ETC., ETC

It being Cheaper, Stronger, Lighter and More Durable than any other kind of Rope, and not stretching or shrinking by atmospheric changes.

MINING COMPANIES, by using it for Hoisting Purposes, save 66 per cent. on their outlay for other ropes.

Wire Fencing Strand,

For fencing large parcels of land—permanently, economically and expeditiously. Manufactured in any length desired.

Pamphlets containing weight, strength and price, forwarded free application to the Manufacturers.

WIRE SUSPENSION BRIDGES AND AQUEDUCTS

We are prepared to erect, of any span and capacity, and take pleasure in referring those interested to the many structures of this kind built by us in California, Oregon and British Columbia, of span from 200 to 400 feet. 3-3m

Owen's River Canal Company.

CAPITAL STOCK.....$1,000,000

10,000 Shares.....$100 per Share.

A PORTION OF THIS STOCK IS NOW OFFERED TO THE PUBlic, and recommended as an investment.

Full Paid and Unassessable Stock,

Also Assessable Stock, can be obtained of A. J. DOWNER & CO., the authorized Agents of the Company,
405 Montgomery Street.

President.....R. S. WHIGHAM.
Secretary.....W. FISK HITCHCOCK.
Treasurer.....MONTGOMERY GODLEY.
Superintendent.....WILLIAM FLEMING.
Engineer.....J. E. CLAYTON.

TRUSTEES:

R. S. WHIGHAM, formerly of Whigham's Mill,.....Nevada City.
WILLIAM FLEMING.....of San Francisco.
SPIER RIDDEL.....Paying Teller of Parrott & Co's.
ISAAC SWAIN.....of A. J. Downer & Co.
WILLIAM P. PRATT.....of Nash & Fogg.

Office of the Company 328 Montgomery Street. jlit

SQUARZA'S PUNCH.

FIRST PREMIUM

AT THE SACRAMENTO AGRICULTURAL STATE FAIR FOR THE YEAR 1862.

ALSO; FIRST PREMIUM

At the San Francisco Bay District Agricultural Fair, 1862.

MANUFACTORY, WHOLESALE AND RETAIL,

No. 44 Leidsdorff street, opposite the What Cheer House,

j2-1f San Francisco.

Pacific Mail Steamship Company.

THE FOLLOWING STEAMSHIPS WILL BE DESPATCHED FROM SAN FRANCISCO IN THE MONTH OF MAY, 1864.

May 13—GOLDEN AGE.....Wm. F. Lapidge, Commadder.
May 23—GOLDEN CITY.....R. H. Pearson, Commander.

From Folsom street Wharf, at nine o'clock A. M., punctually,

FOR PANAMA.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company.

A. B. FORBES, Agent P. M. S. Co.,

Mining Laws and Forms

JUST PUBLISHED, BY H. H. BANCROFT & CO., BEING A compilation of the Statutes of this State relating to Mining Corporations, Assessments, etc., with a digest of decisions of the Supreme Court and Forms of the Incorporation of Companies. Compiled by H. B. Congdon. 12mo., flexible cloth. $1,50. For sale at all the Bookstores. sep14-tf

New this Week.

Rubicon Gold and Silver Mining Company, No 2, Location of Mino, Keys District, Owens' River, Mono County, California.

Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Rubicon Gold & Silver Mining Company, No. 2, there will be sold, at public auction, to the highest bidder, for cash in United States Gold Coin, on the 17th day of June, 1864, at 11 o'clock, A. M., of that day, at the office of the Company, No. 7 & 8 third floor, No. 302 Montgomery street, San Francisco, so many shares of the capital stock of the Company, standing in the names of the following persons or shareholders, as will be necessary for the payment of assessment No. 5, of ten (10) cents per share, duly levied thereon April 18th, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said assessment and accruing charges are previously paid.

Names.	No. Certificates.	No. Shares.	Amt.
Aitkin, Samuel	198	10	$1 00
Adams, Blum & Co,	302	50	5 00
Adams, W J	303	25	2 50
Adams, W J	537	200	20 00
Adams, W J	540	100	10 00
Adams, W J	539	62	6 20
Aibisher, B	339	5	5 00
Brant, A	8	5	5 00
Blain, J D	89, 00, 91, 91—ea 25	100	10 00
Bryant, F	183	2½	25
Baker, E G	184	40	4 00
Brasch, H G	632	50	5 00
Brasch, H G	634	10	1 00
Boyer, W L	294	4	40
Bennet, George	696	25	2 50
Berry, John	398	100	10 00
Berry, John	399	10	1 00
Blakely, R F	455	12	1 20
Bain, Robert	535	50	5 00
Beckford, D R	574	50	5 00
Beckford, D R	575, 576—ea 25	50	5 00
Blattner, J J	527	15	1 50
Bland, Adam	no cer	150	15 00
Dush, Henry	no cer	150	15 00
Cook, Sarah	39	25	2 50
Cook, Sarah	no cer	125	12 50
Clark, A N	126	70	7 00
Clark, A N	127	5	50
Carr, J T	130	25	2 50
Carr, J T	131	50	5 00
Carr, J T	no cer	75	7 50
Cushman, C S	329, 330—ea 25	50	5 00
Chase, H A	375	5	50
Clark, G G	523, 524—ea 25	50	5 00
Chester, Henry	486	20	2 00
Chester, Henry	552, 553, 554, 556—ea 10	40	4 00
Chester, Henry	645	6	60
Chester, Henry	640	38	3 80
Chester, Henry	572	150	15 00
Chester, Henry	no cer	150	15 00
Chart, Obed	550	38	3 80
Cromwell, J L	647	10	1 00
Currier, Benjamin	no cer	150	15 00
Carter, W P	no cer	75	7 50
Doran, David	34	25	2 50
Doran, David	105	10	1 00
Doran, David	192	50	5 00
Doran, David	193	35	3 50
Doran, David	194	30	3 00
Derby, Charles	123	2½	25
Donohoe, William	300	5	50
Dore, Benjamin	134	25	2 50
Davis, W G	493	55	5 50
Davis, W G	604, 605, 606, 607, 608, 609—ea 25	150	15 00
Davis, W G	674, 692—ea 12	24	2 40
Davis, W G	675	13	1 30
Davis, W G	691	15	1 50
Davis, W G	no cer	28	2 80
Dongart, J J	578	7	70
Doud, Philo	594	10	1 00
Doud, Philo	595	0	90
Doud, Philo	no cer	131	13 10
Doscher, Henry	no cer	143	14 30
Diggings, Wesley	726	100	10 00
Diggings, Wesley	no cer	1400	140 00
Evans, John	2	4	40
Etique, Jean	351	50	5 00
Etique, Jean	no cer	95	9 50
Eichel, C	708	4	40
Errickson's Estate	341, 502, 503—ea 25	75	7 50
Errickson's Estate	460	14	1 40
Errickson's Estate	690	12	1 20
Fogler, Jos	146, 147, 222, 223—ea 5	20	2 00
Fogler, Jos	221	10	1 00
Fogler, Jos	224	95	9 50
Fogerty, Pat	212	10	1 00
Fifield, A B	452	14	1 40
Fellows, D A	516	25	2 50
Fillebrown, Jas	no cer	300	30 00
Gorrish, P P	544	12	1 20
Gennnz, A M	no cer	150	15 00
Hall, H B	37	140	14 00
Hathaway, Samuel	181	25	2 50
Harling, Charles	419	25	2 50
Harling, Charles	424	50	5 00
Harbinger, Carl	128	2½	25
Ham, C W	144	5	50
Ham, C W	no cer	145	14 50
Ham, S A	no cer	150	15 00
Holm, H	284	20	2 00
Holm, H	285, 286—ea 25	50	5 00
Holm, H	287	50	5 00
Hines, Herman	298	25	2 50
Horton, D B	274	10	1 00
Hall, Alonzo	no cer	22	2 20
Hayden, J H	355	25	2 50
Henderson, Thomas	390	25	2 50
Henderson, Thomas	391	50	5 00
Hyde, William H	no cer	150	15 00
Harris, J F	648, 649—ea 25	50	5 00
Harris, J F	701, 702—ea 50	100	10 00
Johnson, J B	0, 231, 232, 233, 234—ea 24	125	12 50
Johnson, J B	no cer	1305	130 05
Jones, P M	143	10	1 00
Jeffress, John	242	6	60
Jeffress, John	244	12	1 20
Jeffress, John	no cer	93	9 30
Kennedy, John	240	25	2 50
Kennedy, John	no cer	118	11 80
Kirby, William L	no cer	35	3 50
Kneedler, John	246	12	1 20
Kneedler, John	247	50	5 00
Kneedler, John	346	5	50
Kneedler, John	no cer	58	5 80
Kennedy, Thomas	326, 403—ea 5	10	1 00
Kennedy, Thomas	no cer	140	14 00
Kennedy, James	no cer	150	15 00
Kimball, M H	no cer	42	4 20
Lane, Levi C	14	100	10 00
Lane, Levi C	15	25	2 50
Lovejoy, A J	71	25	2 50
Lovejoy, A J	262	12	1 20
Louterwasser, C	188	25	2 50
Louterwasser, C	no cer	235	23 50
Lewison, Lewis	178, 179—ea 100	200	20 00
Lewison, Lewis	271	70	7 00
Loudon, William	320	5	50
Lee, Charles	482	14	1 40
Lee, Charles	510	70	7 00
Lee, Charles	551	12	1 20
Lee, Charles	585	20	2 00
Laundry, Lewis	481	12	1 20
Lyon, William S	489	29	2 90
Long, E estate of	495	315	37 15
Long, E estate of	496	150	15 00
Luelling, W H	520	240	24 00
Lovely, Horace	529	25	2 50
Lord, A J	553	12	1 20
Louterwasser, F P	707	12	1 20
Martin, Wheeler	5, 40, 41—ea 25	75	7 50
Martin, Wheeler	35	30	3 00
Martin, Wheeler	no cer	670	67 00
McCort, Robert	30	75	7 50
Molteler, Fred	366	12	1 20
Molteler, Fred	368, 360, 370, 371, 372—ea 20	100	10 00
Mottsler, Fred	373	21	2 10
Myers, Pinkus	87	75	7 50
Mahan, H H	168	25	2 50
Mallon, John	213	5	50
Mitchell, D H	322, 426—ea 25	50	5 00
Mitchell, D H	436, 437, 447—ea 12	30	3 60
Mitchell, D H	444	10	1 00
Molt, John P	639, 640—ea 75	150	15 00
Molt, John P	641, 642—ea 50	100	10 00
Molt, John P	643, 644—ea 25	50	5 00
Miller, P C	615, 616, 617—ea 25	75	7 50
Miller, P C	no cer	193	10 30
Mayhew, G S	392	5	50
Mayhew, G S	476	25	2 50
Mayhew, G S	no cer	70	7 00
Merrill, J L	465	25	2 50
Merrill, J L	460	7	70
Middleton, J H	517	12	1 20
Mahm, Anna	647	75	7 50
Miller, M M	587	150	15 00
Mason, J H	597	12	1 20
Moore, J J	683	25	2 50
Myers, Phillip	716	90	9 00
Melver, John	706	10	1 00
Myrick, J W	no cer	150	15 00
Nahl, W H A	394	25	2 50
Norman, D	428	25	2 50
Noble, G W	577	20	2 00
Neal, H R	636, 637—ea 50	100	10 00
O'Connell, James	257, 258—ea 50	100	10 00
O'Connell, James	259, 260—ea 25	50	5 00
Porter, Thomas H	173	10	1 00
Porter, Thomas H	no cer	105	10 50
Patterson, John	377	20	2 00
Patterson, John	475	150	15 00
Plumer, W S	397	10	1 00
Perkin, William	450	19	1 00
Pieket, E W	665	150	15 00
Pervear, T J	21	53	5 30
Pervear, T J	31	75	7 50
Pervear, T J	189	10	1 00
Pervear, T J	254	15	1 50
Pervear, T J	285	3	30
Roas, E A	272	10	1 00
Rath, Elias	265	5	50
Reas, J E	401	20	2 00
Reas, J E	705	22½	2 25
Reas, H M	679	20	2 00
Ramsey, Peter	511	5	50
Roberts, Eli	396	20	2 00
Robinson, W E	620, 621, 622, 623—ea 25	100	10 00
Rundlett, C F	625	5	50
Riley, C C	670	50	5 00
Reynolds, John	no cer	450	45 00
Santif, N	111	150	15 00
Santif, M	112	75	7 50
Santil, M	113, 114, 115—ea 25	75	7 50
Saulif, Jos	no cer	150	15 00
Still, Robert	472	50	5 00
Still, Robert	736	46	4 60
Stewart, James	195	15	1 50
Smith, Wm	201, 202, 203, 204, 205, 206—ea 25	150	15 00
Stranahan, David	239	25	2 50
Schmidt, J C	492	134	13 40
Spalding, C A	319, 364—ea 25	50	5 00
Spalding, C A	352, 353—ea 50	100	10 00
Sutherland, Jacob	3.2	62½	6 25
Swan, R R	510	25	2 50
Stadtfelt, Mary	631	7	70
Sanchez, F	469, 471—ea 12	24	2 40
Sanchez, F	526	13	1 30
Spencer, O W	618	50	5 00
Spencer, O W	630	18	1 80
Spencer, O W	no cer	1357	135 70
Silver, Frank	664	15	1 50
Simpson, George	671	12	1 20
Smith, Richard	684	25	2 50
Shoemaker, F	721	4	40
Shoemaker, F	725	65	6 50
Tunock, And	262	2	20
Tyler, B F	275	4	40
Terhume, C P	273	10	1 00
Tingstrom, A	no cer	137	13 70
Taylor, John	359	25	2 50
Taylor, John R	555	10	1 00
Von Gundy, Jos	175, 176—ea 25	50	5 00
Von Gundy, Jos	207	12	1 20
Von Gundy, Jos	no cer	388	38 80
Von Poser, H	525	12	1 20
Wainwright, William	85	10	1 00
Wainwright, Wilham	439	90	9 00
Winslow, E G	462	27½	2 75
Wunenberg, N H	119	50	5 00
Wunenberg, N H	121	25	2 50
Wunenberg, N H	122	15	1 50
Wunenberg, N H	407	10	1 00
Wunenberg, N H	408	30	3 00
Ware, Jos	235	2	20
Ware, Jos	583	6	60
Ware, Jos	668, 669—ea 12	24	2 40
Ware, Jos	711	75	7 50
Ware, Jos	718	25	2 50
Ware, Jos	no cer	129	12 90
Weston, D S	358	2½	25
Wymon, F C	400	20	2 00
Wood, William C	484	25	2 50
Walmsey, W W	590	5	50
Young, Richard	32	75	7 50
Young, Richard	no cer	25	2 50

By order of the Board of Trustees.

J. P. VAN HAGEN, Secretary.

Office, No. 302 Montgomery street, No. 7 and 8, 3d floor.
San Francisco, May 26, 1864. 22-2t

Cocheco Gold and Silver Mining Company, Office, 625 Clay street, San Francisco, California. Location, Humboldt District, N. T.

Notice is hereby given that in accordance with an order duly made by the Board of Trustees of the Cocheco Gold & Silver Mining Company, there will be sold at public auction at the Office of the Company, on Monday, May 30th, 1864, at 12 o'clock, M., to the highest bidder for cash, in U. S. Coin, so many shares of the Capital stock of said Company standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay all assessments now delinquent thereon, together with cost of advertising and all accruing charges, unless the same be previously paid.

Names.	No. shs.	Amt due	Names.	No. shs.	Amt due
Geo Acker	20	10 00	Henry Michaels	10	2 50
Mrs M A Torrey	30	15 00	N A Watson	50	12 50
Adrian Spear	10	5 00	Chas H Aitken	10	2 50
L Corey	30	15 00	P J Barber	25	6 25
Sam'l S Davis	20	10 00	A Burrill	10	2 50
N B Mulville	197	98 50	A Levy	1	25
Wm T Towle	15	7 50	S Reerdon	10	2 50
Miss Amelia Eaton	10	5 00	G B Hudson	10	2 50
T T Kneeland	50	25 00	A McCormick	5	1 25
Thomas Williams	5	2 50	John Lowry	10	2 50
Carlos Mills	3	1 50	C Gignoux	10	2 50
Wm H Manning	200	100 00	J B Bloomingdale	10	2 50
A B Schafer	50	25 00	Lydia Stewart	10	2 50
W H Vanderwator	35	17 50	B M Barker	10	2 50
W H Mills	305	150 00	J R Nealy	5	1 25
Chas McDonald	40	10 00	A W Garrett	10	2 50
W B Allen	10	2 50	John Taylor	5	1 25
Henry Maboney	5	1 25	Cath M Gilbert	10	2 50
Thomas Brown	5	1 25	J Hamilton	50	12 50
W H Harvey	15	3 75	J N Sewal	100	25 00
S P Cornwall	10	2 50	D Conrad	10	2 50
Caroline T Hall	10	2 50	Dr H Austin	10	2 50
Dan'l H Mitchell	25	6 25	H H Schafer	50	12 50
A N Byfield	65	16 25	Paul Rousso	10	2 50
J B Wells	20	5 00	Warren Holt	20	5 00
Henry Mess	50	12 50	Margaret Upton	10	2 50
Geo Robinson	50	12 50	S Coben	5	1 25
Jas Drury	30	7 50	Tabor & Hill	40	10 00
Richard Hall	20	5 00	Law Mok	20	5 00
F Breilleau	35	8 75	Joseph Wells	100	25 00
T H Downing	5	1 50	G T Sewal	10	2 50
Edmond Long	3	75	Thomas Prince	50	12 50
Jas R Gates	50	12 50	J G Klumpke	60	15 00
N Atkinson	228	57 00			

By order of the Board of Trustees.

18-5t C. W. HAYDEN, Sec'y.

POSTPONEMENT.—The above sale is postponed until WEDNESDAY, June, 1st, 1864, at 12 o'clock, M. and will then take place at the salesroom of Jerome Rice & Co, 327 Montgomery street, San Francisco. By order of the Board of Trustees.

22-1t C. W. HAYDEN, Sec'y.

Prima Donna Gold and Silver Mining Company, Devil's Gate District, Nevada Territory.

Notice.—There are delinquent upon the following described stock, on account of Assessment (No. 6) levied on the second day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	Certifs.	Shares.	Amt.
Briggs, John M	46	5	$2 50
Barker, S	81	20	10 00
Barker, S	84	5	2 50
Brewer, Mrs. H. W	142	5	2 50
Barker, S. F	153	95	47 50
Brewer, F. A	245	10	5 00
Chester, Henry	219	5	2 50
Harris, E. R	36	5	2 50
Harris, E. R	37	5	2 50
Harvey, Wm	74	5	2 50
Hamilton, Jas. E	93	20	10 00
Heath, Mrs. Jemima	118	5	2 50
Hageman, P	183	5	2 50
Lawton, Irving	230	5	2 50
Lentz, Wm. H	137	5	2 50
Lawrence, W. H	237	5	2 50
Morgan, F	238	20	10 00
Morgan, F	239	20	10 00
Milbury, Jos	96	10	5 00
Milbury, Mrs. Annie W	97	10	5 00
O'Bergh, John A	92	5	2 50
O'Neill, R. C	194	5	2 50
O'Neill, R. C	197	5	2 50
Page, M. B	38	5	2 50
Pratt, S. K	204	5	2 50
McGinnis, J. M	107	50	25 00
McGinnis, J. M	108	50	25 00
McGinnis, J. M	110	25	12 50
McGinnis, J. M	112	25	12 50
McGinnis, J. M	216	10	5 00
McGinnis, J. M	217	10	5 00
McGinnis, J. M	2 8	5	2 50
*Rotarmund, John	64	5	5 00
Reilly, Michael	123	40	20 00
Reilly, Michael	128	10	5 00
Rogers, Samuel	228	10	5 00
Rogers, Samuel	240	25	12 50
Scholtz, Charles	182	5	2 50
Tenney, Eugene B	47	10	5 00
Wheeler, Henry	41	5	2 50

*Also delinquent on Assessment No. 5.

And in accordance with law, and an order of the Board of Trustees, made on the 12th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at Public Auction, at the salesroom of John Middleton & Son, No. 400 Montgomery street, San Francisco, on WEDNESDAY, the 15th day of June, 1864, at the hour of 12 o'clock, M., of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

H. B. CONODON, Secretary.

20-5t Office No. 620 Washington street, Room 3, San Francisco.

Grafton Gold & Silver Mining Company, Reese River Mining District, N. T.

☞ GRAFTON GOLD AND SILVER MINING COMPANY, Reese River Mining District, Nevada Territory.—Notice.—There is delinquent upon the following described stock, on account of assessment levied on the 25th April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	Shares.	Amount.
S Redfield, not issued	5	$1 50
J T Lee, "	125	37 50
S W Lee, "	150	45 00
W W Cole, "	90	27 00
John Nickerson, "	10	3 00

And, in accordance with law and an order of the Board of Trustees, made on the 25th day of April, 1864, so many shares of each parcel of said stock, as may be necessary, will be sold at the salesroom of Jerome Rice & Co., 327 Montgomery street, San Francisco, on Wednesday, June 15th, 1864, at eleven o'clock a. m. of said day, together with cost of advertising and expenses of sale.

By order Board of Trustees.

D B FRANCIS, Secretary.
509 Clay street.

RICHARD WEGENER,
Accountant, Mining Secretary,
AND GENERAL AGENT.
No. 204 Montgomery St., Southeast cor. Montgomery & Pine Sts.,
11-m SAN FRANCISCO.

New Advertisements.

Ontario and Webster Gold and Silver Mining Companies, Montgomery District, Mono County, California.

Notice is hereby given that the Annual Meeting of the Stockholders of the Ontario and Webster Gold & Silver Mining Companies will be held on Monday, the 20th day of June, 1864, at 7½ o'clock P. M., at the office of the Companies, 302 Montgomery street, San Francisco. (22-1d) H. B. SHELDON, Secretary.

Rock Rose Gold and Silver Mining Company,

Gold Hill, N. T., (Office, 605 Sacramento street, San Francisco, May 27, 1864).

NOTICE.—There is delinquent upon the following described Stock, on account of an assessment levied April 5, 1864, of 25 cents, and assessments previously levied, the several amounts set opposite the names of the respective shareholders, as follows, to wit:

Names.	No. Certif	Shares.	Am't.
B G St John	1, 2, 3, 4, 5	100	25 00
Noble, Lovely	7, 8, 9, 10, 11, 12, 19, 20, 21, 22	100	25 00
John L Yeates, Jr.	23, 24, 25, 26	100	25 00
John W Gould,	34, 35, 36, 37	50	12 50
J A Moore,	38, 39, 40, 41, 42	25	6 25
G E Davis,	51 to 55	50	12 50
Marshall D Gardner,	56	10	2 50
Marshall D Gardner,	not issued	15	3 75
G A Vansyckel,	not issued	100	37 00

And in accordance with law, and an order of the Board of Trustees, made on the 27th day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold at the office of the Rock Rose Gold and Silver Mining Company, No. 605 Sacramento street, in the City and County of San Francisco, State of California, on Tuesday, the 14th day of June, 1864, at 10 o'clock A. M., to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

22-2t S. C. GARDNER, Secretary.

Salt Spring Valley Mining Company, Salt

Spring Valley, Calaveras County, California.

NOTICE.—There is delinquent upon the following described stock on account of assessments levied April 11th, 1864, and assessment levied previous thereto, the several amounts set opposite the name of the respective shareholders, as follows:

Names.	No. Certf.	Shares.	Am't.
Edward Cornitius,	28	25	2 50
R N Dean,	unissued	150	15 00
J W Lawson,	3	2	20
J W Lawson,	31	5	50
J W Lawson,	33	52	5 20
George Lytle,	unissued	150	60 00
Joseph McKenzie,	unissued	100	10 00
J V Martin,	34	24	2 40
Levi Patch,	unissued	18	5 95
J H Shirley,	54	26	2 60
J H Shirley,	55	5	50
J H Shirley,	unissued	20	2 00
Wm H Woodson,	unissued	75	48 25

And in accordance with law, and an order of the Board of Trustees, made on the 19th day of May 1864, so many shares of each parcel of said stock as may be necessary, will be sold in Salt Spring Valley, at J. Cohen's store, on the 11th day of June next, at 2 o'clock, P. M. of said day, to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

VICTOR ROSENBURG, Secretary.

Jenny Lind, May, 24th, 1864. 22-2t

Engineer.

A situation is wanted by a competent Engineer, who is prepared to pay particular attention to all kinds of work connected with civil mining and constructing Engineering. Companies requiring a practical Engineer, Surveyor or Draughtsman will do well to communicate.

Address "ENGINEER," Office of the Mining and Scientific Press, San Francisco. 22-tf

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San Francisco, May 24, 1864. 22-tf

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San Francisco, May 28, 1864 22v8

Is is full of the most valuable reading matter. Those at all interested in mining affairs should subscribe for it at once.—*Alameda Gazette.*

It is devoted to news, art, science and progress, and should receive a liberal support.—*Solano Press.*

George Leet Gold and Silver Mining Company, Crown Point Tunnel and Mining Company, Reese River Mining District, N. T.

NOTICE.—There is delinquent upon the following described stock on account of assessment levied on the 25th day of April, 1864, the several amounts set opposite the names of the respective shareholders as follows:

GEORGE LEET GOLD AND SILVER MINING COMPANY.

Names.	No. Cert.	No. Shares.	Amt.
J M Crump	1	23	$12 50
Mathew Plunkett	95 96 97 98	23	14 00
D Turner	7	5	2 50
John Gruber	8	23	10 00
R Craig	9	20	10 00
J M McCloud	10	5	2 50
Robert Little	12 to 15	45	23 00
Frank Snow	16 125 126 127 128 129	130	100 5-7 50 36
E A Isaacs	17 18 19 20	185 5-7	92 86
John A Weaver	24 121	60 5-7	30 35
George W Leet	56 57 58 59 60 61 62 63 6t 65 66 135 136	180 3-7	90 21
Samuel Groves	34 35	15	7 50
Daniel Liggett	36 37 38 39 40 42 122 132	90	45 00
John Liggett	41 to 55	105 5-7	52 86
George S Happ	79 80	20	10 00
W W Hartman	81 83 84 85 86 99 to 109	157 5-7	78 86
Hiram Stuleville	89 90	20	10 00
Plunkett & Dixon	91	25	12 50
B Calhane	92	10	5 00
Dent. R. Webber	110	30	15 00
Hardenbergh & Dyer	118	40	20 00
W S Head	119	10	5 00
H H Pearson	120	15	7 50
John Ritter	123	5	2 50
Michael Connolly	124	10	5 00
W C Kibbe	131	20	10 00
Geo S Croft	133	5	2 50
Geo S Hendricks	134	5	2 50

CROWN POINT TUNNEL AND MINING COMPANY.

Names.	No. Cert.	Shares.	Amt.
Edward Tompkins	1 2	100	$ 50 00
Edward Tompkins	not issued	100	50 00
O H Baley	3	25	12 50
Monroe Tompson	7	200	100 00
J Leffingwell	11	200	100 00
A D Osborn	13	200	100 00
G W Leet	16 to 25	200	100 00

And in accordance with the law and order of the boards of Trustees made on the 25 day of April, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the salesroom of Jerome Rice and Co. No. 327 Montgomery street, San Francisco, on Wednesday the 15th day of June, 1864, at 11 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with cost of advertising and expenses of the sale.

By order of the Board of Trustees.

D. B. FRANCIS, Secretary.

22-2t Office, 509 Clay St., San Francisco.

Scorpion Silver Mining Company, Virginia District, Nevada Territory.

Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Scorpion Silver Mining Company, there will be sold, at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on SATURDAY, May 28th, 1864, at 11 o'clock A. M. of that day, to the highest bidder, for cash, in U. S. coin, so many shares of the capital stock of said Company, standing in the names of the following shareholders, as will be necessary for the payment of an assessment of twenty-five cents per share, duly levied thereon by the Board of Trustees on the 21st day of March, A. D. 1864, and assessments previous thereto, together with the expenses of advertisement and sale, to wit:

Names.	Shares.	Assessments—No 20	No 21	No 22	No 23	No 24	No 25	Amt due.
B Bayerque	12						$3 00	$3 00
J T Hartwell	16					4 00		4 00
J L Bulford	59				14 75	14 75	14 75	44 25
S F Bulford	24						6 00	6 00
C Brond	10						2 50	2 50
F Boilleau	10			2 50	2 50	2 50	2 50	10 00
Mrs G Bunkers	10		2 50	2 50	2 50	2 50	2 50	12 50
S E Barnard	1			25	25	25	25	1 00
Rebecca Bones	4					1 00	1 00	2 00
S L Cotran	20		5 00	5 00	5 00	5 00	5 00	25 00
L Chopard	2				50	50	50	1 50
L E Coleman	2					50	50	1 00
Chas Clayton	5						1 25	1 25
C Chevallier	16				4 00	4 00	4 00	12 00
P Crozet	19						4 75	4 75
W D Dyer	12			3 00	3 00	3 00	3 00	12 00
— Deuiech	3						75	75
M Eldred Jr	115						28 75	28 75
E D Feusier	8				50	50	50	2 00	3 50
H Feusier	4						1 00	1 00
C Gignoux	10						2 50	2 50
F Henderson	228				57 00	57 00	57 00	171 00
H Henisch	10			2 50	2 50	2 50	2 50	10 00
R A Hendrickson	5						1 25	1 25
J R Hughes	12				3 00	3 00	3 00	9 00
N T Johnson	12			2 50			2 50	5 00
John Kelly	49				6 00	12 25	12 25	30 50
J B Lafargue	2			50	50	50	50	2 00
W W Morgan	2			50	50	50	50	2 00
John McKewen	9						2 25	2 25
John Palne	3	75	75	75	75	75	75	4 50
Emeline A Palne	3	75	75	75	75	75	75	4 50
M Pratt	2						50	50
P Robinson	100						25 00	25 00
Robt Sherwood	200						50 00	50 00
Herman Smith	10						2 50	2 50
Emma R Sneyder	1						25	25
Henry Vollers	5						1 25	1 25
E D Waters	12						3 00	3 00
Eliza A Waters	12						3 00	3 00
Ella Waters	1						25	25

By order of the Trustees.

W. H. MARTIN, Secretary.

San Francisco, April 28, 1864. 627 Clay street.

The above sale is postponed until SATURDAY, June 11th, 1864, at same hour and place as above mentioned. By order of the Trustees.

W. H. MARTIN, Secretary.

22-td No. 627 Clay street, San Francisco.

Agamemnon Gold and Silver Mining Company.

Location, Inyo District, Tulare County, California.

NOTICE.—There is delinquent upon the following described stock on account of assessments of twenty-five cents per share duly levied by order of the Board of Trustees of the above named Company, on the 30th day of October 1863, the several amounts opposite the names of respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amt.
Allen Caswell	1	10	$2 50
Allen Caswell	188	70	17 50
Allen Caswell	not issued	1	25
D. C. Norcross	not issued	19	4 75
P. M. Randall	not issued	29	7 25

And in accordance with law, and an orderof the Board of Trustees made on the 24th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on Wednesday, July 6th, 1864, at 12 o'clock, M., of said day, to pay said delinquent assessments, together with the costs of advertising and expenses of the sale.

J. F. MILLER, Secretary.

Office, No. 416, Washington street, San Francisco. 22-4t

Gobernadora Silver Mining Company, San Antonio District, Lower California.

NOTICE.—There is delinquent upon the following described stock, on account of Assessment levied on the 28th day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amt
John Brazer,	27, 41, 42—5 each	15	$15
John Brazer,	40, 43, 44, 90—10 each	40	40
John Brazer,	45	25	25
John Brazer,	51	30	30
J C Beideman,	100	30	30
Mary A Behan,	223	5	5
Richard Carnell,	181	15	15
A de Castillo,	234	5	5
T H Downing,	119	30	30
H T Dorrance,	212	8	8
H T Dorrance,	213	7	7
Wm Foss,	182	5	5
B F Freuch,	243	10	10
E R Hawley,	269, 270—25 each	50	50
Hopps & MacAbee	284	40	40
Wm Hazeltine,	291	18	18
A H Jordan,	286, 287—25 each	50	50
W H Keep,	211	10	10
W H Knapp,	70, 71, 98—10 each	30	30
W H Knapp,	73, 76—15 each	30	30
W H Knapp,	74	20	20
W H Knapp,	77	25	25
H Kilham,	235, 236—10 each	20	20
H Kilham,	237, 238, 239, 240, 241, 242—5 each	30	30
R G McClellan,	20, 21, 22, 23—50 each	200	200
R G McClellan,	24	20	20
R G McClellan,	220, 331—25 each	50	50
R G McClellan,	299	10	10
R G McClellan,	300, 301—5 each	10	10
W E Mayhew,	111	20	20
C H Mathews,	113	10	10
Charles McDonald,	183	5	5
Charles McDonald,	224	15	15
Thomas McDonough,	295	5	5
Miller & Brother,	229	10	10
Chas F Nolte,	245	20	20
J W Sprague,	78, 79—60 each	120	120
R A Sanford,	130	3	3

And in accordance with law, and an order of the Board of Trustees made on the 28th day of April, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on the 11th day of June, 1864, at the hour of 12 o'clock, M., of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

C. W. HAYDEN, Secretary.

22-2t Office, 625 Clay street, San Francisco

Great Western Gold and Silver Mining Company.

Notice is hereby given, that there are delinquent upon the following described stock, on account of assessment No. one (1) levied Nov. 17th, 1863, and assessment No. two (2) levied March 17th, 1864 the several amounts set opposite the names of the respective share holders, as follows:

Names.	No. Certif.	No. Asst.	No. Shs.	Am't
E. D. Spencer	32	1 & 2	10	$9 00
E. D. Spencer	no cer	1 & 2	140	126 00
James Collins	31 & 51	1 & 2	35	31 50
James Collins	no cey	1 & 2	42	38 25
M. P. Holmes	63, 64, 65	1 & 2	25	22 50
C. B. Genung	no cer	1 & 2	150	135 00
W. R. Stearns	no cer	1 & 2	150	135 00
E. D. Merriam	55, 56, 57, 58, 59, 66	1 & 2	90	81 00
J. W. Beauchamp	no cer	1 & 2	150	135 00
E. Minturn	no cer	1 & 2	150	135 00
M. H. Kimball	no cer	1 & 2	150	135 00
J. P. Davidson	no cer	1 & 2	150	135 00
J. R. Hughes	49	2	150	37 50
E. G. Barker	70, 71, 72	2	15	3 75
John Scott	28	2	3	75

And in accordance with law and an order of the Board of Trustees made on the 29th day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, on the 14th day of June, 1864, at the hour of 12 o'clock M, of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

BROCK JOHNSON, Secretary.

Office, No. 28 Government House, corner Washington and Sansome Street, San Francisco. 22-4t

St. Lawrence Gold and Silver Mining Company.

Location, Inyo District, Tulare County, California.

NOTICE.—There is delinquent upon the following described stock on account of assessments duly levied by order of the Board of Trustees of the above named Company, on the 30th day of October 1863, the several amounts set opposite the names of respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amt.
Ames Arnold	150	20	$10 00
Martin J. Burk	182	10	9 50
Allen Caswell	168	51 Bal due	19 75
A. Holbiib	26	39	19 50
B. McCarty	188	39	19 50
Geo. W. Paget	8	5	2 50
D. C. Norcross	142	6	3 00
D. C. Norcross	not issued	20	10 00
P. J. O'Connor	140	39	19 50
Chas. Rice	48	2	1 00
Susan L. Lott	49	5	2 50
H. P. Williams	151	19	9 50
Mary T. Rice	99	2	1 00
Elenor J. Lott	101	9	4 50
Elenor J. Lott	102	2	1 00
H. S. Wheeler	87	10	5 00
J. W. O'Brien	120	1	50

And in accordance with law, and an order of the Board of Trustees made on the 24th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on Wednesday, July 6th, 1864, at 12 o'clock M., of said day, to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

J. F. MILLER, Secretary.

Office, No. 416 Washington street, San Francisco.

Suerte Copper Mining Company, Carman Island.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held May 24th, 1864, an assessment of twenty-five cents per share, was duly levied upon the Capital Stock of said company, payable May 25th, 1864, in U. S. Gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 25th day of June, 1861, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 11th day of July, 1864, at 12 o'clock M. to pay the delinquent assessment and costs of advertising and expenses of sale.

By order of the board of Trustees. ISAAC TABOR, Sec'y.

22-4t Room 7, No. 502 Montgomery Street, San Francisco.

Adelaide Consolidated Silver Mining Company,

Colorado District, El Dorado Canon, Territory of Arizona. Office, 620, Washington street San Francisco.

NOTICE is hereby given that in accordance with the laws of the State of California, and in pursuance of an order of the Board of Trustees of the Adelaide Consolidated Silver Mining Company, duly made, May 23d 1864, there will be sold at auction at the office of said company, on the 27th day of June 1864, at 2 o'clock, P. M., to the highest bidder for cash in U. S. coin, so many shares of the capital stock of the company standing in the names of the following parties, as may be necessary to pay assessment No. 2 and 3 of fifty cents each, and levied by the Board of Trustees, August 27th, 1863, and December 12th, 1863, and, also, balances and other dues as specified herewith, together with all charges accruing from advertising and sale, unless all such dues are previously paid to the Secretary,

Names	Ass't.	No. Certif.	Shares.	Amt.
F A Burch,	2 and 3	26	15	$15 00
F A Burch,	2 and 3	33	7½	7 50
F A Burch,	2 and 3	35	50	50 00
F A Burch,	2 and 3	36	25	25 00
F A Burch,	2 and 3	163	12	12 00
J S Fitzgerald,	2 and 3	137	50	50 00
J S Fitzgerald,	2 and 3	140	20	20 00
J S Fitzgerald,	2 and 3	141	20	20 00
J S Fitzgerald,	2 and 3	142	20	20 00
J S Fitzgerald	2 and 3	143	20	20 00
J S Fitzgerald,	2 and 3	144	10	10 00
J S Fitzgerald,	2 and 3	145	10	10 00
J S Fitzgerald,	2 and 3	146	10	10 00
S Fitzgerald,	2 and 3	148	50	50 00
S Fitzgerald,	2 and 3	149	50	50 00
S Fitzgerald,	2 and 3	150	20	20 00
S Fitzgerald,	2 and 3	151	20	20 00
S Fitzgerald,	2 and 3	152	20	20 00
S Fitzgerald,	2 and 3	153	20	20 00
S Fitzgerald,	2 and 3	181	4	4 00
S Fitzgerald,	2 and 3	155	10	10 00
S Fitzgerald,	3	156	10	5 00
Charles Hamilton,	2 and 3	89	50	50 00
Charles Hamilton,	2 and 3	94	10	10 00
Charles Hamilton,	2 and 3	98	20	20 00
Charles Hamilton,	2 and 3	227	5	5 00
Charles Hamilton,	2 and 3	217	5	5 00
Charles Hamilton,	2 and 3	216	5	5 00
Charles Hamilton,	2 and 3	219	10	10 00
Charles Hamilton,	2 and 3	220	10	10 00
Charles Hamilton,	2 and 3	222	10	10 00
L B Wooster,	3	113	5	5 00
Joseph Eustis,	2 and 3	196	20	20 00
David Temple,	2 and 3	215	15	15 00
M D Fairchild,	3	164	13	7 50
John Hume,	2 and 3	64	12½	12 50
Frederic Hall,	3	53	20	10 00
R B Wilson,	3	168	10	5 00

2214 RODNEY CLARK, Sec'y.

Mammoth Gold and Silver Mining Company,

Rock Spring District, San Bernardino county.

NOTICE.—There are delinquent, upon the following described Stock, on account of Assessment levied on the 13th day of April, 1864, the several amounts set opposite the names of the respective Shareholders, as follows:

Names.	No. Certif.	No. Shares.	Am't.
Bushnell, R L	214	5	2 50
Cheney, Jesso	64	16 8-12	—
Cheney, Jesse	67	20	—
Cheney, Jesse	69	20	—
Cheney, Jesse	70	10	—
Cheney, Jesse	72	10	38 33
Conrad, D	120	7 3-12	—
Conrad, D	121	10	—
Conrad, D	122	10	—
Conrad, D	123	7 3 12	17 25
Chapin, G W	148	4 7-12	2 30
Crocker, J	184	16	8 00
Francis, D B	108	6 1-3	—
Francis, D B	109	10	—
Francis, D B	130	10	12 25
Flint, W K	144	8 8-12	4 33
Gray, C H	185	16	8 00
Hosgden, W	186	16	8 00
Ludlum, T B	171	10	—
Ludlum, T B	172	7 3-12	—
Ludlum, T B	173	17 3-12	17 25
Rawley, J B	176	2	1 00
Reed, C W	182	16	—
Reed, C W	198	8	12 00
Taylor, John	115	25	12 50
Webster, F E	238	5	2 50

And in accordance with law, and an order of the Board of Trustees, made on the 13th day of April, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, on the 28th day of May, 1864, at the hour of 11 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.. GEORGE BOWER, Secretary.

Office, 611 Clay street, Room 8, San Francisco.

San Francisco, May 14. 22-5t

The above sale is postponed until THURSDAY, June 2, 1864, at 11 A. M., at the same place. By order of the Board of Trustees.

San Francisco, May 28, 1864. G. BOWER, Secretary.

22-1t

Orient Gold and Silver Mining Company. Location, Inyo District, Tulare County, California.

NOTICE.—There is delinquent upon the following described stock, on account of assessments of fifty cents per share, duly levied by order of the Board of Trustees of the above named Company, on the 30th day of October, 1863, the several amounts set opposite the names of respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amt.
E A Atwood	133	20	$10 00
John Albert	not issued	4	7 00
Allen Caswell	1	10	5 00
Allen Caswell	157	15	7 50
Allen Caswell	175	68	34 00
D C Norcross	not issued	33	16 50
D M Randall	not issued	32	16 00

And in accordance with law, and an order of the Board of Trustees, made on the 24th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the sales room of Jerome Rice & Co., No. 327, Montgomery street San Francisco on Wednesday, July 6th, 1864, at 12 o'clock, M., of said day, to pay said delinquent assessment thereon, together with costs of Advertising and expenses of the Sale.

J. F. MILLER, Secretary.

22-4t Office, 416 Washington Street, San Francisco.

Rubicon Gold & Silver Mining Company No. 3, Location of mine Keys District Owens River, Mono County, California.

Notice is hereby given, that, In accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Rubicon Gold and Silver Mining Company, No. 3, there will be sold, at public auction, to the highest bidder for cash, in U. S. gold coin, on the 17th day of June 1864, at 11 o'clock A. M., of that day, at the office of the Company, No. 7 and 8, third floor, No. 302 Montgomery street, San Francisco, so many shares of the capital stock of the above Company standing in the names of the following persons, or shareholders, as will be necessary for the payment of assessment No. 5, of ten (10) cents per share, duly levied thereon, April 18th, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said assessment and accruing charges are previously paid.

Names.	No. certificates.	No. shares.	Amt.
Aitkin, Saml	214, 217	17	$1 70
Adams, Flinn & Co	313	50	5 00
Adams, W J	562	200	20 00
Adams, W J	563, 564—ea 100	200	20 00
Adams, W J	565	137	13 70
Albisher, Bruno	351	5	50
Brant, August	148	10	1 00
Blain, J D	101, 102, 103, 104—ea 25	100	10 00
Baker, E G	199	40	4 00
Boyer, W L	305	4	40
Beinet, Geo	724	25	2 50
Brogan, N	441	5	50
Brasch, H G	657	50	5 00
Brasch, H G	658	30	3 00
Brasch, H G	659	10	1 00
Blakely, R F	472	12	1 20
Baln. Robt	560	50	5 00
Beckford, D R	558, 559, 597, 598—ea 25	100	10 00
Bland, Adam	no cer	150	15 00
Bush, Henry	no cer	150	15 00
Cook, Sarah	39	25	2 50
Cook, Sarah	no cer	125	12 50
Carr, J F	146	25	2 50
Carr, J F	147	50	5 00
Carr, J F	no cer	75	7 50
Cushman, C S	342, 345—ea 25	50	5 00
Chase, H A	386	5	50
Campbel, Chas	485	15	1 50
Chester, Henry	446	50	5 00
Chester, Henry	459	25	2 50
Chester, Henry	603	35	3 50
Chester, Henry	668	6	60
Chester, Henry	669	59	5 90
Chester, Henry	699	150	15 00
Chester, Henry	no cer	150	15 00
Clark, G H	545, 546—ea 25	50	5 00
Chart, Obed	576	37	3 70
Cromwell, J L	670	10	1 00
Cremer, Benj	no cer	150	15 00
Carter, W P	no cer	75	7 50
Doran, David	118	5	50
Doran, David	205	50	5 00
Doran, David	206, 207—ea 35	70	7 00
Derby, Chas	145	2½	25
Dore, Benj	150	25	2 50
Donohue, Wm	309	5	50
Dunscomb, Ed	550	25	2 50
Davis, W G	424	200	20 00
Davis, W G	425, 426—ea 50	100	10 00
Davis, W G	509	55	5 50
Davis, W G 537, 628, 630, 631, 632, 633, 634—ea 25		175	17 50
Davis, W G	701, 720—ea 12	24	2 40
Davis, W G	703	13	1 30
Davis, W G	no cer	33	3 30
Dixon, I	599	50	5 00
Dougart, J J	600	7	70
Doud, Philo	620, 621—ea 9	18	1 80
Doud, Philo	no cer	132	13 20
Doscher, Henry	no cer	144	14 40
Diggins, Wesley	757	100	10 00
Diggins, Wesley	no cer	1400	140 00
Evans, John	2	4	80
Etique, J P	363	50	5 00
Etique, J P	no cer	95	9 50
Estate of E Errickson	353, 518, 519—ea 25	75	7 50
Estate of E Errickson	354	11	1 10
Estate of E Errickson	718	12	1 20
Eichel, C	735	4	40
Ferris, Wm F	127	15	1 50
Folger, Jos	161, 162, 236—ea 5	15	1 50
Folger, Jos	234	10	1 00
Folger, Jos	237	95	9 50
Fogerty, Patrick	226	10	1 00
Fellows, D A	538	25	2 50
Fifield, Wm	739	15	1 50
Fillebrown, Jas	no cer	300	30 00
Gerrick, P P	569	12	1 20
Genung, A M	no cer	150	15 00
Hall, H B	37	140	14 00
Hall, H B	no cer	5	50
Hathaway, Sam'l	196	25	2 50
Harbinger, Carl	144	2½	25
Ham, C W	159	5	50
Ham, C W	no cer	145	14 50
Ham, S A	no cer	150	15 00
Holm, H	294	20	2 00
Holm, H	295, 296—ea 25	50	5 00
Holm, H	297	50	5 00
Hall, Alonzo	325	4	40
Hall, Alonzo	no cer	146	14 60
Hayden, J H	368	25	2 50
Henderson, Thos	405, 406—ea 10	20	2 00
Henderson, Thos	407	50	5 00
Henderson, Thos	616	5	50
Harris, J F	671	25	2 50
Harris, J F	672	50	5 00
Johnson, J B	246, 247, 248, 249, ea 25	100	10 00
Johnson, J B	no cer	1305	130 50
Jeffress, John	258	12	1 20
Jeffress, John	no cer	93	9 30
Kirby, W L	no cer	35	3 50
Kennedy, John	254	25	2 50
Kennedy, John	no cer	113	11 50
Kneedler, Jno	260	12	1 20
Kneedler, Jno	261	50	5 00
Kneedler, Jno	358	5	50
Kneedler, Jno	no cer	58	5 80
Kennedy, Thos	237, 417, ea 5	10	1 00
Kennedy, Thos	no cer	140	1 40
Kennedy, Jas	no cer	150	15 00
Kimball, M H	no cer	42	4 20
Lane, Levi C	14, 15	125	12 50
Lovejoy, A J	83	25	2 50
Lovejoy, A J	276	12	1 20
Louterwasser, C	203	25	2 50
Louterwasser, C	no cer	235	23 50
Lewison, Lewis	190, 191, 192, ea 1 00	300	30 00
Loudon, Wm	331	5	50
Leggett, Thos W	404	10	1 00
Lee, Chas	526	8	80
Lee, Chas	517	13	1 30
Lee, Chas	609	20	2 00
Laundry, Lewis	497	12	1 20
Lyon, Wm S	503	29	2 90
Lyon, Wm S	732	7½	75
Long, E, Estate of	511	315	31 50
Long, E, Estate of	512	150	15 00
Lucilling, W H	542	240	24 00
Lovely, Horace	653	25	2 50
Lord, A J	676	12	1 20
Louterwasser, F P	733	12	1 20
Martin, Wheeler	4	25	2 50
Martin, Wheeler	35, 40, 41—ea 30	90	9 00
Martin, Wheeler	no cer	675	67 50
McCort, Robert	30	75	7 50
Main, E F	78	5	50
Mitchell, D H	333, 438—ea 25	50	5 00
Mitchell, D H	449, 450, 464—ea 12	36	3 60
Mitchell, D H	462	10	1 00
Myers, Pinkus	99	75	7 50
Mottelcr, Fred	378	12	1 20
Mottelcr, Fred	380, 381, 382, 383, 384—ea 20	100	10 00
Mottelcr, Fred	385	21	2 10
Mahan, H H	183	25	2 50
Mallen, Jno	227	5	50
Molt, Jno J	666, 667—ea 25	50	5 00
Miller, Peter C	356	7	70
Miller, Peter C	640, 641, 642—ea 25	75	7 50
Miller, Peter C	no cer	193	19 30
Mayhew, G S	429	5	50
Mayhew, G S	430	50	5 00
Mayhew, G S	494	25	2 50
Merrill, I L	481	25	2 50
Martell, Jno	507	20	2 00
Middleton, J H	539	12½	1 25
Muhm, Anna	573	10	1 00
Muhm, Anna	574	65	6 50
Miller, M M	611	150	15 00
Mason, J R	622	12	1 20
Moore, J J	711	25	2 50
Meiver, John	730	10	1 00
Myrick, J W	no cer	150	15 00
Nahl, H W A	410	25	2 50
Norman, D	438	25	2 50
Noble, G W	596	20	2 00
O'Connell, James	271, 272—ea 50	100	10 00
O'Connell, James	273, 274—ea 25	50	5 00
Porter, Thos H	188	10	1 00
Porter, Thos H	no cer	105	10 50
Patterson, John	389	20	2 00
Patterson, John	494	150	15 00
Plumer, J S	413	10	1 00
Perkin, Wm	473	19	1 90
Pickett, E W	689	150	15 00
Pickett, E W	690	50	5 00
Pervear, T J	21	53	5 30
Pervear, T J	31	75	7 50
Pervear, T J	267	15	1 50
Pervear, T J	399	3	30
Raymond, Chas	186	100	10 00
Rath, Elias	377	5	50
Reas, J E	415	20	2 00
Reas, J E	731	25	2 50
Richards, I	434	75	7 50
Reas, H M	706	20	2 00
Ramsey, Peter	537	5	50
Robinson, W E	645, 646, 647, 648—ea 25	100	10 00
Riley, C C	696	75	7 50
Riley, C C	697	50	5 00
Reynolds, John	no cer	450	45 00
Santif, N	124	150	15 00
Santiff, M	125	75	7 50
Santiff, M	126, 129, 130—ea 25	75	7 50
Stewart, James	210, 211	18	1 80
Stitt, Robert	489	50	5 00
Stitt, Robert	745	46	4 60
Smith, Wm	218, 219, 220, 221, 222, 223—ea 25	150	15 00
Schmidt, A C	508	134	13 40
Spalding, C A	330, 376—ea 25	50	5 00
Spalding, C A	374, 375—ea 50	100	10 00
Sutherland, Jacob	345	63	6 30
Sanchez, F	486, 488—ea 12	24	2 40
Sanchez, F	548	13	1 30
Spencer, O W	549	75	7 50
Spencer, O W	655	18	1 50
Spencer, O W	no cer	1,357	135 70
Swain, R R	635	25	2 50
Stadtfelt, Mary	656	7	70
Silver, Frank	688	15	1 50
Simpson Geo	698	12	1 20
Smith, Richard	712	25	2 50
Santif, Jos	no cer	150	15 00
Shoemaker, F	766	73	7 30
Tunock, A	275	2	20
Tyler, B F	306	3	30
Terhune, C P	310	10	1 00
Tengstrom, A	no cer	138	13 80
Taylor, Jno R	602	15	1 50
Van Hagan, I P	120	25	2 50
Van Hagan, I P	520, 521, 522, 523, 524, 525 ea 12	72	7 20
Van Hagan, I P	no cer	1,148	114 80
Vongundy, Jos	193, 194—ea 25	50	5 00
Vongundy, Jos	224	12	1 20
Vongundy, Jos	no cer	388	38 80
Van Hagan, J B	366	25	2 50
Von Poser, H	547	12	1 20
Van Vleck, D	750	250	25 00
Walnwright, Wm	97	10	1 00
Wainwright, Wm	453	65	6 50
Winslow, E G	478	27½	2 75
Wunenberg, N H	133	25	2 50
Wunenberg, N H	135	50	5 00
Wunenberg, N H	136, 137, 138—ea 5	15	1 50
Wunenberg, N H	421	10	1 00
Wunenberg, N H	422	30	3 00
Ware, Jos	245	2	20
Ware, Jos	607	6	60
Ware, Jos	694, 695—ea 12	24	2 40
Ware, Jos	738	75	7 50
Ware, Jos	749	25	2 50
Ware, Jos	no cer	129	12 90
Wickberry, Francis	743	100	10 00
Wickberry, Francis	746	175	17 50
Weston, D S	370	2½	25
Wyman, F C	414	20	2 00
Wood, W C	500	25	2 50
Walmesly, W W	615	5	50
Young, Richard	32	75	7 50
Young, Richard	no cer	25	2 50

By order of the Board of Trustees.

J. P. VAN HAGAN, Secretary.

Office, No. 302 Montgomery street, No. 7 and 8, 3d floor, San Francisco, May 27, 1864. 22-2t

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Lewis Consolidated Gold and Silver Mining Company.

Nicolaus Gold and Silver Mining Company, Reese River Mining District, N. T.

NOTICE.—There is delinquent upon the following described stock, on account of assessment levied on the 25th day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

LEWIS CONSOLIDATED GOLD AND SILVER MINING COMPANY.

Names.	No. cert.	No. Shares.	Amt.
Frank Snow	32 40 41 61 62 63 64 65 66		
	117 to 134	500	$125 00
Geo W Leet	11 52 to 60 and 67 to 83	400	100 00
S McBrown	21 85	75	18 75
John A Weaver	22 23 26 27 28 29 30 116	400	100 00
E A Isaacs	42 to 51	500	125 00
A Hariman	84	25	6 25
R Smith	86	33	8 25
W W Hanna	87 to 106	342	85 50
John Hill	107 108 109	50	12 50
Robert Litle	110 to 114	50	12 50
Hardenbergh & Dyer	115	100	25 00
R Huckins	not issued	25	6 25

NICOLAUS GOLD AND SILVER MINING COMPANY.

Names.	No. Cert.	No. Shares.	Amount.
W C Phillips	2	10	$2 50
W W Cole	4 and 17 to 26	150	37 50
E Hamel	6	37½	9 37
M G Lee	9 and 11 to 16	166	41 25
B Toland	7	37½	9 38

And, in accordance with law, and an order of the Board of Trustees, made on the 25th of April, 1864, so many Shares of each parcel of said Stock as may be necessary, will be sold at the Salesroom of Jerome Rice & Co., 327 Montgomery street, San Francisco, on Wednesday the 15th day of June, 1864, at the hour of 11 o'clock, A. M., of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

By order of the Board of Trustees.

D. B. FRANCIS, Secretary.

22-2t Office, 509 Clay Street, San Francisco.

Rubicon Gold & Silver Mining Company No. 4.—Keyes District, Owens River, Mono county, California.

Notice is hereby given that in accordance with the Laws of the State of California, and an order duly made by the Board of Trustees of the Rubicon Gold and Silver Mining Company, No. 4, there will be sold at Public Auction, to the highest bidder for cash, in United States Gold Coin, on the 17th day of June, 1864, at 11 o'clock A. M. of that day, at the office of the Company, No. 7 and 8 third floor, No. 302 Montgomery street, San Francisco, so many shares of the Capital Stock of said Company standing in the names of the following persons, or shareholders, as will be necessary for the payment of Assessment No. 5 of ten (10) cents per share, duly levied thereon April 18, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said assessment and accruing charges are previously paid.

Names.	No. Cer.	Shares	Amt.
Aitkin, Sam'l	190	10	$1 00
Adams, Blinn & Co.	293	50	5 00
Adams, Wm. J.	294	25	2 50
Adams, Wm. J.	535	200	20 00
Adams, Wm. J.	536, 537 ea 100	200	20 00
Adams, Wm. J.	538	137	13 70
Aibisher, B.	325	5	50
Blair, J. D.	79, 80, 81, 82 ea 25	100	10 00
Baker, E. G.	173	40	4 00
Boyer, W. L.	284	4	40
Brasch, H. G.	241	13	1 30
Brasch, H. G	628	50	5 00
Brasch, H. G	630	10	1 00
Bennet, Geo.	696	25	2 50
Blakely, R. F.	441	12	1 20
Bain, Roht.	534	50	5 00
Beckford, D. R.	531	50	5 00
Bland, Adam	no cer.	150	15 00
Bush, Henry	no cer.	150	15 00
Cook, Sarah	38	25	2 50
Cook, Sarah	no cer.	125	12 50
Clark, A. N.	118	5	50
Carr, J. T.	122	55	5 50
Carr, J. T	no cer.	75	7 50
Cashman, C. S	318, 319 25 ea.	50	5 00
Chase, H. A.	365	5	50
Chester, Henry	476	20	2 00
Chester, Henry	573	85	8 50
Chester, Henry	637	6	60
Chester, Henry	638	39	3 90
Chester, Henry	667	150	15 00
Chester, Henry	no cer.	150	15 00
Campbell Chas.	458	10	1 00
Cunningham, Z. W.,	440	50	5 00
Chart, Obed,	548	37	3 70
Clark, G. G.,	520, 521, each 25	50	5 00
Cromwell, J. L.,	639	10	1 00
Cassell, J. S.,	688	50	5 00
Currier, Benj.,	no Cer.	150	15 00
Carter, W. P.,	no Cer.	75	7 50
Doran, David,	34	25	2 50
Doran, David,	181	50	5 00
Doran David,	182, 183 each 10	20	2 00
Doran. David,	186	20	2 00
D' Derkey, Chas.,	120	2½	25
Dore, Benj.,	125	25	2 50
Donohue, Wm.,	288	5	50
Dunscomb, Edw.,	526	25	2 50
Dougart, J. J.,	570	7	70
Doud, Philo	592, 593, each 9	18	1 80
Doud, Philo,	no Cer.	132	13 20
Doscher, Henry,	no Cer.	143	14 30
Diggings, Wesley,	no Cer.	1400	140 00
Diggings, Wesley,	726	100	10 00
Davis, W. G.,	399	50	5 00
Davis, W. G.,	485	55	5 50
Davis, W. G.,	598, 602, 603, 604 05, 606, each 25	150	15 00
Davis. W. G.,	669, 691 each 12	24	2 40
Davis. W. G.,	673	13	1 30
Davis, W. G.,	no Cer.	33	3 30
Evans, John,	2	4	40
Etique, J. P.	337	50	5 00
Etique, J. P.,	no Cer.	95	9 50
Errickson, E., Estate of	327, 494, 495, each 25,	75	7 50
Errickson, E., Estate of	328	11	1 10
Errickson, E., Estate of	689	12	1 20
Eichel, C.	707	4	40
Fogerty Patrick	203	10	1 00
Fellows, D. A.	514	25	2 50
Folger, Jos.	136, 137, 213, each 5	15	1 50
Folger, Jos	211	10	1 00
Folger, Jos	214	95	9 50
Fillehrown, Jas	no Cert.	300	30 00
Gerrish, P. P	542	12	1 20
Genning, A. M	no Cert.	150	15 00
Hall, H. B.	37	140	14 00
Hall, H. B	no Cert.	10	1 00
Hughes, Rienzi	86, 87, each 5	10	1 00
Hathaway, Samuel,	170	25	2 50
Ham, C. W.	133	5	50
Ham, C. W.	no Cert.	145	14 50
Ham, S. A.	no Cert.	150	15 00
Harhinger, Carl	119	2½	25 00
Holm, H.	272	10	1 00
Holm, H.	274	20	2 00
Holm, H.	275, 276, each 25	50	5 00
Holm, H.	277	50	5 00
Hall, Alonzo	305	4	40
Hall, Alonzo	no Cert.	146	15 60
Hayden, J. H.	344	25	2 50
Hyde, Wm. H	no Cert.	150	15 00
Henderson, Thos.	587, 588, each 10	20	2 00
Henderson, Thos.	589	5	50
Harris, J. F.	640, 700, each 50	100	10 00
Harris. J. T.	641, 642, 643, each 25	75	7 50
Johnson, J. B.	10, 222, 223, 224, 225, each 25	125	12 50
Johnson, J. B.	no Cert.	1305	130 50
Jeffress, John	233	6	60
Jeffress, John	234	12	1 20
Jeffress, John	no Cert.	93	9 30
Kirby, Wm, L	no Cert.	85	8 50
Kennedy, Jno.	230	25	2 50
Kenuedy, Jno.	no Cert.	119	11 90
Kneedler, Jno.	236	14	1 40
Kneedler, Jno.	237	50	5 00
Kneedler, Juo.	332	5	50
Kneedler, Jno.	no Cert.	56	5 60
Kennedy, Thos.	316, 390, each 5	10	1 00
Kennedy, Thos.	no Cert.	140	14 00
Killian, F.	645	7	70
Kennedy, Jas.	no Cert.	150	15 00
Kimhall, M. H.	no Cert.	42	4 20
Lane, Levi C	14	100	10 00
Lane, Levi C.	15	25	2 50
Lovejoy, A. J	61	25	2 50
Lovejoy, A. J.	252	12	1 20
Louterwasser, C.	177	25	2 50
Louterwasser, C.	no Cert.	235	23 50
Lewison, Louis	164, 165, 166 each 100	300	30 00
Loudon, Wm.	310	5	50
Lee, Chas.	472	3	30
Lee, Chas.	502	30	3 00
Lee, Chas.	549	13	1 30
Lee, Chas.	579	20	2 00
Laundry, Lewis	471	12	1 20
Lyon, Wm. F.	479	28	2 80
Lyon, Wm. F.	704	17½	1 75
Snelling, W. H.	517	240	24 00
Long, E., estate of.	487	315	31 50
Long, E., estate of,	488	150	15 00
Lovely Horace,	625	25	2 50
Lord, A. J.,	647	12	1 20
Louterwasser, F. P.,	706	12	1 20
Martin Wheeler,	35	15	1 50
Martin Wheeler,	39, 40, 20 each	40	4 00
Martin Wheeler,	no cer	675	67 50
Mitchell, D. H.,	311	25	2 50
Mitchell, D. H., 419, 420, 436,	12 each	36	3 60
Mitchell, D. H.,	432	10	1 00
McCort Robert,	30	75	7 50
Main, Emma F.,	56	5	50
Myers, Pinkus,	77	75	7 50
Motteler, Fred,	356	12	1 20
Mottelcr, Fred, 358, 359, 360,	361, 362, each 20	100	10 00
Motterlr, Fred.	363	21	2 10
Mahan, H. H.,	157	25	2 50
Mallan, John,	204	5	50
Molt, John P.,	219	50	5 00
Miller, Peter C., 612, 613, 614,	25 each	25	2 50
Miller, Peter C	no Cer	193	19 30
Mayhew, G. S.,	383	5	50
Mayhew, G. S.	no Cer	20	2 00
Merrill, I. L.,	453	25	2 50
Merrill, I. L.,	454	7	70
Martel, John,	482	25	2 50
Muhm, Anna,	546	75	7 50
Miller, M. M.,	581	150	15 00
Mason, J. H.,	594	12	1 20
More. J. J.,	681	25	2 50
McIver, John	705	10	1 00
Myrick, J. W	no Cer.	150	15 00
Norman, D.	411	25	2 50
Nohle, G. W.	567	20	2 00
O'Connell, Jas.	247, 248 50 ea	100	10 00
O'Connell, Jas.	249, 250 25ea	50	5 00
Oherer, Jos.	no Cer.	150 bl. 50	7 60
Porter, Thos. W.	162	10	1 00
Porter, Thos. W .	no Cer.	105	10 50
Patterson, Jno.	367	20	2 00
Patterson, Jno.	468	150	15 00
Plummer, J. W.	386	10	1 00
Perkin, Wm.	445	19	1 90
Picket, E. W.	659	150	15 00
Pervear, T. J.	21	53	5 30
Pervear, T. J.	31	75	7 50
Pervear, T. J.	243	15	1 50
Pervear, T. J.	377	3	30
Raymond, Chas.	262	25	2 50
Rath, Elias	355	5	50
Richards, I.	406	75	7 50
Reas. J. E.	388	20	2 50
Reas, J. E	703	25	2 50
Reas, H. M.	676	25	2 50
Ramsey, Peter	503	5	50
Rohinson, W. E.	617, 618, 619, 620 each 25	100	10 00
Rnndlet, C. F.	621	5	50
Riley, C. C.	664	75	7 50
Reynolds, Jno.	no Cer.	450	45 00
Santiff, N.	101	150	15 00
Santiff, Mary	102	75	7 50
Santiff, Mary	103, 104, 105 ea 25	75	7 50
Santiff, Jos.	no Cer.	150	00 15
Still, Robert,	463	50	5 00
Still, Robert,	715	71	7 10
Stewart, James,	187	15	1 50
Schmidt, J. C.,	484	134	13 40
Smith, Wm.,	193, 194, 195, 196, 197, 198, each 25	150	15 00
Spalding, C. A.,	309, 353 each 25	50	5 00
Spalding, C. A.	352, 354 each 50	100	10 00
Sutherland, Jacob,	320	50	5 00
Sanchez, F.,	461, 462, each 12	24	2 40
Sanchez, F.,	523	13	1 30
Spencer, O. W.	524	75	7 50
Spencer, O W.,	615	50	5 00
Spencer, O. W.,	626	18	1 80
Spencer, O. W.,	no Cer	1357	135 70
Leiver, W. H.,	525	25	2 50
Swain, R. R.,	607	25	2 50
Stadtfelt, Mary,	627	7	70
Silver, Frank,	658	15	1 50
Simpson, George,	665	12	1 20
Smith, Richard,	682	25	2 50
Shoemaker, F.,	725	73	7 30
Tingstrom, A.,	no Cer.	138	13 80
Tunock, Andrew,	252	2	20
Tyler, B. F.,	285	3	30
Terhune, C. P.,	289	10	1 00
Taylor, John,	349	10	1 00
Taylor, John R.,	572	15	1 50
Van Hagan, I. P.,	98	25	2 50
Van Hagan, I. P.,	496, 497, 498, 499, 500, 501, each 12	72	7 20
Van Hagan, I. P.,	no cer	1148	114 80
Von Gundy, Jos.	167, 168, each 20	40	4 00
Von Gundy, Jos	199	12	1 20
Von Gundy, Jos	no Cer.	398	39 80
Van Hagan, J. B.	343	25	2 50
Van Poser,	522	12	1 20
Van Vleck, D.	666	250	25 00
Wainwright, Wm.	75	10	1 00
Wainwright, Wm	423	55	6 50
Winslow, E. G	393	27½	2 75
Wunnenberg, N. H.	108	25	2 50
Wnnenberg, N. H.	110	50	5 00
Wunnenberg, N. H.	112, 113 ea 15	10	1 00
Wunnenberg, N. H	395	30	3 00
Wickberry, F	713	100	10 00
Wickherry, F.	716	175	17 50
Ware, Jos.	221	2	20
Ware, Jos.	577	6	60
Ware, Jos.	662, 663 ea 12	24	2 40
Ware, Jos.	710	75	7 50
Ware, Jos.	719	25	2 50
Ware, Jos.	no Cer.	129	12 90
Weston, D. S.	347	2½	25
Wyman, F. C	387	20	2 00
Welch, J. P.	431	10	1 00
Wright, Henry	460	25	2 50
Wood, Wm. C	474	25	2 50
Webster, B. F.	483	25	2 50
Went, H.	568, 569 ea 50	100	10 00
Walmsley, W. W	585	5	50
Young, Richard	32	75	7 50
Young, Richard..	no Cer.	25	2 50

By order of the Board of Trustees.

J. P. VAN HAGAN, Secretary.

Office, Rooms 7 and 8, third floor, No. 302 Montgomery street, San Francisco, May 27, 1864. 22-2t

Wide West Copper Mining Company, Copper Canon, Calaveras County, State of California.

Notice.—There are delinquent, upon the following described stock, on account of assessments levied on Dec. 12th 1863, and March 26th 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Assessment No. 1,

Names.	No. Cert.	No. Shares.	Amt.
Bateman A.	114	119	$29 75
Assessment No 2, Levied Dec. 12th, 1863.			
Bateman, A.	114	119	29 75
Logan, James	67	150	37 50
Geddes, W. H.	85	50	12 50
Geddes, W. H.	86	50	12 50
Geddes, W. H.	87	25	6 25
Geddes, W. H.	88	25	6 25
Assessment No. 3, Levied March 26th 1864.			
Logan, James	67	150	45 00
Geddes, W. H.	85	50	15 00
Geddes, W. H.	86	50	15 00
Geddes W. H.	87	25	7 50
Geddes, W. H.	88	25	7 50
Tilley, W. J.	6	50	15 00
Tilley, W. J.	7	50	15 00
Tilley, W. J.	8	50	15 00
Isaacs, A. C.	10	37	11 10
Felton, H. T.	20	10	3 00
Felton, H. T.	21	10	3 00
Felton, H. T.	81	10	3 00
Felton, H. T.	82	10	3 00
Rawton, J. A.	27	10	3 00
Rawson, J. A.	23	5	1 50
Rawson, J. A.	47	5	1 50
Otis, Stephen	39	150	45 00
Otis, Stephen	74	150	45 00
Otis, Stephen	84	40	12 00
Martin, R. P.	64	150	45 00
Greenman, L. B.	80	10	3 00
Lipe, Seber	89	10	3 00
Bateman, A.	114	119	35 70
Linsey, E. W.	109	10	3 00

And in accordance with law, and an order of the Board of Trustees made on the 24th day of May, 1864, so many Shares of each parcel of said Stock as may be necessary, will be Sold at Jerome Rice & Co's., 327 Montgomery street, on the 13th day of June, 1864, at the hour of 10 o'clock, A. M., of said day, to pay said delinquent Assessment thereon, together with costs of Advertising and expenses of the Sale.

M. G. ELMORE, Secretary.

Office, 645 Clay street, San Francisco. 22-4t

Meetings Advertised on or Before May 21.

Equal Chance Mining Company.—The First Annual Meeting of the Stockholders in the above named Company, for the election of Trustees, will be held on Monday, the 13th day of June next, at 2 o'clock, P. M., at the office of the Secretary, 614 Montgomery street. D. M. HOSMER, Secretary.
San Francisco, May 13th, 1864. 20-td

Table Mountain Copper Mining Company.—Notice is hereby given, that the Annual Meeting of Stockholders of the Table Mountain Copper Mining Company, Stanislaus District, Calaveras county, for the election of Trustees, amendment of By-Laws, and the transaction of any other business that may come before the meeting, will be held, at the office of the Company, No. 645 Clay street, San Francisco, on Monday, the 13th day of June next, at 7½ o'clock P. M. M. G. ELMORE, Secretary.
San Francisco, May 21st, 1864. 21-td

Summit Pass Gold and Silver Mining Company, Tuolumne County, California.
The regular ANNUAL MEETING of the Stockholders of said Company for the election of Trustees, will be held at Room 16, No. 523 Clay street, on the second TUESDAY of June, at 7½ o'clock, P. M.
T. B. LUDLUM, Secretary.
San Francisco, May 14th, 1864. 21-3t

Point Arena Petroleum Mining Company.—The Shareholders of the Point Arena Petroleum Mining Company are hereby notified that the Annual Meeting, for electing officers and other general business, will be held, at the Secretary's office, corner of Sansome and Jackson streets, San Francisco, on the 25th day of June, 1864, at 7 o'clock P. M. The Stock is now in the Secretary's hands, ready to be issued to all parties entitled to the same.
D. S. CUTTER, Secretary. J. R. TOBIN, President.
San Francisco, May 20, 1864. 21-4t

Wide West Copper Mining Company, Stanislaus District, Calaveras county, Cal.
A STOCKHOLDERS' MEETING of the Wide West Copper Mining Company will be held at the office of the Company, No. 645 Clay street, on Tuesday, May 31st, 1864, at 7½ P. M., for the election of officers, and such other business as may come before it.
M. G. ELMORE, Secretary.
San Francisco, April 29th, 1864. 18-4t

Pena Silver Mining Company.—Notice is hereby given that the annual meeting of the Stockholders, of the "Pena Silver Mining Company," will be held at the Office of the Secretary, No. 411 Clay street, on WEDNESDAY, the 8th day of June, 1864, at 7 o'clock, P. M., for the purpose of electing a Board of five Trustees for the ensuing year. By order.
WM. FAULKNER, Secretary.
April 26 1864. (18-4t) Office, 411 Clay street San Francisco.

La Marronena Silver Mining Company.—Notice is hereby given that the annual meeting of the Stockholders of the La Morrenena Silver Mining Company will be held at the Office of the Secretary, No. 411 Clay street, on WEDNESDAY, the 8th of June, 1864, at 4 o'clock, P. M., for the purpose of electing a Board of Trustees for the ensuing year. By order.
WM. FAULKNER, Secretary.
April 26, 1864. (18-4t) Office, 411 Clay street, San Francisco.

Excelsior Gold and Silver Mining Company, Reese River District, Lander county, Nevada Territory.
Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 22nd day of March, 1864, an assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable in Gold Coin of the United States, to the Secretary, or to SAMUEL DONNELLY, Superintendent of the Company, at Austin, N. T. By order of the Board of Trustees.
J. CAMMET, Secretary.
20-5t Office, No. 321 Front Street, San Francisco.

Union Gold and Silver Mining Company,

Russ District, Tulare County, California.

NOTICE.—The Stockholders of the above named Company, are requested to hand in to the Secretary, their Certificates of Stock in the above named Company without delay, and receive in lieu thereof, Certificates of Stock of the Eclipse Gold and Silver Mining Company, as per resolution unanimously adopted at the Stockholder's meeting, held April 26th, 1864.
By order of the President. JAS. C. NORRIS, Sec'y.
San Francisco, May 3d, 1864. [19-4t] Office, 430 Jackson street.

Sore Throat, Coughs, Colds, and similar troubles, if suffered to progress, result in serious Pulmonary, Bronchial and Asthmatic affections; oftentimes incurable.
BROWN'S BRONCHIAL TROCHES
are compounded so as to reach directly the seat of the disease and give almost instant relief.
Agents for California, REDINGTON & Co., San Francisco. 19-1m

Dissolution of Copartnership.

The Copartnership heretofore existing between George Gibbons and W. J. Woodley is this day, the 20th of April, 1864, dissolved by non-agreement of the above parties.

CAUTION.—The public against negotiating or purchasing any mining stock heretofore existing under and in said partnership.
GEORGE GIBBONS.
Santa Catalina Island, Los Angeles Co., 20th April, 1864. 21-4t*

Exchange Gold and Silver Mining Company, Reese River District, Lander county, N. T.
Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 30th day of April, 1864, an assessment of 25 cents per share was levied upon the Capital Stock of said company, payable immediately, in U. S. Gold Coin, to the Secretary, or to CHARLES H. FISKE, Austin, N. T.
Any stock upon which said assessment shall remain unpaid on the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 22d day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the board of Trustees. C. W. M. SMITH, Secretary.
19-4t Office, No. 29 Gov't House, San Francisco.

Assessments Advertised on or Before May 21.

Augusta Gold and Silver Mining Company, Augusta District, Lander county, N. T. Office, 406 Front street, San Francisco, May 20th, 1864.
Notice is hereby given, that at a meeting of the Trustees of said Company, held November 2d, 1863, an Assessment, No. 1, of twelve and one-half (12½) cents per share was levied upon the Capital Stock of said Company. Also at a meeting of the Trustees of said Company, held March 9th, 1864, an Assessment, No. 2, of twelve and one-half (12½) cents per share was levied upon the Capital Stock of said Company. Both Assessments, No. 1 and No. 2, payable immediately in United States gold coin, to the Treasurer, at the office of said Company, or to John Moffet, Superintendent of said Company, at the mine, in Nevada Territory.
Any stock upon which said Assessments shall remain unpaid on the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 25th day of July, 1864, to pay the delinquent Assessments, together with costs of advertising and expenses of sale.
21-4t. JOHN SHAW, President.

Sisters Gold and Silver Mining Company, Augusta District, Lander county, N. T. Office, 406 Front street, San Francisco, May 20th, 1864.
Notice is hereby given, that at a meeting of the Trustees of said Company, held October 17th, 1863, an Assessment, No. 1, of fifteen (15) cents per share was levied upon the Capital Stock of said Company. Also at a meeting of the Trustees of said Company, held March 9th, 1864, an Assessment, No 2, of fifteen (15) cents per share was levied upon the Capital Stock of said Company. Both Assessments, No. 1 and No. 2, payable immediately, in United States gold coin to the Treasurer at the office of said Company, or to John Moffet, Superintendent, at the mine, in Nevada Territory.
Any stock upon which said Assessments shall remain unpaid on the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 25th day of July, 1864, to pay the delinquent Assessments, together with costs of advertising and expenses of sale.
21-4t J. FRANK MILLER, President.

Ophir of the Colorado Silver Mining Company, El Dorado Canon, Arizona Territory.
Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of May, 1864, an Assessment of two dollars per share was levied upon the Capital Stock of said Company, payable on the 17th day of May, 1864, in United States gold coin to the Secretary.
Any stock upon which said Assessment shall remain unpaid on the 18th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. T. A. MUDGE, Secretary.
21-4t Office, 528 Clay street, San Francisco.

Joe Douglass Gold and Silver Mining Company, Reese River District, Lander county, Nevada Territory.
Notice is hereby given, that, at a meeting of the Board of Trustees of said Company, held on the 18th day of May, 1864, an assessment of 50 cents per share was levied upon the capital stock of said Company, payable on the 19th day of May, 1864, in United States gold coin, to the Secretary, or to the Superintendent, JOSEPH WHITE, at Austin, N. T.
Any stock upon which said assessment shall remain unpaid on Saturday, the 18th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 2d day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.
ROBERT T. POLK, Secretary.
21-4t Office, No. 35 Government House, San Francisco.

Great Central Tunnel Company, Virginia City, Nevada Territory.
Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 17th day of May, 1864, an assessment of forty cents per share was levied upon the Capital Stock of said Company, payable immediately, in United States gold coin, to A. C. Nichols, No. 326 Clay street, San Francisco, or MELVILLE KELSEY, Virginia City.
Any Stock upon which said assessment shall remain unpaid on Saturday, the 18th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 6th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.
21-4t MELVILLE KELSEY, Sec'y., Pro. tem.

Mt. Zion Gold, Silver and Copper Mining Company, Clayton District, Contra Costa county, Cal.
Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of May, 1864, an Assessment, No 12, of fifty cents per share was levied upon the Capital Stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at his office, 240 Montgomery street San Francisco.
Any stock upon which said Assessment shall remain unpaid on Saturday, the 18th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday the 6th day of July, 1864, to pay the delinquent Assessment, together with the costs of Advertising and expenses of the sale. By order of the Board of Trustees.
A. G. WOOD, Secretary.
Office, No. 240 Montgomery street, No. 4, 2d floor. 21-4t

Nevada Copper Mining Company, Nevada County, State of California.
Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 14th day of May, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable immediately in U. S. gold coin, to the Secretary, at the office of the Company, or to the Superintendent, E. W. MASLIN, at Grass Valley.
Any stock upon which said Assessment shall remain unpaid on the 18th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 2d day of July, 1864, to pay the delinquent Assessment, together with the costs of Advertising and expenses of sale.
RICHARD S. CLARK, Secretary.
Office, 610 Merchant street, San Francisco. 21-4t

Astor Ledge and Company, Ravenswood District, Lander county, Nevada Territory.
Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 11th day of May, 1864, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable immediately to the Secretary, at No. 3, Armory Hall, 3d floor, corner of Montgomery and Sacramento streets.
Any stock upon which said assessments shall remain unpaid on the 11th day of June, 1864, will be advertised on that day as delinquent and unless payment shall be made before, will be sold on the 29th day of June, 1864, to pay the delinquent assessments, together with costs of advertising and expenses of the sale.
S. PURDY, Secretary.
Office, Armory Hall, Montgomery and Sacramento sts. 20-4t

Ophir of the Colorado, No. 1, Gold & Silver Mining Company, Location of Claim, El Dorado Canon, Territory of Arizona.
Notice is hereby given that at a meeting of the Trustees of said Company, held on the 7th day of May, A. D., 1864, an assessment of fifteen (15) cents per share was levied upon the Capital Stock of said Company, payable on the 8th day of June, A. D., 1864, to the Secretary in U. S. Gold Coin,
Any stock upon which said assessment shall remain unpaid on the 8th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 20th day of June, to pay the delinquent assessment, together with cost of advertising and expenses of sale. RODNEY CLARK, Sec'y.
Office, San Francisco, No. 620 Washington Street, Room No. 13.
20-4t

Wall Street Gold and Silver Mining Company, Reese River District, Lander County, N. T.
Notice is hereby given that at a meeting of the Board of Trustees of said company, held on the 3d day of May, 1864, an assessment of fifty cents per share was levied upon the capital stock of said company, payable immediately, to the Secretary of the company, in U. S. Gold Coin.
Any stock upon which said assessment shall remain unpaid on Saturday the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday the 18th day of June, 1864, to pay the delinquent assessment, together with costs of advertising, and expenses of the sale. By order of the Board of Trustees.
W. H. DUDLEY, Sec'y.
19-4t Office, No. 528 Montgomery Street, San Francisco.

Mount Vernon Gold and Silver Mining Company, Smoky Valley Mining District, Lander County, Nevada Territory.
Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 7th day of May, 1864, an assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable immediately, to the Secretary of the Company, in U. S. Gold Coin.
Any Stock upon which said assessment shall remain unpaid on SATURDAY, the 11th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 25th day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale By order of the Board of Trustees.
WM. H. DUDLEY, Secretary.
20-4t Office, No. 528 Montgomery St., San Francisco.

Zenith Gold and Silver Mining Company, Mountain Ranch District, Calaveras county, California.
Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 3d day of May, 1864, an Assessment, No. 5, of fifty cents per share, was levied upon the Capital Stock of said Company, payable immediately in United States gold coin to the Secretary at the office of the Company.
Any stock upon which said Assessment shall remain unpaid on Saturday, the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 18th day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.
M. G. ELMORE, Secretary.
Office, 645 Clay street, S. F. 19-4t

Segregated Crown Point Mining Company, Gold Hill Mining District, N. T.
Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 13th day of May, 1864, an Assessment of twenty-six dollars per share was levied upon the Capital Stock of said Company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company.
Any stock upon which said Assessment shall remain unpaid on Tuesday, the 14th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 25th day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.
R. N. VAN BRUNT, Secretary.
20-4t Office, 706 Montgomery street, San Francisco.

Oxford Beta Tunnel and Mining Company, Silver Hill, Esmeralda District, N. T.
Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 9th day of May, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on the 10th day of May, 1864, in United States gold coin, to the Secretary, or to Thomas Lytle, Superintendent, at Aurora, N. T.
Any stock upon which said Assessment shall remain unpaid on Saturday, the 11th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 29th day of June, 1864, to pay the delinquent Assessment, together with the costs of advertising and expenses of the sale. By order of the Board of Trustees. GEO. H. PECK, Sec'y.
20-4t Office, Corner of Broadway and Sansome Streets.

Minnehaha Gold and Silver Mining Company, Reese River District, Lander County, Nevada Territory.
Notice is hereby given that at a meeting of the Board of Trustees of said Company held on the 22nd day of March, 1864, an assessment of Twenty-five cents per share was levied upon the Capital Stock, of Said Company, payable in Gold Coin of the United States, to the Secretary, No. 321 Front street, San Francisco, or to SAMUEL DONNELLY, Superintendent of the Company at Austin, N. T. By order of the Board of Trustees. F. M. TRUWORTHY, Secretary.
20-5t* Office, No. 321 Front Street, San Francisco.

Mosquito Quartz Mining Company, Localton, Mosquita Gulch, near Mokelumne Hill, Calaveras County.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of May, 1864, an Assessment $5 per share was levied upon the Capital Stock of said Company payable immediately in United States Gold or Silver Coin, to the Secretary, at the Office of the Company, No. 433 Montgomery St. San Francisco.

Any stock upon which said Assessment shall remain unpaid on SATURDAY, the 11th day of June, 1864 will be advertised on that day, as delinquent, and unless payment shall be made before, will be sold on FRIDAY, the 1st day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale. By order of the Board of Trustees.

EM. FENARD, Secretary.

20-4t Office, 433 Montgomery Street, San Francisco.

Tuolumne Gold and Silver Mining Company, Poindexter Ledge, San Francisco District, Arizona Territory.

Notice is hereby given that at a Meeting of the Board of Trustees of said Company, held on the 10th day of May, 1864, an Assessment of ten cents per share was levied upon the Capital Stock of said Company, payable on the 14th day of May, 1864, in United States Gold and Silver coin, to the Secretary, No. 11, Government House in the City and County of San Francisco.

Any stock upon which said Assessment shall remain unpaid on SATURDAY, the 11th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on WEDNESDAY, the 29th day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. EDW. QUACKENBUSH Sec'y.

Office, No. 11, Government House, corner Sansomo and Washington Streets. 20-4t

Morning Call Silver Mining Company, Wheeler and Rogers Ledge, No. 2, Big Creek District, Lander County, N. T.

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 11th day of May, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on the 14th day of May, 1864, in United States gold and silver coin, to the Secretary, No. 11 Government House in the City and County of San Francisco,

Any stock upon which said Assessment shall remain unpaid on Saturday the 11th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on WEDNESDAY, the 29th day of June, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale. EDW. QRACKENBUSH, Secretary.

Office, No. 11, Government House, cor. Washington and Sansomo Streets, San Francisco. 20-4t

Illinois Gold & Silver Mining Company, Smoky Valley District, Lander county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 2d day of May, 1864, an Assessment of fifty (50) cents per share was levied upon the Capital Stock of said Company, payable on the 7th day of May, 1864, in United States Gold Coin, to the Secretary, or to RALPH BROWN, Superintendent at the Mine.

Any Stock upon which said assessment shall remain unpaid on Saturday the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 18th day of June 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

CEO. C. HARRIMAN, Sec'y.

19-4t Office, 622 Clay Street, San Francisco.

Noonday Copper Gold & Silver Mining Company, Clayton District, Contra Costa County California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 5th day of May 1864, an assessment, No. 5, of 20 cents per share was levied upon the capital stock of said Company, payable immediately, in United States Coin, to the Secretary, at the Office of the Company, corner of Bush and Kearny streets, San Francisco, California.

Any Stock upon which said assessment shall remain unpaid on the 4th day of June next, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold at the Office of Messrs Jerome Rice & Co., No. 327 Montgomery Street, San Francisco, on Wednesday, June 22nd, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of sale. L. E. MORGAN, Sec'y.

19-4t Office, Corner of Bush and Kearny Sts., San Francisco.

Green Monster Copper, Gold and Silver Mining Company, Inyo Mining District, Tulare county, California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 5th day of May, 1864, an Assessment of one dollar per share was levied upon the Capital Stock of said Company, payable immediately, to the Secretary, at his office, No. 23 Montgomery Block, San Francisco.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 22d day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale.

ISAAC N. THORNE, Secretary.

Office, No. 23 Montgomery Block, San Francisco. 19-4t

Itasca Silver Mining Company, Kelly Ledge, Reese River District, Lander county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of May, 1864, an Assessment of forty cents per share was levied upon the Capital Stock of said Company, payable on the 7th day of May, 1864, in United States gold coin, to the Secretary, No. 11, Government House, cor. Sansomo and Washington streets, San Francisco, or to Charles Wray, Superintendent, Austin, Lander county, N. T.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 4th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 22nd day of June, 1864, to pay the delinquent Assessmout, together with costs of advertising and expenses of the sale. EDW. QUACKENBUSH, Secretary.

Office, No. 11 Government House, cor. Sansomo and Washington Streets, San Francisco. 19-4t

Delinquent Sales Advertised on or Before May 21.

Silver Star Gold and Silver Mining Company, Virginia District, Storey county, N. T.

NOTICE.—There is delinquent upon the following described stock, on account of Assessment levied on the 21st day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:—

Names.	No. Certif.	No. Shares.	Amt.
Wm Boyle	1	10	$2 50
Wm Boyle	2	10	2 50
Wm Boyle	5	10	2 50
Wm Boyle	0	10	2 50
Wm Boyle	12	20	5 00
Wm Boyle	23	25	0 25
Wm Boyle	24	25	6 25
Wm Boyle	25	50	12 50
Wm Boyle	26	50	12 50
Wm Boyle	27	50	12 50
Wm Boyle	321	5	1 25
F A Benjamin	243	25	0 25
F A Benjamin	244	25	6 25
Thos Burns	332	5	1 25
E F Boyle	334	10	2 50
D Healey	331	5	1 25
Wm E Hale	320	15	3 75
Mary Cullen	310	10	2 50
Catherine Bolan	320	10	2 50
Catherine Duffey	319	10	2 50
Mary Drew	343	5	1 25
James Gannon	330	10	2 50
Thos Kent	256	10	2 50
F Kramer	329	10	2 50
Thos Lano	254	20	5 00
Louis Levy	328	10	2 50
M Merritt	256	20	5 00
H McCoy	341	10	2 50
Kate McCormick	344	5	1 25
James Nelson	162	25	6 25
James Nelson	163	25	0 25
James Nelson	164	25	6 25
James Nelson	165	25	0 25
James Nelson	166	25	0 25
James Nelson	167	25	6 25
R O'Keefe	262	10	2 50
R Paddock	323	10	2 50
R Paddock	324	5	1 25
Sampson Yams	235	10	2 50
Sampsun Yams	236	10	2 50
Sampsou Yams	237	10	2 50
Sampson Yams	238	10	2 50
Sampson Yams	239	10	2 50
Wm Byler	346	40	10 00
E B Clement	175	5	1 25
E B Clement	176	5	1 25
E B Clement	177	5	1 25
E B Clement	178	5	1 25
E B Clement	179	5	1 25
E B Clement	180	5	1 25
E B Clement	181	5	1 25
E B Clement	182	5	1 25
E B Clement	183	5	1 25
E B Clement	184	5	1 25
E B Clemeut	185	5	1 25
E B Clement	186	5	1 25
E B Clement	187	5	1 25
E B Clement	188	5	1 25
E B Clement	189	5	1 25
E B Clemeat	190	5	1 25
E B Clemeut	191	5	1 25
E B Clement	192	5	1 25
E B Clement	193	5	1 25
E B Clemeut	194	5	1 25
E B Clement	195	5	1 25
E B Clement	190	5	1 25
E B Clemeut	197	5	1 25
E B Clement	198	5	1 25
E B Clement	199	5	1 25
E B Clement	200	5	1 25
E B Clemeat	201	5	1 25
E B Clemeat	202	5	1 25
E B Clement	203	5	1 25
E B Clement	204	5	1 25
E B Clemeat	205	5	1 25
E B Clement	206	5	1 25
E B Clement	207	5	1 25
E B Clement	208	5	1 25
E B Clement	209	5	1 25
E B Clement	210	5	1 25
E B Clement	211	5	1 25
E B Clement	212	5	1 25
E B Clement	213	5	1 25
E B Clemeat	214	5	1 25
Wm H Culver	336	25	6 25
C H Craddock	340	25	6 25
James Feency	318	10	2 50
W V Garvey	247	25	6 25
W V Garvey	249	10	2 50
James J Green	337	10	2 50
James Gallagher	32	10	2 50
James Gallaghor	33	10	2 50
James Gallagher	34	10	2 50
James Gallagher	30	10	2 50
James Gallagher	38	10	2 50
James Gallagher	39	20	5 00
James Gallagher	40	20	5 00
James Gallagher	41	20	5 00
James Gallagher	43	20	5 00
James Gallagher	44	20	5 00
James Gallagher	49	25	6 25
James Gallagher	50	25	0 25
James Gallagher	51	25	6 25
James Gallagher	52	25	6 25
James Gallagher	53	50	12 50
James Gallagher	54	50	12 50
James Gallagher	55	50	12 50
James Gallagher	56	50	12 50
James Gallagher	232	75	18 75
Saml Neal	261	20	5 00
Sol A Sharp	219	25	6 25
Sol A Sharp	222	50	12 50
Sol A Sharp	223	50	12 50
Sol A Sharp	224	50	12 50
Sol A Sharp	225	50	12 50
Sol A Sharp	227	50	12 50
C H Stoutonbaraugh	173	60	15 00
Mrs J E Swift	58	5	1 25
Mrs J E Swift	59	5	1 25
Mrs J E Swift	00	5	1 25
Mrs J E Swift	61	5	1 25
Mrs S E Swift	62	5	1 25
Mrs J E Swift	63	5	1 25
Mrs J E Swift	64	5	1 25
Mrs J E Swift	65	5	1 25
Mrs J E Swift	66	5	1 25
Mrs J E Swift	67	5	1 25
Mrs J E Swift	68	5	1 25
Mrs J E Swift	69	5	1 25
Mrs J E Swift	70	5	1 25
Mrs J E Swift	71	5	1 25
Mrs J E Swift	72	5	1 25
Mrs J E Swift	73	5	1 25
Mrs J E Swift	74	5	1 25
Mrs J E Swift	75	5	1 25
Mrs J E Swift	76	5	1 25
Mrs J E Swift	77	5	1 25
Mrs J E Swift	78	5	1 25
Mrs J E Swift	79	5	1 25
Mrs J E Swift	80	5	1 25
Mrs J E Swift	81	5	1 25
Mrs J E Swift	82	5	1 25
Mrs J E Swift	83	5	1 25
Mrs J E Swift	84	5	1 25
Mrs J E Swift	85	5	1 25
Mrs J E Swift	86	5	1 25
Mrs J E Swift	87	5	1 25
Mrs J E Swift	88	5	1 25
Mrs J E Swift	89	5	1 25
Mrs J E Swift	90	5	1 25
Mrs J E Swift	91	5	1 25
Mrs J E Swift	92	5	1 25
Mrs J E Swift	93	5	1 25
Mrs J E Swift	94	5	1 25
Mrs J E Swift	95	5	1 25
Mrs J E Swift	96	5	1 25
Mrs J E Swift	117	5	1 25
Mrs S E Swift	97	10	2 50
Mrs J E Swift	89	10	2 50
Mrs J E Swift	99	10	2 50
Mrs J E Swift	100	10	2 50
Mrs J E Swift	101	10	2 50
Mrs J E Swift	102	10	2 50
Mrs J E Swift	103	10	2 50
Mrs J E Swift	104	10	2 50
Mrs J E Swift	105	10	2 50
Mrs J E Swift	106	10	2 50
Mrs J E Swift	107	10	2 50
Mrs J E Swift	108	10	2 50
Mrs J E Swift	109	10	2 50
Mrs J E Swift	110	10	2 50
Mrs J E Swift	111	10	2 50
Mrs J E Swift	112	10	2 50
Mrs J E Swift	113	10	2 50
Mrs J E Swift	114	10	2 50
Mrs J E Swift	115	10	2 50
Mrs J E Swift	116	10	2 50
C R Thorne	335	10	2 50
C A Uhrig	253	25	6 25
Thos N Wand	159	50	12 50
Thos N Wand	160	50	12 50
Thos N Wand	161	50	12 50

And in accordance with law, and an order of the Board of Trustees, made on this 21st day of April, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the office of the Company, on the 8th day of June, 1864, at the hour of, 12 o'clock, M., of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of sale.

WM. E. MOODY, Secretary.

21-2t Office, No. 706, Montgomery street, San Francisco.

Great Central Mining Company, Weaver District, Arizona Territory.

Notice is hereby given, that there are delinquent upon the following described stock, on account of Assessment No. Two (2), levied Oct. 21st, 1863; Assessment No. Three (3), levied Dec. 26th, 1863; and Assessment No. Four (4), levied Feb. 12th, 1864, the several amounts set opposite the names of the respective shareholders, as follows:—

Name.	No. Cert.	No. Asst.	No. Shares.	Amt.
Battles, W W	65	2, 3 aad 4	50	$37 50
Battles, W W	68	2, 3 and 4	25	18 75
Gerry, S R	67	3 and 4	25	12 50
Lawlor, Jos	129	3 and 4	20	10 00
Morrill Bros	135	3 and 4	50	25 00
Mullen, W E	26	4	10	2 50
Nagle, Geo D	66	4	100	25 00
O'Brien, W	87	4	25	6 25
O'Brien, W	89	4	15	3 75
O'Brien, W	90	4	10	2 50
Rockwell, E A	114	2, 3 and 4	20	15 00
Rockwell, E A	115	2, 3 and 4	10	7 50
Rockwell, E A	116	2, 3 and 4	10	7 50
Rockwell, E A	117	2, 3 and 4	10	7 50
Seibel, Fred	83	4	25	6 25
Seibel, Fred	84	4	25	0 25
Seibel, Fred	85	4	15	3 75
Warfield, Alex	not yet issued.	3 and 4	100	50 00
Wigmore, John	59	2, 3 and 4	30	22 50

And in accordance with the laws of the State of California, and an order of the Trustees, made on the 28th day of March, 1864, as many shares of each parcel of said stock as may be necessary, will be sold, at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on WEDNESDAY, the 8th day of June, A. D. 1864, to pay said delinquent assessment thereon, together with the costs of advertising and the expenses of sale. RICHARD S. CLARK, Secretary.

19-5t Office No. 510 Merchant street, San Francisco.

Gobernadora Silver Mining Company, San Antonio District, Lower California.—Office, 625 Clay street, San Francisco, California.

Notice is hereby given, that in accordance with an order duly made by the Board of Trustees of the Gobernadora Silver Mining Company, there will be sold, at Public Auction, by Jerome Rice & Co., Auctioneers, at their salesroom, No. 327 Montgomery street, San Francisco, on MONDAY, May 30th, 1864, between the hours of 11 A M. and 2 P. M. of that day, to the highest bidder for cash, in United States coin, so many shares of the capital stock of said Company, standing in the names of the hereinafter mentioned stockholders as will be necessary to pay all assessments now due thereon, together with cost of advertising and all accruing charges, unless the same be previously paid:

Names.	No. Shs.	Amt due	Names.	No. Shs.	Amt due.
John Brazer	130	$78 00	W. H. Knapp	105	$63 00
William Foss	5	3 00	H. Kilham	50	30 00
B. F. French	10	6 00	Chas. McDonald	20	12 00
N. E. Grimes	10	6 00	Thos. McDonough	5	3 00
Wm. Hazeltine	18	10 80	Chas. F. Nottle	20	12 00
A. H. Jordan	50	30 00	J. W. Sprague	120	72 00
R. A. Sanford	3	1 80			

By order of the Board of Trustees.

18-5t C. W. HAYDEN, Secretary.

Lost.

Certificates Nos. 433 & 49 of the Great Consolidated Boise River G. & S. M. Co., of five shares each, standing in the name of J. W Reed. All persons are hereby cautioned against purchasing the same as their transfer has been stopped on the books of the company. J. W. REED.

San Francisco, May 4th, 1864. 19-4t

Rubicon Gold and Silver Mining Company, No. 3. Location of mine, Keys District, Owens' River, Mono county, California.

Notice is hereby given, that in accordance with the laws of California, and an order duly made by the Board of Trustees of the Rubicon Gold and Silver Mining Company, No. 3, there will be sold, at public auction, to the highest bidder, for cash, in United States gold coin, on the 14th day of June, 1864, at 11 o' clock A. M., of that day, at the office of the Company, No. 7 & 8 third floor, No. 302 Montgomery street, San Francisco, so many shares of the Capital Stock of the Company, standing in the names of the following persons, or shareholders, as will be necessary for the payment of assessment No. 4, of ten (10) cents per share, duly levied thereon February 27th, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said assessment and accruing charges are previously paid.

Names.	No. Asst.	Certif.	Shares.	Due.
Adam Bland	4	no cer	150	balance, $9 38
Henry Bush	4	no cer	150	15 00
Sarah Cook	4	38	25	balance, 1 56
Sarah Cook	4	no cer	125	balance, 7 81
Wm. P. Carter	4	no cer	75	7 50
W. G. Davis	4	426	50	5 00
W. G. Davis	4	509	55	5 50
W. G. Davis	4	537	25	2 50
W. G. Davis	4	638	25	2 50
W. G. Davis	4	630	25	2 50
W. G. Davis	4	631	25	2 50
W. G. Davis	4	632	25	2 50
W. G. Davis	4	633	25	2 50
W. G. Davis	4	634	25	2 50
W. G. Davis	4	720	12	1 20
W. G. Davis	4	no cer	33	3 30
Philo Doud	4	no cer	132	balance, 12 21
Wesley Diggins	4	no cer	1400	140 00
Wesley Diggins	4	757	100	10 00
A. M. Genung	4	no cer	150	balaude, 9 37
John Jeffress	4	229	15	balance, 93
John Jeffress	4	256	6	balance, 37
John Jeffress	4	257	6	balance, 37
John Jeffress	4	258	12	balance, 75
John Jeffress	4	no cer	93	balance, 5 81
Wm. L. Kirby	4	325	50	balance, 3 13
Wm. L. Kirby	4	327	25	balance, 1 56
Wm. L. Kirby	4	no cer	85	balance, 2 15
John Kneedler	4	259	12	balance, 75
John Kneedler	4	261	50	balance, 3 13
John Kneedler	4	358	5	balance, 31
John Kneedler	4	no cer	58	balance, 3 62
M. H. Kimball	4	no cer	42	4 20
A. J. Lovejoy	4	83	25	1 56
A. J. Lovejoy	4	275	12	75
Levi C. Lane	4	14	100	balance, 6 25
Levi C. Lane	4	15	25	balance, 1 56
Wheeler Martin	4	4	25	balance, 1 56
Wheeler Martin	4	35	30	balance, 1 87
Wheeler Martin	4	40	30	balance, 1 87
Wheeler Martin	4	41	30	balance, 1 87
Wheeler Martin	4	no cer	675	balance, 42 18
D. H. Mitchell	4	331	6	balance, 46
D. H. Mitchell	4	333	25	balance, 2 31
D. H. Mitchell	4	449	12	balance, 1 11
D. H. Mitchell	4	450	12	balance, 1 11
D. H. Mitchell	4	462	10	balance, 93
D. H. Mitchell	4	464	12	balance, 1 11
J. W. Myrick	4	no cer	150	15 00
M. M. Miller	4	611	150	15 00
Jas. O'Connell	4	271	50	balance, 3 12
Jas. O'Connell	4	272	50	balance, 3 12
Jas. O'Connell	4	273	25	balance, 1 56
Jas. O'Connell	4	274	25	balance, 1 56
Thos. H. Porter	4	188	50	balance, 5 63
Thos. H. Porter	4	no cer	105	balance, 6 56
I. Richards	4	434	75	balance, 3 75
John Reynolds	4	no cer	450	45 00
Wm. Smith	4	218	25	balance, 1 56
Wm. Smith	4	219	25	balance, 1 56
Wm. Smith	4	220	25	balance, 1 56
Wm. Smith	4	221	25	balance, 1 56
Wm. Smith	4	222	25	balance, 1 56
Wm. Smith	4	223	25	balance, 1 56
O. W. Spencer	4	549	75	7 50
O. W. Spencer	4	655	18	1 80
O. W. Spencer	4	no cer	1357	135 70
F. Shoemaker	4	no cer	73	7 30
Jos. Ware	4	507	6	balance, 37
Jos. Ware	4	594	12	balance, 75
Jos. Ware	4	595	12	balance, 95
Jos. Ware	4	749	25	balance, 1 56
Jos. Ware	4	no cer	129	balance, 8 06

By order of the Board of Trustees.

J. P. VAN HAGAN, Secretary.

Office, No. 302 Montgomery street, No. 7 and 8, 3d floor.

San Francisco, May 12th, 1864. 20-4t

Kelsey Gold and Silver Mining Company, El Dorado County, Cal. Office, No. 605 Sacramento street, San Francisco, May 13th, 1864.

Notice is hereby given, that in accordance with the laws of the State of California, the By-laws of the Kelsey G. & S. M. Co., and the order of the Board of Trustees this day duly made and entered, there will be sold, at public auction, on Monday, June 13th, 1864 at, 11 o'clock, A. M., by Messrs. Cobb & Sinton, at their auction rooms, No. 406 Montgomery street, in the city of San Francisco, so much of the Capital Stock of said Company, standing in the names of the following persons as may be necessary to pay all Assessments now due by said parties, together with the expenses of advertising and sale, unless the same shall have been previously paid.

No. of Cert's.	Names.	No. Sh's.	No. Ass't.	Am't.
78, 79, 80, 81, 82	A Fulk	90	5 & 6	$22 50
39, 90, 92 to 105	Noble Lovely	275	5 & 6	68 75
407, 138, 139, 140, 141	F Wolfe	265	6	39 75
180	Sophia Steiger	25	5 & 6	6 25
191, 193, 194, 195, 425, 427	Ole Bergson	175	6	25 25
321	C H Taft	75	5	11 25
219	Joseph Whittle	10	6	1 50
233, 4, 5, 7, 8, 9, 240, 1, 2, 3, 4, 5, 6, 7 9, 250, 438, 439	John L Yates Jr	330	6	49 50
195, 7, 8, 9, 200, 3, 4, 5, 8, 9, 12	A E Shannon	240	6	36 00
303	C H Killey	20	6	3 00
304	B Slocumb	5	6	75
306	Lehman Blum	5	5 & 6	1 25
308	E Maitre	25	5	3 75
309	Gustave Ismel	10	5 & 6	2 50
310	E Cleaves	10	5 & 6	2 50
315	F W Bach	5	5 & 6	1 25
317	John Ducker	60	6	9 00
324	C P Williams	100	6	15 00
327, 339, 357, 364	John C Hall	65	6	9 75
328	Alice Moore	5	5 & 6	1 25
348	J Ford	20	5 & 6	5 00
264	Jnne James	10	6	1 50
399	Audrew Wilson	15	6	2 25
405	Mrs Susan Sweetzer	10	6	1 50
420, 421	E Worth	50	6	7 50
435	Henry E Brooks	10	6	1 50
311	W Van Housen	5	6	75
164	W A Frey	10	6	1 50
273, 276, 280, 284	B F Butler	85	5	12 75
285, 286, 287, 288	R D Scofield	17	5 & 6	4 25
22, 145	C J West	15	4, 5 & 5	5 25
Not issued	A de Casfilla	40	4, 5 & 6	14 00
294, 297				

By order of the Board of Trustees.

20-4t S. C. GARDNER, Secretary.

Rubicon Gold and Silver Mining Company, No. 4. Location of Mine, Keys District, Owens' River, Mono county, California.

Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Rubicon Gold and Silver Mining Company, No. 4, there will be sold at public auction, to the highest bidder, for cash, in United States gold coin, on the 14th day of June, 1864, at 11 o'clock, A. M., of that day, at the office of the Company, No. 7 & 8 third floor, No. 302 Montgomery street, San Francisco, so many shares of the Capital Stock of the Company, standing in the names of the following persons or shareholders, as will be necessary for the payment of Assessment No. 4, of ten (10) cents per share, duly levied thereon February 27th, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said Assessment and accruing charges are previously paid.

Names.	No. Asst.	Certif.	Shares.	Due.
Adam Bland	4	no cer	150	balance, $9 38
Henry Bush	4	no cer	150	15 00
Sarah Cook	4	38	25	balance, 1 56
Sarah Cook	4	no cer	125	balance, 7 81
W. P. Carter	4	no cer	75	7 50
Philo Doud	4	no cer	132	balance, 12 21
Wesley Diggins	4	no cer	1400	140 00
Wesley Diggins	4	726	100	10 00
W. G. Davis	4	485	55	5 50
W. G. Davis	4	598	25	2 50
W. G. Davis	4	602	25	2 50
W. G. Davis	4	603	25	2 50
W. G. Davis	4	604	25	2 50
W. G. Davis	4	605	25	2 50
W. G. Davis	4	606	25	2 50
W. G. Davis	4	591	12	1 20
W. G. Davis	4	no cer	33	3 30
A. M. Genung	4	no cer	150	balance, 9 37
John Jeffress	4	206	15	balance, 93
John Jeffress	4	292	6	balance, 37
John Jeffress	4	293	6	balance, 37
John Jeffress	4	234	12	balance, 75
John Jeffress	4	no cer	93	balance, 5 81
W. L. Kirby	4	306	25	balance, 1 56
W. L. Kirby	4	no cer	85	balance, 5 31
John Kneedler	4	256	14	balance, 88
John Kneedler	4	237	50	balance, 3 13
John Kneedler	4	332	5	balance, 31
John Kneedler	4	no cer	56	balance, 3 50
M. H. Kimball	4	no cer	42	4 20
Levi C. Lane	4	14	100	balance, 6 25
Levi C. Lane	4	15	25	balance, 1 56
A. J. Lovejoy	4	61	25	balance, 1 56
A. J. Lovejoy	4	252	12	balance, 75
Wheeler Martin	4	35	15	balance, 94
Wheeler Martin	4	39	20	balance, 1 25
Wheeler Martin	4	40	20	balance, 1 25
Wheeler Martin	4	no cer	675	balance, 42 18
D. H. Mitchell	4	419	12	balance, 1 11
D. H. Mitchell	4	420	12	balance, 1 11
D. H. Mitchell	4	432	10	balance, 92
D. H. Mitchell	4	436	12	balance, 1 11
D. H. Mitchell	4	489	25	balance, 2 31
M. M. Miller	4	531	150	15 00
J. W. Myrick	4	no cer	150	15 00
Jas. O'Connell	4	247	50	balance, 3 12
Jas. O'Connell	4	248	50	balance, 3 12
Jas. O'Connell	4	249	25	balance, 1 56
Jas. O'Connell	4	250	25	balance, 1 56
Thos. H. Porter	4	162	10	balance, 63
Thos. H. Porter	4	no cer	105	balance, 6 56
I. Richards	4	406	75	balance, 3 75
John Reynolds	4	no cer	450	45 00
Wm. Smith	4	193	25	balance, 1 56
Wm. Smith	4	194	25	balance, 1 56
Wm. Smith	4	195	25	balance, 1 56
Wm. Smith	4	196	25	balance, 1 56
Wm. Smith	4	197	25	balance, 1 56
Wm. Smith	4	198	25	balance, 1 56
O. W. Spencer	4	624	75	7 50
O. W. Spencer	4	615	50	5 00
O. W. Spencer	4	626	18	1 80
O. W. Spencer	4	no cer	1357	135 70
F. Shoemaker	4	no cer	73	7 30
Jos. Ware	4	577	5	balance, 31
Jos. Ware	4	602	12	balance, 75
Jos. Ware	4	603	12	balance, 75
Jos. Ware	4	719	25	balance, 1 56
Jos. Ware	4	no cer	129	balance, 8 06

By order of the Board of Trustees.

J. P. VAN HAGAN, Secretary.

Office, No. 302 Montgomery street, No. 7 & 8 33, floor.

San Francisco, May 12th, 1864. 20-4t

Wm. Mitchel Gold and Silver Mining Company, Silver Monhtain, Amador county, California.

NOTICE.—There is delinquent upon the following described stock, on account of Assessments levied on the 16th day of February and the 29th day of March, 1864, the several amounts set opposite the names of the respective shareholders, as follows, to wit:

Names.	No. Certif.	No. Shares	Amt.
John L Bowen	34	6	$5 00
S. C. Blake	53	15	15 00
S. C. Blake	55	5	5 00
Phillip Brady	61	5	5 00
N. Castle	56	10	10 00
N. Castle	97	5	5 00
W. Hollis	78	10	10 00
Henry Kline	99	10	10 00
Mrs. Julia Kenney	50	5	2 50
P. McGee	66	5	5 00
W. J. Moss	63	5	5 00
Wm. Walsh	95	25	25 00
Mrs. M. Wise	33	20	20 00

And in accordance with law, and an order of the Board of Trustees, made on the 4th day of May, inst. so many shares of each parcel of said stock as may be necessary, will be sold at the office of the Secretary, on Wednesday, the 15th day of June, 1864. at 12 o'clock, M., to pay said delinquent Assessments thereon, together with costs of advertising and expenses of the sale.

A. G. WOOD, Secretary.

20-4t 240 Montgomery street, No. 4, 2d floor.

Tornado Gold and Silver Mining Company, Colorado District, El Dorado Canou, Territory of Arizona. Office 520 Washington street, San Francisco.

Notice is hereby given, that, in accordance with the laws of the State of California, and in pursuance of an order of the Board of Trustees of the Tornado Gold and Silver Mining Company, duly made May 4th, A. D. 1864, there will be sold, at Auction, at the office of said Company, on June 13th, 1864, at 12 o'clock M. to the highest bidder, for cash, in U. S. coin, so many shares of the capital stock of this Company, standing in the names of the following parties, as may be necessary to pay Assessments No. 1 and 2, of fifty (50) cents each, and levied by the Board of Trustees, December 14th, 1863, and February 17th, 1864, and also balances and other dues, as specified herewith, together with all charges accruing from advertising and sale, unless all such dues are previously paid to the Secretary.

Names.	No. Certs.	No. Shares.	Amt.
H R Covey	6	25	$25 00
H R Covey	7	25	25 00
H R Covey	8	25	25 00
H R Covey	9	25	25 00
H R Covey	10	25	25 00
H R Covey	11	25	25 00
H R Covey	12	25	25 00
H R Covey	13	25	25 00
P J Gifford	not Issued	200	200 00
C Hamilton	Amt due on 238		144 00

20-4t RODNEY CLARK, Secretary.

Royal Eagle and Cliff Gold and Silver Mining Company, Gold Hill Mining District, Storey county, Nevada Territory. —Office No. 493 Washington street, San Francisco.

Notice is hereby given, that, in accordance with an order duly made by the Board of Trustees of the Royal Eagle and Cliff Gold and Silver Mining Company, there will be sold, at Public Auction, by Jerome Rice & Co., at their salesrooms, No. 327 Montgomery street, San Francisco, on WEDNESDAY, June 15, 1864, at 12 o'clock M. to the highest bidder, for cash, in U. S. gold coin, so many shares of the capital stock of the said Company, standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay all assessments now delinquent thereon, together with cost of advertising and all accruing charges, unless previously paid:

Stockholders.	No. Asst.	No. Certificate.	Shares.	Amt.
Cesar Roch	3 and 4	10, 12, 16, 17	30	$45 00
A. Levy	3 and 4	8	5	7 50
L. Levy	3 and 4	23	5	7 50
C. Kornfield	3 and 4	96, 199	33	49 50
P. E. P. Davau	3 and 4	181, 182, 189, 190, 191	103	154 50
Piere Thiebaut	4	3t, 33, 34, 118	30½	31 00
C. Mery	4	39, 126, 148	18	18 00
Dominique Contin	4	40, 112	12	12 00
Champel Resi	4	41, 94, 95, 138	30	30 00
F. X. Vilin	3 and 4	111, 112, 113	15	22 50
Maric Courier	3 and 4	44	10	15 00
J. Lamolle	4	52	15	15 00
B. Lamollo	4	53	12	12 00
E. Ward	2, 3 and 4	54	5	12 50
J. Mayer	4	55	15	15 00
A. Carre	4	57, 140	15	13 00
Rene Courdon	3 and 4	62, 63	50	75 00
Alexis Leroux	3 and 4	68	5	7 50
John Delbo	3 and 4	76	25	37 50
A. Reiso	4	80	25	25 00
H. Haricourt	3 and 4	84	8	12 00
Cordes Bertrand	3 and 4	85	17	25 50
Wm. Remy	3 and 4	101, 102	25	37 50
H. Bone	3 and 4	—	7	10 50
J. Larisilli	4	119	25	25 00
H. Van Every	3 and 4	139	20	30 00
J. Filliot	2, 3 and 4	—	5	12 50
J. H. Vievier	3 and 4	—	22	33 00
A. Gatticker	3 and 4	—	25	37 50
A. Secretan	3 and 4	—	5	7 50
L. Noel	3 and 4	—	100	150 00
J. Carroll	2, 3 and 4	194	10	25 00
C. Duval	3 and 4	193	25	37 50
J. Austine	1, 2, 3 and 4	—	25	135 00
Victor Ansous	3 and 4	185	10	15 00
Caroline Petetin	2, 3 and 4	110	10	25 00
Alfred Turrel	3 and 4	140	10	15 00
Marie V. Houreade	3 and 4	142	5	7 50
Caroline Ooux	3 and 4	143, 168	8	12 00
P. J. Minot	3 and 4	144, 167	12	18 00
Napoleon Denis	4	155	10	10 00
Cazoax & Collins	3 and 4	164	5	7 50
C. Aguilar	3 and 4	152	15	22 50
J. P. Cassady	4	162	10	10 00
L. M. Onfray	3 and 4	170	5	7 50
J. Mandot	3 and 4	183	25	37 50
D. Bigarel	4	186	10	10 00
John Dalmas	4	184	25	25 00
F. Roncal	3 and 4	195	15	22 50
M. Burnet	3 and 4	196	10	15 00
Th. Thiele	3 and 4	200	20	30 00
W. R. Mauriee	3 and 4	201	15	22 50

By order of the Board of Trustees.

20-5t ARNAVON, Secretary.

San Francisco, May 14th, 1864.

Palmyra Consolidated Gold and Silver Mining Company, Palmyra District, Lyon county, N. T.—Office 625 Clay street, San Francisco, California.

Notice is hereby given, that, in accordance with an order duly made by the Board of Trustees of the above named Company, there will be sold, at Public Auction, at the office of the Company, on MONDAY, the 13th day of June, 1864, at 12 o'clock M., to the highest bidder, for cash, payable in United States coin, so many shares of the capital stock of said Company, standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay the assessment now due thereon, together with cost of advertising and all accruing charges, unless the same be previously paid:

Names.	No. Shs.	Amt.	Names.	No. Shs.	Amt.
O A Briar	500	$125 00	H H Lhvill	10	$2 50
Sarah A Broder	10	2 50	N O Mitchell	25	6 25
J W Belden	25	6 25	John C Morrill	25	5 25
Charles Cook	5	1 25	N Nason	119	29 75
J Casper	10	2 50	H J Pluno	50	12 50
George Corran	590	147 5	A C Power	5	1 25
J H Dupalx	5	1 25	George W Swain	10	2 50
Julius Ehrenburg	10	2 50	A Staples	25	5 25
P Feehan	10	2 50	J Silversmith	10	2 50
H B Griffin	5	1 25	E U Sparkett	10	2 50
L D Gavitt	30	7 50	T A Talbert	400	100 00
H M Goodman	50	12 50	A A Van Voorhis	5	1 25
E W Harrison	5	1 25	R J Van Voorhis	5	1 25
Charles Hadsell	100	25 00	M Zejarkowsky	10	2 50
M J Henly	25	6 25	L Whipple	200	50 00
Charles Hirsfold	5	1 25	S Wood	345	86 25
J Humphreys	295	73 75	W Wadsworth	50	12 50
D Kendrick	135	33 75	B C Whitman	100	25 00
A Konitzke	5	1 25	John T Welcher	500	125 00
James Kennedy	25	6 25	W Langerman	550	137 50

By order of the Board of Trustees.

20-5t C. W. HAYDEN, Secretary.

Ophir of the Colorado No. 1 Gold and Silver Mining Company.—Office No. 520 Washington street, San Francisco.

NOTICE.—There is delinquent upon the following described stock, on account of assessments levied on the 20th day of August, 1863, of thirty (30) cents per share, on each and every share of the capital stock of said Company, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certs.	No. Shares.	Amt.
Charles Hamilton	54	200	$60 00
Charles Hamilton	55	50	15 00
Charles Hamilton	56	20	6 00
Charles Hamilton	57	20	6 00
Charles Hamilton	59	20	6 00
Charles Hamilton	60	20	6 00
Charles Hamilton	61	10	3 00
Charles Hamilton	62	10	3 00
Charles Hamilton	63	10	3 00
Charles Hamilton	64	10	3 00
Charles Hamilton	65	10	3 00
		380	$114 00

And in accordance with law, and an order of the Board of Trustees, made on the 7th inst., so many shares of said stock as may be necessary, will be sold, at Public Auction, at the office of the Company, June 11th, A. D. 1864, at the hour of 12 o'clock M., to pay said delinquent assessments thereon, together with cost of advertising and expenses of sale, unless sooner paid. Location of claim, Colorado District, El Dorado Canon, Territory of Arizona.

RODNEY CLARK, Secretary.

San Francisco, May 7th, 1864. 20-4t

NOTICE.

Is hereby given that from and after June 15th, 1864, the Office and principal place of business of the Emmett Copper Mining Company, will be removed from San Francisco to Copperopolis, Calaveras County. San Francisco, May 14th, 1864.

M. G. ELMORE, Secretary.

20 Office, 645 Clay Street.

Rubicon Gold and Silver Mining Company, No 2, Location of Mine, Keys District, Owens' River, Mono County, California.

Notice is hereby given, that in accordance with the laws of the State of California, and in order duly made by the Board of Trustees of the Rubicon Gold & Silver Mining Company, No. 2, there will be sold, at public auction, to the highest bidder, for cash in United States Gold Coin, on the 7th day of June, 1864, at 11 o'clock, A. M., of that day, at the office of the Company, No. 7 & 8 third floor, No. 302 Montgomery street, San Francisco, so many shares of the capital stock of the Company, standing in the names of the following persons or shareholders, as will be necessary for the payment of assessment No. 4 of ten (10) cents per share, duly levied thereon February 27th, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said assessment and accruing charges are previously paid.

Names.	No. Asst.	Certif.	Shares.	Am't Due.
Bland Adam	4	no cer	150	balance, $9 38
Bush Henry	4	no cer	150	15 00
Cook Sarah	4	no cer	125	balance, 6 11
Carter W P	4	no cer	75	7 50
Davis W G	4	493	55	5 50
Davis W G	4	604	25	2 50
Davis W G	4	605	25	2 50
Davis W G	4	606	25	2 50
Davis W G	4	607	25	2 50
Davis W G	4	608	25	2 50
Davis W G	4	609	25	2 50
Davis W G	4	602	12	1 20
Davis W G	4	no cer	28	2 80
Dool Pablo	4	no cer	131	12 12
Diggins Wesley	4		1500	150 00
Gosney A M	4	no cer	150	balance, 0 37
Jeffress John	4	210	15	balance, 93
Jeffress John	4	242	0	balance, 37
Jeffress John	4	243	0	balance, 37
Jeffress John	4	244	12	balance, 75
Jeffress John	4	no cer	93	balance, 5 81
Kirby W L	4	315	50	balance, 3 13
Kirby, W L	4	310	25	balance, 1 56
Kirby, W L	4	no cer	35	balance, 2 15
Kuecsiler, John	4	246	12	balance, 75
Kuecdler, John	4	247	50	balaoee, 3 13
Kuecdler, John	4	346	5	balance, 31
Kuecdler, John	4	no cer	58	balance, 3 62
Kimball, M H	4	no cer	75	balance, 2 50
Lovejoy, A J	4	71	25	balance, 1 56
Lovejoy, A J	4	262	12	balance, 75
Lang, Levi C	4	14	100	balance, 6 25
Lane, Levi C	4	15	25	balance, 1 56
Wheeler, Martin	4	5	25	balance, 1 56
Wheeler, Martin	4	35	30	balance, 1 87
Wheeler, Martin	4	40	25	balance, 1 50
Wheeler, Martin	4	41	25	balance, 1 50
Wheeler, Martin	4	no cer	675	42 16
Mitchell, D H	4	426	25	balance, 2 31
Mitchell, D H	4	430	12	balance 1 11
Mitchell, D H	4	437	12	balance, 1 11
Mitchell, D H	4	444	10	balance, 92
Mitchell, D H	4	447	12	balance, 1 11
Mitchell, D H	4	497	25	balance, 2 31
Myrick, J W	4	no cer	150	15 00
Miller, S M	4	587	150	15 00
O'Connell, James	4	257	50	balance, 3 12
O'Connell, James	4	258	50	balance, 3 12
O'Connell, James	4	259	25	balance, 1 50
O'Connell, James	4	260	25	balance, 1 56
Porter, Thos H	4	173	10	balance, 62
Porter, Thos H	4	no cer	105	0 50
Reynolds, Jno	4	no cer	450	45 00
Richards, I	4	423	80	balance, 4 20
Smith, Wm	4	201	25	balance, 1 56
Smith, Wm	4	202	25	balauce, 1 56
Smith, Wm	4	203	25	balaoee, 1 56
Smith, Wm	4	204	25	balance, 1 56
Smith, Wm	4	205	25	balance, 1 56
Smith, Wm	4	206	25	balance, 1 56
Spencer, O W	4	618	50	5 00
Spencer, O W	4	630	18	1 80
Spencer, O W	4	no cer	1357	135 70
Shoemaker, F	4	721	4	40
Shoemaker, F	4	725	65	6 50
Ware, Jos	4	663	12	balance, 75
Ware, Jos	4	669	12	balance, 75
Ware, Jos	4	718	25	balance, 1 50
Ware, Jos	4	no cer	120	balance, 8 06

By order of the Board of Trustees.

J. P. VAN HAGAN, Secretary.

Office No. 302 Montgomery street, No. 7 and 8; third floor.

San Francisco, May 5th, 1864. 19-4t

Logan Gold and Silver Mining Company, Office, No. 523 Clay street, San Francisco, Cal. April 29th, 1864.

Notice is hereby given that in accordance with an order duly made by the board of Trustees of the Logan Gold and Silver Mining Company, there will be sold at public auction, by Jerome Rice & Co., at their salesroom, No. 327 Montgomery street, San Francisco, on Wednesday, June 8th, 1864, at 12 o'clock, M. to the highest bidder for cash, in Cold Coin, so many shares of the capital stock of the said company, standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay all assessments, now delinquent thereon, together with costs of advertising and all accruing charges, unless previously paid.

Names.	No. Shares.	No. Certif.	Asst's.	Am't due
Evan R. Evans	25	4	2nd	$25 00
Ellen A Spoor	10	15	2nd	10 00
R. McMurray	70	33	2nd bal	51 00
E. S. Roberts	100	36, 121 to 124	2nd	100 00
Watkins Price	46	138	2nd	46 00
Thomas Waters	71	139	2nd	71 00
R. W. Myers	9	78, 97, 108	2nd	9 00
John C. Hay	10	89	2nd	10 00
John Jones	108	110, 113, 114	2nd	108 00
D. Temple	7	111	2nd	7 00

By order of the Board of Trustees.

B. W. MUDGE, Sec'y.

19-5t

Walipi Gold and Silver Mining Company, Moss Lode, San Francisco District, Arizona Territory.

There is delinquent upon the following described stock, on account of assessments levied on the 21st day of March, 1864, the several amounts set opposite the names of the respective shareholders as follows:

Names.	Certifs.	Shares.	Amount
C. H. Dorlot	17, 18, 19, 20, 21, 22, 23, 24	200	$100 00
E. Y. Mason	3, 4, 5, 6, 7, 8, 38, 39, 40	175	87 50
Wm. P. Pool	34, 36	10	5 00

And in accordance with law, and an order of the Board of Trustees made on the 21st day of April 1864, so many shares of each parcel of said stock as may be necessary will be sold at the salesroom of John Middleton & Son, No. 400 Montgomery street, San Francisco, on Saturday, June 11th, 1864, at 12 o'clock, M., of said day to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

W. AUGUSTUS KNAPP, Sec'y.

19-5t 620 Washington street, Room, 3.

Henry & Barnard Consolidated Gold, Silver and Copper Mining Company, Weaver District, Arizona Territory.

Notice.—There are delinquent, upon the following described stock, on account of Assessment levied on the ninth (9) day of March, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shares.	Amt.
S P Taylor,	194	2	50
S P Taylor,	195	2	50
S P Taylor,	196	2	50
S P Taylor,	197	2	50
S P Taylor,	198	2	50
S P Taylor,	201	2	50
S P Taylor,	212	2	50
S P Taylor,	213	2	50
S P Taylor,	215	2	50
S P Taylor,	216	2	50
S P Taylor,	219	2	50
S P Taylor,	222	2-5	10
S P Taylor,	300	5	$1 25
S P Taylor,	305	10	2 50
S P Taylor,	306	10	2 50
S P Taylor,	307	10	2 50
S P Taylor,	308	10	2 50
S P Taylor,	312	10	2 50
S P Taylor,	313	10	2 50
S P Taylor,	315	5	1 25
S P Taylor,	310	5	1 25
S P Taylor,	317	5	1 25
S P Taylor,	318	5	1 25
S P Taylor,	319	5	1 25
S P Taylor,	320	5	1 25
S P Taylor,	321	5	1 25
S P Taylor,	323	5	1 25
S P Taylor,	324	5	1 25
S P Taylor,	325	5	1 25
S P Taylor,	326	25	6 25
S P Taylor,	329	25	6 25
Wallace Everson,	00	10	2 50
Wallace Everson,	04	100	25 00
Wallace Everson,	07	5 1-5	1 30
John Landers,	101	50	12 50
John Landers,	102	50	12 50
John Landers,	103	10	2 50
John Landers,	104	20	5 00
John Landers,	100	5	1 25
John Landers,	107	15 1 5	3 80
Geo W Barnard,	22	20 4-5	5 20
Geo Bridges,	421	2	50
Geo Roland,	411	2	50

And in accordance with law, and an order of tha Board of Trustees, made on the 23d day of April, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on the first (1) day of June, 1864, at 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

GEO. W. GILDERSLEEVE, Secretary.

19-4t Office 334 Montgomery street, San Francisco.

Noble Grand Mining Company, Inyo District, Tulare county, California.

Notice.—There is delinquent upon the following described stock on account of assessment levied on the 8th day of April, 1864, tha several amounts set opposite the names of the respective shareholders, as follows:

Name.	No. Cert.	No. Shares.	Amt.
John F Ellis	36	10	$2 50
John F Ellis	37	10	2 50
John F Ellis	38	10	2 50
John F Ellis	39	10	2 50
John F Ellis	40	10	2 50
John F Ellis	41	10	2 50
John F Ellis	42	10	2 50
John F Ellis	43	10	2 50
John F Ellis	44	10	2 50
John F Ellis	45	10	2 50
John F Ellis	46	5	1 25
John F Ellis	47	5	1 25
John F Ellis	48	5	1 25
John F Ellis	49	5	1 25
John F Ellis	51	5	1 25
John F Ellis	52	5	1 25
John F Ellis	53	5	1 25
John F Ellis	54	4	1 00
Mrs S S P Eastman	127	5	1 25
G D German	132	4	1 00
John Kelsey	124	100	25 00
John Kelsey	125	41	10 25
Frank W Shattuck	55	10	2 50
Frank W Shattuck	63	10	2 50
Frank W Shattuck	67	5	1 25
Frank W Shattuck	68	5	1 25
Frank W Shattuck	71	5	1 25
Frank W Shattuck	74	5	1 25
Frank W Shattuck	75	5	1 25
Frank W Shattuck	76	5	1 25

And in accordance with law, and an order of the Board of Trustees, made on the 8th day of April, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the office of the Secretary, on the 24th day of May inst., at 12 o'clock, M., of said day, to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

A. G. WOOD, Secretary.

20-2t 240 Montgomery street, No. 4, 2d floor, San Francisco.

Mount Eden Mining Company, Owen Lode, Gold Hill District, N. T.

Notice, There are delinquent, upon the following described Stock on account of assessment heretofore levied, the several amounts set opposite the names of the respective Shareholders, as follows:

Names.	No. Assts.	No. Cert.	No. Shs.	Amt.
*Bonestell, L. H.	1 and 2	59	20	$30 00
*Bonestell, L. H.	1 and 2	60	10	15 00
Barker, S.	1 and 2	28	10	15 00
Barker, S.	1 and 2	29	10	15 00
Barker, S.	1 and 2	30	5	7 50
Brewer, F. A.	1 and 2	93	5	7 50
*Congdon, H. B.	1 and 2	91	10	15 00
*Congdon, H. B.	1 and 2	82	5	7 50
McKinaly, Henry	2	42	10	5 00
McKinaly, Henry	2	43	10	5 00
White, Robt.	2	10	5	2 50

*Sold but not transfered.

And in accordance with law, and an order of tha Board of Trustees, made on the 15th day of April, 1864, so many shares of each parcel of said Stock as may be necessary, will be sold at Public Auction at the Auction room of John Middleton, No. 400 Montgomery street, on the 21st day of May, 1864, at the hour of 12 o'clock, M. of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

H. B. CONGDON, Secretary.

18-5t Office, No. 620 Washington street, San Francisco.

Mining and Scientific Press.—This is one of our most valuable exchanges. It comes to us filled with the most valuable articles, original and selected, upon the subject of mining, and we scissorize it to an awful extent. Every person engaged in mining to any extent, should be a subscriber to the Press.—*Gold Hill News.*

Cocheco Gold and Silver Mining Company, Office, 625 Clay street, San Francisco, California. Location, Humboldt District, N. T.

Notice is hereby given that in accordance with an order duly made by the Board of Trustees of the Cocheco Gold & Silver Mining Company, there will be sold at public auction at the Office of the Company, on Monday, May 30th, 1864, at 12 o'clock, M., to the highest bidder for cash, in U. S. Coin, so many shares of the Capital stock of said Company standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay all assessments now delinquent thereon, together with cost of advertising and all accruing charges, unless the same be previously paid.

Names.	No. shs.	Amt due	Names.	No. shs.	Amt due
Geo Acker	20	10 00	Henry Michaels	10	2 50
Mrs M A Torrey	30	15 00	N A Watson	50	12 50
Adrian Spear	10	5 00	Chas H Aitken	10	2 50
L Corey	30	15 00	P J Barbor	25	6 25
Sam'l S Davis	20	10 00	A Burrill	10	2 50
N B Mulville	197	98 50	A Levy	1	25
Wm T Towle	15	7 50	S Reerdon	10	2 50
Miss Amelia Eaton	10	5 00	C B Hudson	10	2 50
T T Kneeland	50	25 00	A McCormick	5	1 25
Thomas Williams	5	2 50	John Lewry	10	2 50
Carlos Mills	3	1 50	C Gignoux	10	2 50
Wm H Manning	200	100 00	J B Bloomingdale	10	2 50
A B Schafer	50	25 00	Lydia Stewart	10	2 50
W H Vanderwater	25	12 50	B M Barker	10	2 50
W H Mills	305	150 00	J R Nealy	5	1 25
Chas McDonald	40	10 00	A W Carrett	10	2 50
W B Allen	10	2 50	John Taylor	5	1 25
Henry Mahoney	5	1 25	Cath M Gilbert	10	2 50
Thomas Brown	5	1 25	J Hamilton	50	12 50
W H Harvey	15	3 75	J N Sewal	100	25 00
S P Cornwall	10	2 50	D Conrad	10	2 50
Caroline T Hall	10	2 50	Dr H Austin	10	2 50
Dan'l H Mitchell	25	0 25	H H Schafer	50	12 50
A N Byfield	65	16 25	Paul Roussa	10	2 50
J B Wells	20	5 00	Warren Holt	20	5 00
Henry Mess	50	12 50	Margaret Upton	10	2 50
Geo Robinson	50	12 50	S Cohen	5	1 25
Jas Drury	30	7 50	Tabor & Hill	40	10 00
Richard Hall	20	5 00	Law Mok	20	5 00
F Brolleau	35	8 75	Joseph Wells	100	25 00
T H Downing	6	1 50	G T Sewal	10	2 50
Edmond Long	3	75	Thomas Prince	50	12 50
Jas R Cates	50	12 50	J G Klumpke	60	15 00
N Atkinson	223	57 00			

By order of tha Board of Trustees.

18-5t C. W. HAYDEN, Sec'y.

Scottie Gold and Silver Mining Company, Office, No. 523 Clay street, San Francisco, California, April 12th, 1864.

Notice is hereby given that in accordance with an order duly made by tha Board of Trustees of the Scottie Gold & Silver Mining Company, there will be sold, at public auction, by Jerome Rice & Co., at their salesroom, No. 327 Montgomery street, San Francisco, on Tuesday, May 31st, 1864 at 12 o'clock, M., to the highest bidder for cash, in United States Coin, so many shares of tha Capital Stock of the said Company, standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay all assessments, now delinquent thereon, together with costs of advertising and all accruing charges, unless previously paid.

Names.	No. Shs.	No. Cert.	Assts.	Amt.
R. Barney	33	41	2nd & 3d	$49 50
S. O. Wright	8	46	2nd & 3d	12 00
R. B. Lovejoy	3	51	3d	3 00
A. K. Durgin	5	89	2nd & 3d	7 50
L. De Young	5	112	3d	5 00
Maria Colin	5	113	3d	5 00
Eloia De Young	5	127	3d	5 00
John W. Shore	50	128	3d	50 00
H. Dockweller	10	129	3d	10 00
A. K. Durgin	2	131	1st 2nd & 3d	4 00
W. R. Greeley	10	141	2nd & 3d	15 00
James Hanna	20	5	1st 2nd & 3d	40 00
P. P. Wood	40	165 to 168	3d	40 00
J. McGlinn	25	180	3d	25 00
W. W. McCoy	20	95 & 96	1st 2nd & 3d	40 00
W. W. McCoy	25	13	1st 2nd & 3d	50 00
W. W. McCoy	3½	93	1st 2nd & 3d	7 00
W. W. McCoy	15	125	1st 2nd & 3d	30 00

By order of the Board of Trustees.

18-5t B. W. MUDGE, Secretary.

Smith & Martin Gold and Silver Mining Company, Reese River District, Lander county, N. T. Office, No. 35 Government House, San Francisco, Cal.

Notice is hereby given that in accordance with the Laws of tha State of California, and an order duly made by the Board of Trustees of the Smith & Martin Gold and Silver Mining Company, there will be sold at Public Auction, at the salesrooms of Messrs. Cobb & Shiton, No. 406 Montgomery street, San Francisco Cal., on Saturday, June 13th, A. D. 1864, at 11 o'clock A. M, of that day to tha highest bidder, for cash, in United States coin, so many shares of the Capital Stock of said Company standing in the names of the following persons as will be necessary for the payment of an Assessment of fifty cents per share, duly levied thereon by the Board of Trustees, on the 9th day of March, A. D, 1864, together with the expenses of advertisement and sale, to wit, &c,

Names.	No. Certificates.	No. Shares.	Amt.
Henry Smith,	Cert—13, 14 Shs—10, 10	20	$10 00
George Warren,	23	5	2 50
R Martin,	Cert—31, 40 Shs—10, 7½	17½	8 75
F C Robinson,	Cert—49, 50, 51, 53 Shs—20, 20, 10, 5	55	27 50
J A Maynard,	Cert—56, 57, 58, 59, 61 Shs—20, 20, 10, 10, 5	65	32 50
J Lessingwell,	99	20	10 00
A E Minnica,	Cert—62, 63, 64, 67 Shs—20, 20, 20, 5	65	32 50
William Rose,	Cert—76, 77 Shs—5, 5	10	5 00
F F Hatfield,	Cert—82, 83, 84 Shs—10, 5, 7½	22½	11 25
Samuel Donnelly,	Cert—93, 121 Shs—7½, 2½	10	5 00
William Murphy,	95	5	2 50
E S Davis,	Cert—97, 98, 99 Shs—10, 5, 7½	22½	11 25
William Calnan,	100	9	4 50
David McDaniel,	7	15	7 50
C F Morrell,	10	10	5 00
Robert Rankin,	1	15	7 50
I W Doss,	101	5	2 50
Thomas McCartney,	118	2½	1 25
J G Dows,	122	10	5 00
W C Daggett,	Cert—125, 128, 132 Sbs— 5, 5, 5	15	7 50
R S Cassinger,	127	10	5 00
W W Nixon,	130	10	5 00
W Wallin,	134	10	5 00
Isaac S Titus,	135	10	5 00

19-4t ROBERT T. POLK, Secretary.

Whitton Gold and Silver Mining Company, Silver Mountain District, California.

NOTICE.—There is delinquent upon the following described stock, on account of assessment levied April 20th, 1864, of fifty cents per share, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shares.	Amt.
Arnold, Mrs B W	150	10	$5 00
Brannon, S	86	10	5 00
Bridges, M C	104	10	5 00
Cornwall, J F	80	10	5 00
Carroll, Herbert	128	5	2 50
Daly, J C	93	25	12 50
Davis, W C	127	10	5 00
Fox, H	136	10	5 00
Fox, H	137	15	7 50
Irvin, James	82	183	91 50
Irvin, James	83	184	92 00
Irvin, James	101	10	5 00
Jordon, Emily	90	10	5 00
McGlew, Thomas	3	10	5 00
McGlew, Thomas	4	10	5 00
McGlew, Thomas	7	10	5 00
McGlew, Thomas	95	5	2 50
McGlew, Thomas	96	5	2 50
McGlew, Thomas	122	5	2 50
McGlew, Thomas	123	5	2 50
McGlew, Thomas	124	5	2 50
Mead, J A	76	20	10 00
Mead, J A	77	5	2 50
Mecklenburg, J	130	5	2 50
Pearson, I N	44	10	5 00
Pearson, I N	45	10	5 00
Pearson, I N	46	10	5 00
Pearson, I N	47	5	2 50
Pearson, I N	48	5	2 50
Pearson, I N	49	5	2 50
Pearson, I N	50	5	2 50
Perry, H E	102	10	5 00
Ploger, C A	126	5	2 50
Rowland, Henry	84	15	7 50
Rowland, Henry	85	20	10 00
Rowland, Henry	108	128	64 00
Richards, F E	135	5	2 50
Toomy, H	not issued	50	25 00
Tabor & Hill	92	20	10 00
Utting, H N	8	50	25 00
Utting, H N	9	50	25 00
Utting, H N	10	50	25 00
Utting, H N	11	50	25 00
Utting, H N	12	50	25 00
Utting, H N	13	50	25 00
Utting, H N	14	10	5 00
Utting, H N	15	10	5 00
Utting, H N	16	10	5 00
Utting, H N	17	10	5 00
Utting, H N	18	10	5 00
Utting, H N	19	10	5 00
Utting, H N	20	10	5 00
Utting, H N	21	10	5 00
Utting, H N	22	10	5 00
Utting, H N	23	10	5 00
Utting, H N	24	20	10 00
Utting, H N	25	20	10 00
Utting, H N	26	20	10 00
Utting, H N	27	20	10 00
Utting, H N	28	20	10 00
Utting, H N	31	5	2 50
Utting, H N	32	5	2 50
Utting, H N	34	5	2 50
Utting, H N	35	5	2 50
Utting, H N	37	5	2 50
Utting, H N	38	5	2 50
Utting, H N	132	3	1 50
Utting, H N	133	2	1 00
Whitton, R J	2	10	5 00
Whitton, R J	75	50	25 00
Whitton, R J	78	10	5 00
Whitton, R J	94	25	12 50
Whitton, R J	106	5	2 50
Whitton, R J	107	25	12 50
Whitton, R J	108	25	12 50
Whitton, R J	109	25	12 50
Whitton, R J	110	25	12 50
Whitton, R J	111	25	12 50
Whitton, R J	112	10	5 00
Whitton, R J	113	10	5 00
Whitton, R J	114	10	5 00
Whitton, R J	116	10	5 00
Whitton, R J	117	10	5 00
Whitton, R J	118	10	5 00
Whitton, R J	119	10	5 00
Whitton, R J	120	10	5 00
Whitton, R J	121	10	5 00
Whitton, R J	140	10	5 00
Whitton, R J	not issued	20	10 00
Walton, G H	100	30	15 00
Welch & Harny	184	5	2 50
Young, G W	141	25	12 50
Young, G W	142	25	12 50
Young, G W	151	100	50 00

And in accordance with law, and an order made by the Board of Trustees, April 20th, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the office of the Company, on the 9th day of June next, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with cost of advertising and expenses of sale.

J. WARREN CLARK, Secretary.

Office, No. 430 Montgomery street, No. 5, 3d floor, San Francisco.
San Francisco, May 21, 1864. 21-2t

Caledonia Tunnel and Mining Company, Office, No. 10, Government House, San Francisco, May 17, 1864.

Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Caledonia Tunnel and Mining Company, as required by the By-Laws of said company, there will be sold at public auction, to the highest bidder for cash, in United States Gold Coin, on SATURDAY, June 18, 1864, at 11 A. M. of that day, at the salesroom of Messrs. Jerome Rice & Co., No. 327 Montgomery street, San Francisco, so many shares of the capital stock of said company, standing in the name of the following person, or shareholder, as will be necessary for the payment of all assessments duly levied thereon by the Board of Trustees, and delinquent, together with the expense of advertising and sale:

Thomas Sunderland, Administrator of the Estate of H. O. Gaylor. No. certificates—602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621....200 shares.....$2414 50

By order of the Board of Trustees.

21-4t J. M. BUFFINGTON, Secretary.

Two Good Canvassing Agents can find profitable employment by calling at this office. None but active and competent need apply.

For Sending East, no more valuable or appropriate publication can be selected than the MINING AND SCIENTIFIC PRESS. For sale by the principal newsagents.

Wilson Gold and Silver Mining Company.—Location, Echo District, Humboldt county, Nevada Territory.

NOTICE.—There are delinquent, upon the following described stock, on account of Assessments duly levied by order of the Board of Trustees, on the first day of October, 1863, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amt.
H. G. Blasdell	not issued	300	$300 00
J. W. Fife	not issued	300	300 00
Abner Wade	17, 18, 19, 20, 21, of 20 shs each.	100	100 00
Abner Wade	23, 24, 25, of 10 shs each.	30	30 00
Abner Wade	26, 27, of 5 shs each.	10	10 00
I. N. Thorne	not issued	76	75 00
Robt. J. Fulton	1, 2, 3, 4, 5, of 10 shs each.	50	50 00
Robt. J. Fulton	6, 7, 8, 9, of 25 shs each.	100	100 00
E. C. Palmer	33	bal due on 37½	28 15
C. A. Uhrig	47	37½	37 50
Thomas Mulcahy	32	5	5 00
Arthur Halne	36	12	12 00
John Pulice	101	10	10 00
D. P. Winne	102, 103, of 25 shs each.	50	50 00
Edward A. Morse	110	10	10 00
H. M. Letton	61, 62, 63, 64, 65, of 10 shs each.	50	50 00
J. G. Hanson	79, 80, 81, 82, of 50 shs each.	200	200 00
C. M. Batebelder	10	10	10 00
Mrs. E. W. Carey	11	10	10 00
Emma Patten	13	10	10 00
John Brennan	14	10	10 00
Mrs. E. A. Baxter	15	10	10 00
D. H. Kinsey	16	20	20 00
John C. Ing	83	10	10 00
R. G. Carlyle		60	60 00
S. Tyler		120	120 00
B. C. Whitman	75, 76, 77, of 25 shs each.	bal due on 75	40 00

Therefore, in accordance with law, and an order of the Board of Trustees, made on the 2d day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on SATURDAY, July 2d, 1864, at 12 o'clock M., of said day, to pay said delinquent assessments (one dollar per share) thereon, together with costs of advertisement and expenses of the sale.

J. F. MILLER, Secretary.

Office, No. 416 Washington street, San Francisco.

N. B.—Payments may be made at any time before the 29th day of June, to A. GAUCHAT, at the mine, or to the Secretary, at his office in San Francisco. (21-2t) J. F. MILLER, Secretary.

Refugio Mining Company, Jesus Maria, Chihuahua, Mexico.

Notice, there are delinquent, upon the following described Stock, on account of Assessment levied on the 18th of November, 1863, and the 9th day of February, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shs.	Am't
Assessment No. 1.			
Davidson, L	100	60	$600 00
Martin, A	101	20	200 00
Assessment No. 2			
Campbell, Robt	3, 93, 94, 169	53	$530 00
Cahill, Ed	13	10	100 00
Burstell, J. M	22, 70, 85, 86, 89, 138, 142, 7	92	920 00
Davidson, L	100, 150	72	720 00
Easman, C. A	105	100	1000 00
Martin, A	101, 161	24	240 00
Malloy, John	88, 91	25	250 00
McKean, A. C	114, 128	6	60 00
Mowry, Sylvester	16	63	630 00
Smyth, C. F	40, 87, 150	50	500 00
Webb, C. H	155	50	500 00

And in accordance with law, and an order of the Board of Trustees made on the 18th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at public auction at the salesroom of Jerome Rice & Co., No. 327 Montgomery Street, on the 21st day of June, 1864, at the hour of 12 o'clock, M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

COLL DEANE, Secretary.

21-4t Office, Odd Fellows Hall, Montgomery st., San Francisco.

Tellurium Gold and Silver Mining Company, Pine Grove, Amador county, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 21st day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amt.
Atkinson, Nathan	245	100	$100
Beckman, Otto	19	5	5
Boylan, Joseph	26	20	20
Boylan, Joseph	27	20	20
Boylan, Joseph	28	20	20
Boylan, Joseph	29	20	20
Boylan, Joseph	30	20	20
Beers, J B	257	162	162
Bufford, J L	91	50	50
Bartlett, C	110	5	5
Boole, Mrs Anna	176	2	2
Cary, J C	172	6	6
Cushing, J J	155	50	50
Cushing, J J	200	35	35
Dyer, W D	49	5	5
Dyer, W D	5	5	5
Gay, A C	256	53	53
Hughes, Chas	134	5	5
Jones, Thos E	202	10	10
Kendall, S	183	5	5
Kendall, S	184	5	5
Kendall, S	190	5	5
Kendall, S	192	5	5
Lartigeau, P	152	10	10
Matthieu, A	133	10	10
Massard Jules	151	10	10
Marguerier, G	159	10	10
Maubec, L	Bal of 164	5	5
Noyes, Nathan	136	5	5
Noble, Murray	237	5	5
Pritchard T	112	5	5
Patton, A F	175	8	8
Pardow, Geo	88	15	15
Senter M S	51	5	5
Senter M S	52	3	3
Senter M S	53	2	2
Stevenott G R	156	50	50
Woodbury C E	247	5	5
Woodbury C E	248	5	5
Woodbury C E	249	5	5
Wilkinson J R	198	5	5

And in accordance with law and an order of the Board of Trustees made on the 21st day of April, 1864, so many shares of each parcel of said stock as may be necessary will be sold at the salesroom of Jerome Rice & Co., on the 4th day of June, 1864, at the hour of 11 o'clock A.M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

WM. H. MARTIN, Secretary.

21-2t Office, 627 Clay street, San Francisco.

Lord Byron Gold and Silver Mining Company.—Location: Devil's Gate District, Nevada Territory.

NOTICE.—There are delinquent upon the following described stock, on account of Assessment levied on the sixteenth day of April, 1864 the several amounts set opposite the names of the respective shareholders, as follows—

Names.	No. Cert.	No. Shares.	Amt.
Booth, L. A.	79	50	$50 00
Barker, S.	94	1	1 00
Berry, R. W.	2	13	13 00
Berry, R. W.	64	30	30 00
Berry, R. W.	105	10	10 00
Brown, B. T.	8	25	25 00
Brown, B. T.	9	25	25 00
Brown, B. T.	10	25	25 00
Brown, B. T.	107	12	12 00
Brown, B. T.	108	10	10 00
Brown, B. T.	109	10	10 00
Brown, B. T.	110	6	6 00
Brown, B. T.	69	20	20 00
Bones, J. W.	102	13	13 00
Bagge, Theo. F.	35	25	25 00
Bonestell, L. H.	116	6	5 00
Bonestell, L. H.	117	10	10 00
Bonestell, L. H.	118	10	10 00
Bonestell, L. H.	119	10	10 00
Bonestell, L. H.	120	10	10 00
Card, R.	39	25	25 00
Card, R.	40	100	100 00
Dilley, James S.	111	20	20 00
Dyer, Wm. D.	101	15	15 00
Graham, Edward	93	4	4 00
Hall, R.	91	20	20 00
Hall, R.	92	8	8 00
Hudson, Cco. A.	50	50	50 00
Holland, Patrick	67	20	20 00
Holland, Patrick	68	20	20 00
Holland, Patrick	69	10	10 00
Knapp, W. A.	98	15	15 00
Knapp, W. A.	114	10	10 00
Knapp, W. A.	115	10	10 00
Lawton, Irving	106	15	15 00
Lansing, G. J.	70	10	10 00
Mains, J. P.	112	15	15 00
Mains, J. P.	113	10	10 00
Morgan, F.	27	25	25 00
Morgan, F.	67	25	25 00
Morgan, F.	76	10	10 00
Morgan, F.	99	25	25 00
McNamara, Thos.	51	12	12 00
McNamara, Thos.	55	17	17 00
McNamara, G. S.	104	25	25 00
Murphy, Patrick	37	25	25 00
Mikkleson, R.	44	5	5 00
McNutt, C. W.	63	20	20 00
Nason, R. H.	23	10	10 00
Nason, R. H.	24	10	10 00
Nason, R. H.	25	5	5 00
Nason, R. H.	100	25	25 00
Nichols, Mary A.	43	50	50 00
Olney, C. C. (Trustee)	36	25	25 00
Olsen, Peter C.	61	10	10 00
Price, Miss G.	45	5	5 00
Pride, Wm. H.	95	20	20 00
Pride, Wm. H.	96	20	20 00
Pride, Wm. H.	97	10	10 00
Sheehan, Maurice	38	50	50 00
Taylor, L. W.	31	20	20 00
Taylor, L. W.	32	20	20 00
Taylor, L. W.	33	20	20 00
Taylor, L. W.	34	20	20 00
Warren, Miss M. R.	46	5	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 16th day of April, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the auction room of Jno. Middleton & Son, No. 401 Montgomery street, San Francisco, on SATURDAY, the 4th day of June, 1864, at the hour of 12 o'clock, M., of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

H. B. CONGDON, Secretary.

21-3t Office, No. 620 Washington street, Room 3, San Francisco.

United States Gold and Silver Mining Company.— Mine located in Lander county, Nevada Territory.

NOTICE.—There are delinquent upon the following described stock, on account of Assessment No. 1, levied December 23d, 1863, of three cents per share, and Assessment No. 2, levied February 6th, 1864, of five cents per share, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Shares.	Amount.
ASSESSMENT NUMBER ONE.		
E Lashier,	400—not issued	$12 00
J S Schuster,	332—not issued	9 96
George Baumer,	334—not issued	10 02
Henry Schulz,	334—not issued	10 02
D B James,	100—not issued	3 00
D Tourtellotta,	200—not issued	6 00
ASSESSMENT NUMBER TWO.		
Fisher M Clarke,	400—not issued	20 00
F Lashier,	400—not issued	20 00
R R Fuller.	334—not issued	16 70
J S Schuster,	332—not issued	16 70
George Baumer,	334—not issued	16 70
Henry Schutz,	334—not issued	16 70
D B James,	100—not issued	5 00
D Tourtellotta,	200—not issued	10 00

And in accordance with law, and an order of the Board of Trustees, made on the twentieth day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the auction rooms of John Middleton & Son, No. 400 Montgomery street San Francisco, on MONDAY, the 20th day of June next, at 12 o'clock M. of said day, to pay the delinquent assessments thereon, together with costs of advertising and expenses of the sale.

T. L. BIBBINS, Secretary.

Office, No. 302 Montgomery street, San Francisco.
San Francisco, May 20th, 1864. 21-5t

Eureka Mining Company, Mineral Spring District, Calaveras County, State of California.

Notice.—There is delinquent, upon the following described Stock, on account of Assessment levied on the 12th day of April, 1864, the several amounts set opposite the Names of the respective shareholders, as follows:

Names.	No. Cert.	No. Share.	Amount.
D T Brown Jr	51	10	2 00
Chas S Nathan	37	5	1 00
Antonio Rose	119	10	2 00
Antonio Rose	131	10	2 00
Antonio Rose	152	20	4 00
Jesse Thompson	100	10	2 00
Jesse Thompson	101	10	2 00
Jesse Thompson	102	10	2 00
Jesse Thompson	103	12	2 40
Jesse Thompson	127	20	4 00

And in accordance with law, and an order of the Board of Trustees, made on the 12th day of April, 1864, so many shares of each parcel of said Stock as may be necessary, will be sold at the office of the Company, on the 30th day of May, 1864, at the hour of 12 o'clock M, of said day, to pay said delinquent Assessment thereon, together with costs of Advertising and expenses of the Sale.

C. W. HAYDEN, Secretary.

20-5t Office, 625 Clay Street, San Francisco.

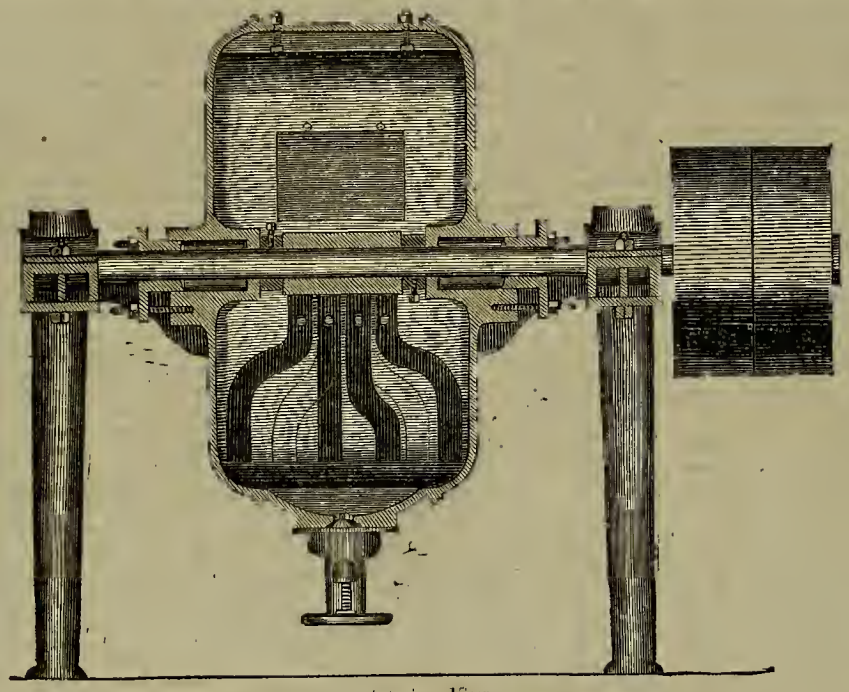
AND SCIENTIFIC

Mining Press.

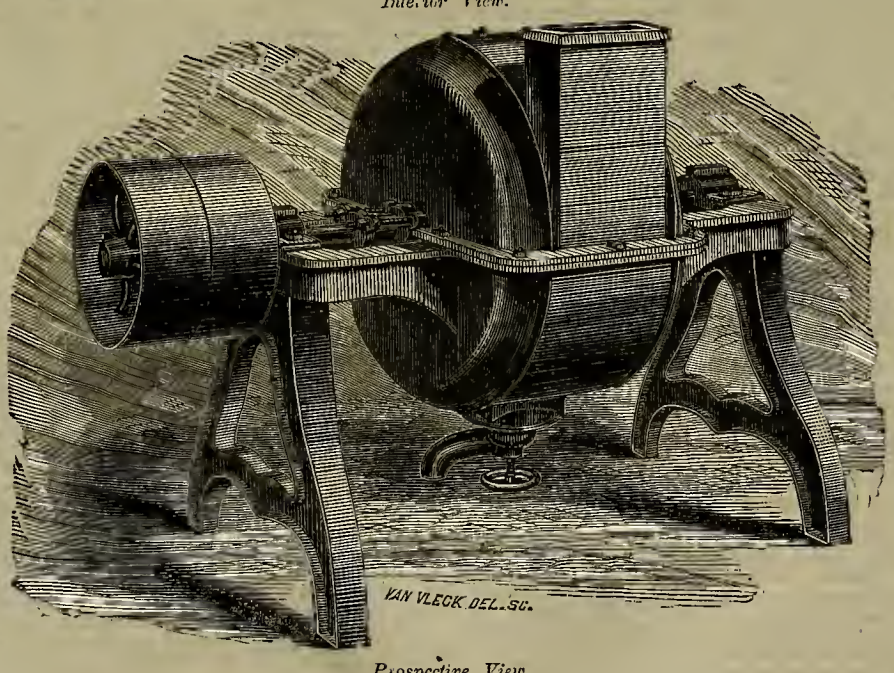
A Mining Journal--Devoted to News, Art, Science and Progress.

VOLUME VIII. SAN FRANCISCO, SATURDAY, JUNE 4, 1864. NUMBER 23.

HOWLAND'S CYLINDER AMALGAMATOR.



Interior View.



Prospective View.

This Machine consists of a stationary cast-iron cylinder, into which the pulp is placed, and within which is caused to revolve several arms or stirrers, as is seen in the lower figure. Two or three sets of arms are affixed to the revolving shaft, as is shown in the lower figure, one set being in sight, and the position of the other set being shown by the outline between; the two being so arranged, that the second set, as it comes around, strikes the pulp in a different place from that occupied by the previous one, thus ensuring a thorough and complete agitation of the entire mass. The principle upon which this machine works is the same as that of the Freiberg barrel. In the latter, pieces of soft or wrought iron are placed loosely with the pulp, and the cylinder or barrel is made to revolve, thus producing the necessary agitation. In this machine the cylinder is stationary and the agitation is effected by the arms as above described, which are made of *wrought iron*, in addition to which a bar of wrought iron is also bolted to the top of the interior circumference of the cylinder. The chemical action, of course, is the same in both. The machine is discharged through a convenient opening at the bottom, as shown in the cut.

This machine undoubtedly possesses many advantages over the Frieberg barrel in point of economy, both in time and wear. We are informed that the cylinder amalgamator will accomplish its work in one quarter of the time required by the barrel, and at a much less expense of power. The original cost of the cylinder is but a trifle, if any greater than the barrel, when placed in its frame ready to receive power. The cost for wear and tear in the iron cylinder is also much less than that in the barrel. We understand that this machine is now being introduced into mills in Washoe, Esmeralda and Reese River. It is manufactured at the Miners' Foundry, in this city; Mr. Howland, one of the proprietors of the foundry, being its inventor.

The Chemistry of the Process employed by this machine may be stated as follows:—The ore being roasted with common salt, has all its silver, copper, lead and antimony converted into metallic chlorides. These chlorides are, in turn, converted into the metallic state by the action of the iron—the iron itself *becoming* chloride. The copper, by the roasting, is converted into the deuto-chloride, and subsequently by the action of the iron, is partly converted into the proto-chloride of copper, and partly to the metallic state, which latter portion of the copper, precipitates the silver in a metallic form. If the mercury is present in sufficient quantity, all the silver, lead antimony and copper is taken up in the form of an amalgam. If sufficient iron has not been added before adding the mercury, or if it has not been worked with the ore long enough to convert the deuto-chloride of copper into that of the proto-chloride before adding the mercury, a loss of mercury will take place, because it will act upon the undecomposed chloride and become calomel. The heat engendered in the process is due partly to the chemical action going on in the mass and in part to the friction which is produced.

The population of Canada is reported to be 2,506,735.

Written for the Mining and Scientific Press.]

THE FORMATION OF METALLIC VEINS.

NUMBER VI.

BY EDWARD A. MILES.

The entire theory the writer has outlined, concerning the formation of metallic veins, is the only one he can consistently adopt to explain all the peculiarities of several hundred mineral veins that have come under his particular notice during the past five years. For a long time firm in the commonly-accepted belief in the igneous origin of most veins, he continually encountered facts difficult to explain by any such hypothesis, until those facts caused him to frame a chemical theory, wherein he enconntered better success. But still finding simple chemical action insufficient to render many things conformable, he, finally, about a year ago, fixed upon electricity as the secret power of metallic production, and during an extended prospecting tour of eight months in Nevada Territory, directed his attention to every fact seemiag to afford proof or denial of such a theory. He is confirmed in his helief hy the possession of quite au array of facts sustaining those already advanced in respect to the mines of California and Nevada Territory. Since committing the theory to paper, several months ago, the writer has sought all the information readily ohtainahle conceruing the mines of other countries, and finds that the same general laws of construction are impressed npon them all, and that these, as well as their variances, can only be plausihly accounted for hy electricity as the one chief cause. The suggestion of electricity as an agent of mineral creations, has been briefly put forth by several scientific authors; hut only lately, in his research, did the writer become aware that there had heen any attempted demonstration of electricity as the great cause above all others. It appears that as long ago as 1838 a scientific paper was puhlished in England hy R. Were Fox, Esq., the same who first experimentally detected electrical currents in veins, seeking to trace the formation of veinstone and the introduction of metals to electricity. After claiming to have put forth the idea in 1822, he says: "In 1827, I again alluded to the suhject and to the apparent analogy hetween the geuerally prevalent direction of the principal metallic veins nearly at right angles to the magaetic meridian. Between two and three years afterwards, I commenced my experiments on the electro-maguetic properties of the metalliferous veins, and proved the reality of the existence of electricity in them."

Mr. Fox, heyond all doubt, is entitled to the merit of the suggestion; hut, aside from the application of his theory to the formation of veinstone and the faults and local peculiarities of the Cornwall mines, he did not attempt to render the said theory coaformable with the various peculiarities of other mining sections and the extended laws of electricity, nor did he assign any positive source to the metals, without which the electrical cause cannot expect general credence. From the fact of beiag ahle to cause fissures, as well as small veins of zinc, in masses of moist clay by the lengthy action of galvanic currents, Mr. Fox rather weakened his theory at the start by assuming that many of the fissures containing veins were originally produced hy electricity, after the surrounding rocks had secured their present positions.

In regard to veins that have come under the writer's observation, it is more compatihle with kaown effects and appareat causes to consider most fissures across cleavage planes and in solid masses of rock as mechaaical results, necessarily caused either hy the distention and cooling of the eruptive dykes, or, in case of crevice veins in a general formation, through the hending of the strata hy an uplifting force beneath. It is very apparent, however, that the electro-chemical power is often active in extending veins and their spurs; pre-created fissures heiag the hasis of the action. Proceeding upon the decidedly donhtful hypothesis of great heat in the interior of the earth, Mr. Fox suggested the phenomenon of deep fissures holding a dowaward flow of cold water and a returniag stream of hot water assisting in the filling of the same, hy causiag infiltration of earth and masses of rock from ahove and chemical deposition from below; the electricity aiding the decomposition and accumulation. As hearing on this point, he noticed a difference of temperature in the slate and the granite at similar levels, the former being one or two degrees warmer, and the fact that Fournet, a French geologist, had observed in the mines of France proof of the progressive enlargement and filling of fissures. Heat may be truly considered as one of the effects rather than the cause of the later electro-chemical action in veins. It is not true tbat more than a comparatively small number of veins are connected with deep fissures; aud wbile eruptive rocks have in many cases assisted with their heat in the formation of veinstone, there are veins, such as those of galena in limestone, where no great euergy of heat ever existed, although undouhtedly present iu the electrical changes. Again, Mr. Fox committed the error of contending that the prevalent direction of the principal Cornwall veins, "at right angles to the magnetic meridian," is a strong proof of the electrical creation, whereas the principal veins in other portions of the world have different directions, regulated seemingly hy their geological surroundings. Extending his tbeory to the consideratioa of the faults, division and other local peculiarities of the Cornwall veins, Mr. Fox gave many strong proofs of the electrical agency, hut not exactly of the assigned modes of action. He states that where veins cross each other at right angles but one is rich, and that the favored veins always have the same set direction. This influence of direction among a compound series of veins the writer had occasion to notice not long since, and considers the enriching of certain chosen lines of flow a good argument in favor of the electrical operation. Mr. Fox succeeded in producing sulpburets of copper hy the lengthy treatment of other forms of ore with a galvanic current; an important experiment, cousidering the great difficulty of hringing ahout the accomplishment of the same result hy any other process within human control.* Mr. Henwood, a coadjutor of Mr. Fox in the experiments concerning the electrical currents of veins, disparaged the idea of any regularity in said currents or their prominence in the creation of veins, alleging that the currents were alone detected in tbe metallic parts of veins, and greatest where heaves or faults occurred. As the inteasity of electrical currents affects not the needle of a galvauometer, it is hardly supposable that the delicate quantity atomically set free in veins will always overcome the directioual state of the magnetic needle. It is the best evidence that such currents really do exist, that they should he manifested where faults or such iutrusive ores cause differeut relations of conduction.

Ahout the tiue Mr. Fox's theory was pnblished, electricity was having an immense run of popularity, and extravagant predictions and anticipations of the immediate and wonderful effects of its power frequently indulged, until check-mated by a realization of the impenetrahle harriers which its first principles present even to this day. Mr. Crosse managed, by many mouth's action with galvanic batteries, to produce from powdered material quite perfect crystals of minerals similar to those found ia nature. Not oaly the lamination of rocks hut also the separation of different mineral elements such as clay, lime and saud in strata was ascribed to the same cause.

Tbe writer has thus particularly referred to a long-promulgated and almost forgotteu theory in order to do justice to oue who first recognized the agency of electricity in metallic veins. Having unconsciously arrived at the same general conclusioa, hy an entirely independent series of investigations, tbe writer is pleased to find his own views fully sustained hy all the facts stated by Mr. Fox in his paper.

It may he asked what benefits will accrue from a complete substantiation of the geaeral distribution of metals in the earth and of the agency of electricity in veins? To this it may he answered that:

1. By dissipating the doubts concerning the origin of veins, every failure in working them will become a sure and profitable lesson to guide future operations of the kiad in all parts of the world.

2. By a mineralogical and geological examination and chemical analysis of the surrounding rocks, it can he discerned what metals impregnate the differeat veins, and hy the exteat, apparent energy, etc., of the operating influence, the approximate amount of the metals within their walls can he determined.

3. A large number of veins, poor in the aggregate of rock, may be made to yield a working profit hy a close stady of local positions and parts.

4. The working of metallic lodes will he placed upon a safe and profitahle hasis hy the clear adaption of known laws; the persons aud communities interested in them euriched; extravagant and feverish anticipations froai superficial evidences in mining regions prevented from sapping established prosperity; frenzied, periodical tides of mining excitement stemmed at the fountain heads or made impassable, and a conscientious spirit of rectitude restored to every social and husiaess circle of our State.

*It is said that sulphurets have been produced by a discharge between a plate of sulphur and a metallic disk.

[Written for the Mining and Scientific Press.]

From a Special Correspondent.

THE NEWTON MINE.

Five miles east of Ione, in a ravine, through which passes the Jackson road, I came to the mine of the Newton Co., comprising 1,800 feet of ground. There are two shafts sunk on the vein, one hundred yards apart. The most southerly one is seventy feet in depth, and the other, close heside the road, one hundred and eighty feet. Guided by Mr. James Guylas, the Superintendent of the miae, I descended the ladder of the main shaft, which opening is four by six feet in the clear, and strongly aad neatly timhered. We stopped occasionally to examine rich bodies of ore and peculiarities of the vein, not forgetting to admire the symmetry of shaft, in which my guide, who, from his eighth year to advanced manhood, has delved beneath the earth's surface, seemed to take special pride. At the depth of 70 feet we came to the place where the copper was struck hy the first shaft. This prospecting shaft started down along the foot wall ia a heavy deposit of mundic, and at the depth named, a drift was carried eastward toward the hanging wall. After passing through ten feet of mundic, a good vein of copper ore was struck. Since then the old shaft has been filled up, and another one opened and continued down on the east side of the mundic, at an angle of 80 degrees. At the depth of 160 feet, we passed into a drift leading northward 30 feet along the vein. Here I was enahled to fully examine the construction of the vein. The mundic—a much fiuer grained deposit of iron sulphurets than that of the English mines—lies against a foot-wall of clay slate, and is supposed to retain a general width of ten feet, though usually hut little penetrated or removed. It possesses a nearly perpendicular slaty fracture and a rolling or uneven face. Next eastward of the mundic comes the vein of ore, here averaging a width of ten iaches, but narrowing and enlarging with the contour of the muudic, which appears to control the size of the vein without regard to the hauging wall. Between the line of ore and the hauging wall is a vein of cream-colored magnesian clay, about the hardness of chalk. This varies from six inches to two feet in thickness, and is technically termed hy the miners "the gorge." It is sometimes associated with a little fluccan, a soft, creamy mass, which, in the Cornwall mines, entirely occupies the place of this "gorge." The hanging wall is a hard, glossy mass of serpentine. Thus there is hetween the walls three distinct strata, filliag a width of ahout 15 feet and dipping regularly eastward. Crossing the shaft, we entered another drift, passing southward 200 feet. At the distaace of 160 feet, the mundic, after dwindling to a mere point on the foot wall, entirely disappears, while the serpentine, with a curved line of vertical cleavage, here closes across the vein of ore, which gradually grows more narrow, changes in character, and finally merges into solid quartz at the end of the drift. The vein at this end assumes an inclination nearer perpendicular. Retracing our steps ahout three-fourths the length of the drift, we scaled the smooth walls and slippery timhers of a shoot, some 30 feet, to the upper line of stopeing, or point up to which the ore had been extracted, and wormed our way through several narrow places and over otber shoots. Ia cautiously advaacing over the more perilous places, I received aid from my stalwart guide, and confidently followed literally at his heels. Reaching the extreme southern limit, we next returned northward, and proceeded within 12 feet of the shaft. Through a distance of 150 feet, where for an average height of 25 feet from the top of the lower drift the ore had been extracted, we closely examined overhead an unbroken liae of copper sulphurets, ranging from one to two feet ia width. Lengthy views of this vein of ore, distinguishable by cross fractures and black exteraal oxidatiou, gave an impressive sense of the wealth of this mine. In the lower drift, I satisfied myself that the continuous vein possesses a length of at least 230 feet. In traversing the line of stopeing, we came to a singular freak of the mundic, where, proceeding southward, it had suddenly raised to the perpendicular hight of 18 inches, gone about the same distance on the new level, and thea again leaped an equal distance to its eventual plane, thus formiag two distinct steps, extending up and down the ledge as far as discernable. When the workmen reached this singular place they for a time thought that the vein of ore had stepped out. Returning to the shaft, we concluded not to attempt the remaining 20 feet of

depth, which is being extended as fast as such work can progress with only four men about the mine. Reaching the surface, we next examined the outside of the southerly shaft, the sulphurets of which appear to be of a low grade and mixed with carbonates. The selected sulphurets of the entire vein rarely exceed a value of 14 per cent. Twelve hundred tons of ore have been shipped up to the present time, constituting the full product of the mine, unassorted. For the sake of concentrating the second class ore, resort has lately been had to roasting, for which purpose it is contemplated to erect suitable furnaces. The shaft is enclosed by a building, and the hoisting is done with a whim.

OTHER MINES.

Five hundred feet south of the Newton ledge, on the same vein, is the claim of the Oak Hall Company, with a shaft down 108 feet, and drifts in search of the vein summing up a length of 90 feet. The expenditures have amounted to some $5,000. At present, the claim is idle.

Three miles south, on the Newton vein, is the shaft of the Ione Co., 100 feet in depth, and for the last 60 feet possessed of a small vein of low grade ore. No work going on.

There are two or three claims being prospected at the present time between the latter claim and the Mokelumne river; the names I did not learn.

One and a-half miles north of the Newton claim, on the Dnty vein, is the claim of the Rutledge Co., commonly known as the Richardson ground; shaft 250 feet deep, in sinking which about five tons of ore were taken out. The total expenses have not exceeded $4,000, mostly borne by a contractor, who agreed to prospect the claim, and receive an interest in payment of his work.

A quarter of a mile south of this claim, on the Hornblende vein, which lies between the Dnty and Newton, is the claim of the Randal Co., with a shaft 130 feet in depth.

In this cursory view of the copper mines of Amador county, I have only attempted to briefly notice the condition and progress of those in best repute, together with a few others considered undeveloped, as samples of the expectations and expenditures of this branch of mining. Had I done more than this, I would have shown greater interest in the various claims than the owners at present choose to accord them. A little more than a year ago, a strip of country about five miles in width and fifty in length, between the American and Mokelumne rivers, was being investigated by a host of prospectors for copper. To-day, scarcely a dozen men outside the claims herein mentioned are thus employed. Business men, ranchmen and others lament the stringency caused by investments in copper mining, but hopefully look forward to a time when further developments of the opened and prospective mines shall bring individual profit and bustling communities of connected interest.

Your compositor last week illustrated me as crossing a "rude bridge," instead of "wide ridge," as written. M.

SILVER IN AUSTRALIA.—Silver mines are being discovered to a considerable extent in Australia, and are beginning to afford quite a promising yield. Late advices report "a silver Cornwall" at St. Arnaud, in the colony of Victoria, out of which the English journals are prophesying new elements of Australian prosperity, and new and important commercial enterprises. Like the gold discoveries in that region, so have these new silver discoveries been prompted by the wonderful developments of that mineral in Washoe. An association is contemplated in London to explore and work this new field of enterprise with every appliance which English experience and capital can bear upon it. The London *Times* is rather inclined to complain that their geologists and scientific men have not made the discovery at an earlier day, and suggests that lost time on the part of these gentlemen by an early preparation of a suitable works, popularizing information as to the true indications of silver deposits in mineral regions, and the best method of searching for it—one that shall be a guide to the miner abroad and at home, and be of universal benefit. Even with reference to home mining districts in England, it is intimated that the doubt might not, after all, be so inadmissable that argentiferous product has been too long overlooked in the zealous search after grosser, but not less useful, minerals.

RUSSIA gets $20,000,000 of gold a year from the Ural mountains.

(Written for the Mining and Scientific Press.)

Amador District, Reese River.

EDITORS PRESS:—It is a pleasure to know that there is a newspaper as ably conducted as the MINING AND SCIENTIFIC PRESS, whose special effort is to enlighten this and other communities in regard to the singular and enormous wealth of this State and the adjacent Territories. I believe you welcome from all sources intelligence concerning the new and promising developments of mines, whether of copper, silver or gold. While every day new districts are brought into notice, the public will acknowledge they are not fully acquainted with some of those less recently discovered. It is not a year since the first pick was struck in the ground for the actual and thorough prospecting of the resources of the country in the district lying about eight miles distant from Austin, Nevada Territory, called the Amador Mining District. The first mine discovered and located in that section was the Coral, concerning which, with some of the adjacent claims, but little information has been given to the public, lest a premature reputation might be given to the same, which might not be sustained after developments. The vigor with which work upon the Coral has been prosecuted has, up to this time, amply repaid all expectations, and the owners of other claims may thank that company for their energy in determining as soon as possible the fulfillment of the promise which earlier indications gave. It has been to that company, however, a tedious and anxious undertaking, for they have met the same varied fortune which has heretofore attended the companies working the North Star, Oregon, and several lodes of like character, situated in the district nearer the town of Austin, the owing to the upper portions of the hills carrying with them the crowns of the lodes. In brief, like them, the Coral Company has sunk its shaft upon the lode; has found that it has slidden with the hill; has run a level following a seam, which was their sure guide; has lost it again; has still pursued its way, persistently following the guiding seam over their heads, until they have finally, a few weeks ago, found the main ledge, beautifully defined, with "walls from which the quartz cleaves off, leaving them as smooth as glass," and the character and width of the lode demonstrates, in a great degree, what may be expected of others in that vicinity. The greater width of the mines in the Amador district at once, upon their discovery, drew attention away from the Yankee Blade and Reese River districts for awhile; but the croakers, who came in a little slowly to find all the promising claims located, prophesied that if they were wide they couldn't be very rich. They have little to say, however, now, when the Coral, with a lode of six feet wide, has already shown a handsome stratum of the dark blue sulphurets of silver, which have given a merited reputation to the North Star and Oregon. The greater depth attained in the Coral than in any other mine in the district, has already given assurance of the wealth which will undoubtedly be confirmed by the much greater depth at which the Amador Tunnel, when completed, will strike their lode. Upon the Coral's success, other claims may predicate a like good fortune, as the Zaidee, the next claim above the Coral, which already offers, in rich assays, unmistakable proof of a valuable deposit below. Rough and Ready is situated in the immediate vicinity, and only needs a vigorous prosecution of labor to show a handsome deposit, while Old Hickory and others near these mentioned will undoubtedly take place near the best veins in this district of incomparable promise.

SILVER IN BUENOS AYRES.—In the Argentine Republic, province of San Juan, and at the foot of the Andes, 700 miles distant from Buenos Ayres, a rich silver-bearing region of immense extent has recently been discovered. An area of 100 miles by 40 has already been prospected, and, wherever worked, a yield rarely surpassed in quantity and quality by any other district has rewarded the adventurers, whose labors are facilitated by smelting works, with the best English machinery, being already erected on the spot for the reduction and refining of the silver.

IMPORTANT DISCOVERY—Dr. Richardson an English chemist, claims to have made the discovery that iodine placed in a small box with a perforated lid is a good means of destroying organic poison in rooms. During the late epidemic small-pox in London, he saw the method used with benefit.

(Written for the Mining and Scientific Press.)

From El Paso.

EDITORS PRESS:—I am happy to be able to state that the Yarbrough Company have arrived with a force of practical miners and six months' provisions to prosecute the tunnel through Mount Ophir and develop its contents, and that company have the backing to fully carry out any enterprise they may undertake.

The Newton Company are progressing favorably, and intend to double their force as soon as help can be obtained.

The Rochester Company gave up their arrastra during the winter, owing to the continued coldness of the nights, which froze the pulp, and also prevented the free action of the quicksilver. This, together with the high cost of feed—barley 10 cents per lb. and hay $100 per ton—was more than the yield would warrant. They are now sinking on a copper lead at the head of the district.

Your popular and valuable journal reaches us quite regularly, and gives universal satisfaction. From every column the miner can gain useful and practical information.

We have been much chagrined by a full report received per last mail, of the swindling operation of one H. G. Boing, who spent some months of the past year in locating and recording claims and extensions in this region, without doing any work to hold them (with one exception), and then selling out to various parties in San Francisco and vicinity and skedaddling to parts unknown. His former partners have suffered over $200 by him pecuniarily, and two or three in San Francisco about the same, and sundry others in less amounts. We deplore the tendency such conduct may have to prejudice the reputation of our district, as all those who have been swindled will be likely to give us more curses than blessings. C. W. TAPPAN.

EL PASO CITY, May 17, 1864.

A CURIOUS DISCOVERY has recently been made regarding the influence of iron on vegetables. Preparations of iron are used as medicine where the blood is poor in red particles. The pale cheeks of the invalid often regain their bloom under the influence of such tonics. It is the same, it appears, with plants. On the chalky shores of France and England, where there is an absence of iron, vegetation has a sere and blanched appearance. This is entirely removed, it appears, by the application of a solution of sulphate of iron. Haricot beans watered with this substance acquired an additional weight of sixty per cent. Mulberries, peaches, pears, vines, and wheat, derive advantages from the same treatment. In the cultivation of clover, wonderful advantages have been gained by the application of the sulphate of iron on soils in which that ingredient is wanting, and in cases where it is desired to produce an early crop. The material is of course cheap, and the quantity applied small. All the scales falling around the blacksmith's anvils should be saved for the land—they are worth five cents a quart to gardeners. No fruit is so much benefitted by iron rust in the soil as the pear.

SINGULAR COMMERCIAL TRANSACTION.—At the present time very little freight is offering in the Eastern ports for Europe, while there is a large demand on the other side for transportation for passengers to this country. New York ship owners have thus entered into competition for freight eastward, to an extent, in at least one case, according to the New York *Express*, of offering a bonus for the purpose of taking a load of wheat over for nothing; the ship owner even to pay all charges for loading and disembarging! Of course the shipper needed the grain for ballast, which he would otherwise had to have bought at a greater expense. This transaction is probably without a precedent.

PELTRIES—Three hundred and seventy beaver skins and sixty otter hides, says the Stockton *Independent* of May 24th, were sent to the Bay by the Hensley, yesterday afternoon. Dykeman captured 190 of the beaver and 36 otter in the tules in a little less than two months time. Levi Phillips secured the balance. The price of the skins ranges from ninety cents to a dollar each.

Mining Gossip.

EDITED BY.....FRANK WARDELL.
FOR THE MINING AND SCIENTIFIC PRESS.

STARTLING.—We may well use the expression which heads this item when we consider the manner in which Gould & Curry, and in fact almost all the leading stocks "tumbled" in the different stock boards on the morning of the 28th inst. It was startling, indeed. Stocks were low enough before this crash, but when we wituess such a line of stock as Gould & Curry "knocked" without the least particle of mercy by the hulls and bears down to $3,400, we came to the conclusion that it would not do to bet on anything in this mysterious nge. Now, we argued, if Gould & Curry falls, it will, as a matter of course, hring all the other stocks down with it, and what little confidence is left in operators will soon he entirely lost, and the market will consequently he dead for some time to come. Facts thus far fully verify our surmises. We have tried to ascertain the cause of the fall in Gould & Curry, hut we gain nothing definite; it is all outside talk. Some say that the sale in the first instance was a forced one, it heing the stock of a party who had horrowed money upon it, and the loaner demanding his money, the horrower not being ahle to replace it in time, the stock was shoved in the market. Another says the mine does not look as well as it has done, that the rock is not of as good a quality as heretofore. On the other hand, another avers that the mine has never hcen in a hetter condition than at present, that they have taken out $60,000 more during the past month than the previous one, and he thought the divideuds this month would he $150 instead of $125, and what should cause the stock to drop in the market was something that he could not comprehend. Thus it goes. All thiuk they know the cause, and when you come to sum up all you have heard, it is one hatch of contradictions. We are in the dark, and if any of our readers have the "points" they will confer a favor by enlightening us.

THE BOWIE KNIFE.—It is said that one Black, the first manufacturer of the Bowie knife, is the only man who possesses the secret of making and hardening these knives so as to render them equal to the original. His mode of testing them was to lay a half-dollar upon a hlock, and with ono stroke of the knife cnt it in two. If it performed the work the knife was all right; if it turned or hacked the edge, he would coademn it. According to the Nevada *Gazette*, which paper derives its information from parties well acquainted with hoth Black and Bowie, the first Bowie knife was made out of a common hlacksmith's rasp, hy Black, from a pattern whittled out of a shingle hy Bowie, with his jackknife. The manufacture of thnt pattern was the only connection which Bowie ever had with the knife, except to give his name to it and slaughter several people with the first knife made as above. This ideuticnl knife, it is said, was on exhibition at the late New York Sanitary Festival.

HARMON G. ANN S. M. Co.—At an election of officers the following gentlemen were elected for the ensuing year:—Benjamin Dore, President; J. E. Kincaid, W. D. Litchfield, J. W. Cullen, W. H. Davis, H. Rosekrans and E. D. Waters, Trustees; C. W. Moulthrop, Superintendent, and Benjamin Hall, Secretary.

ANOTHER NEW COIN—The new two-cent pieces will soon he in circulation at the East, hearing, on one side, "United Stntes of America—two ceats;" on the reverse, a shield and words, "God our trust." This is the first one of our national coins which recogaizes the existence of God, in either legend or device.

GOOD RUN.—The American Mining Company, at Sehastopol, Nevada county, after a ruu of twelve days, cleaned up the sum of $25,000.

CONSIDERABLE STYLE.—The new Stock Exchange in New York will he, when completed, one of the hnndsomest huildings in that city. It is said that the contract for the iron work alone has been given out at $230,000. The building when finished will cost in the vicinity of $550,000. This does not look as though the war was any great drawback to business in the East. Greenhacks, from what we learn, are being scattered around "rather carelessly." To give our readers a little idea how some of the brokers have feathered their nests, we will take, for instance, L. G. Jerome, formerly proprietor of the Rochester *American*. His fortuue is estimated at $5,000,000. He has huilt a stable on Twenty-sixth street, at a cost of $40,000. Strangers praise and look at the heauty of the huilding, for over it he has fitted up an elegant private theater. He is uow huilding a house which will cost him $150,000, on Madison Avenue and Twenty-sixth street. In the way of horses and carriages he maintains a splendid *menage*. His personal expenditures are almost royal—$100,000 per aunum. The rise of stocks consequent upon the increase of the currency, has brought up Mr. Jerome as a light-house on the surface of the ocean. A Mr. Morse has also made a fortune of two millions hy a rise in stocks. Of conrse he wants to make people believe he is immensely rich; so, when, a few days since, he rented an office on William street, opposite the Exchnage, he paid his rent, $7,500, three yenrs in ndvance, less the interest.

NOVEL INEA.—Some years ago, when money was extremely scarce in Boston, and haaks would only discount the hest of "gilt edge" pnper, nnd a limited quantity at thnt, a customer of one of the institutions resorted to the followiag desperate expedient to see if there was any such way as raising the wind in said concern. He drew up a note for the sum of five dollars, at thirty days, covered it down the back with first class endorsements from his fellow sufferers, then pinned to it a ten dollar bill of the same hank as a collateral security, after which he ventured to offer it for discount. This so enraged the close fisted directors of the hank that they determined not to deal so close with their depositors, and thus the gentleman aforesaid gained his point, in having his "offerings" discounted without further trouble.

THE LUCERNE Co. are said to be taking oat a very fine description of rock from their claim, the best rock being principally taken from an old shaft, north of their hoisting works. This was suuk to a depth of 120 feet, when water hecoming troublesome a drift was started, which cut the ledge nnd found it twenty-six feet from wall to wall. The rock taken out resembles that which once made this claim so famous.

GOON, IF TRUE.—It is stated that ex-Controller Warren has written to his different hondsmen, sayiug he will refuud the money which they paid for him, so soon as he ascertains the amount, as he has made over $60,000 by stock operatioas in the East. We trust that such may he the case, hut must confess we are very skeptical upon the same.

DULL TIMES.—We make the following extract from a letter received in this city from Virginia City, dated the 28th May:—"Stock business is at a complete stand still; brokers, as a general thing, are on the 'hed rock', and city property is on the tumble at a decidedly disagreeahle rate. The 'greenhack trouhle,' which has heen the leading excitement of the week, has collapsed, and hrokers and speculators in 'wild cat,' are discoasolate. Such is life."

SUSPENNED.—Two promiaent hroking establishments have, during the week, heen compelled to suspend payment. Many more will have to follow in their footsteps if times do not improve.

CONTRACT.—The Washingtou Company, in Alpine county, have made a coatract to run three thousand feet of tunnel in their claim.

PROORESSING.—Pipes have already heen laid down in Austin, for the purpose of supplying that place with water. They extend a distance of 1,700 feet.

Reported Discovery of Tin Near Durango, Mexico.

EDITORS OF THE PRESS:—Having noticed a short article in your late issue in regard to the discovery of a tin mine in Mexico, and having heen requested hy a friend of yours to give the puhlic some information on the subject through your valuahle paper, I avail myself of the opportunity, if I am not trespassing too mnch.

At the time of the war between the United Statcs and Mexico, J. T. Boyd, then a captain in one of the companies of the United States army, was for a long time stationed near the city of Durango, in Mexico. While there he had frequent occasion to go to a certain river (the name of which I do not remember) in the mouutains close hy; and while on those visits, on several occasions he saw the natives drive their pack mules into the river when the water was low and load them up with small houlders, like rock from the bed of the river, aud like most of the American people he had a curiosity to know what they were doing with such houlders. He followed them to where they had a small rude furnace huilt, and saw them smelt out metal which proved to he pure tin. They used it for trimming saddles.

Like all good soldiers he attended to his duties until peace spread its wings over the country, and paid no further attention to the tin mincs. When the gold excitement started in California he came here, and for a time followed mining and farming.—After a while the silver mines in Nevada Territory were struck and created quite an excitement. This discovery set Mr. Boyd to reflecting nhout his discovery in Mexico. When the mines nt Silver Mountain were discovered, he became the owner of "feet" thero, and still reflecting on his tin mine, he thought ho had a better thing than gold or silver; so sometime in the latter part of Novemher or first of December, left the mountains and came to this city to get help to go to Mexico in search of this tin mine. Quite a numher of persons agreed to assist him, taking an interest in the discovery, and actually suhscribed articles to that effect; hut afterwards withdrew their names and suhscriptions, which compelled Mr. Boyd and those that still had confidence in the enterprise, to "change his hase of operations," and another agrcement was prepared, varying somewhat from the first. Several wealthy citizens of San Francisco took au interest in the enterprise, and one thousand dollars was finally suhscribed and paid in. Mr. Boyd, accompnnied hy M. Clayton Hamhly, son of a prominent lawyer of this city, started for Mexico. Arriving at Durango, they immediately set out in senrch of the mine. Proceeding to the river where Mr. Boyd first saw the tin ore, they found it as he left it, seven years hefore. After examining the houlders in the river, and the condition of things there, like good practical miners they proceeded up the river to ascertain where these boulders came from. They had not gone far before they came to a large, well defined and inexhaustable miue, from which they took and packed down a quantity of ore, and in a rude furnace, put in sixty-nine pounds of it and smelted out thirty-three and a half pounds of pure tin, as they inform us here. If no unforseen accident happens to them, that same tin, together with some of the ore that they took from the mine, will arrive here on the next steamer from Mazatlan, when all parties wishiag to see it can have the opportunity.

We are further informed that in the immediate vicinity of the mine, there is an over abundance of good oak timher, for wood for smelting and other purposes. Also a river of pure and limpid water flowing through the mine.

The parties have denounced, taken up and located this mine for the Company, under the laws, rules and regulations of Mexico. The name of the association is the Durango Mining and Land Company.—Many in the city that are interested in this mine, knew all ahout it some time ago, and I should not have writteu this had not the discovery heen made puhlic through your pnper, hut have left it for other parties to have made the announcement on the return of the men from the mine.

Yours Truly, I. S. BROWN.
No. 430, Montgomery street, San Francisco.

LEAN MINES.—During the past year, the lead mines in Virginia, N. T., produced enough for ten millions of ounce halls; nnd the preseat year the quantity will he doubled.

TAXING.—The hill taxing stock dealing is equal to levying five million dollars per annum on the New York Brokers' Board.

The Coal Desulphurizing Experiments at Stockton, of which we made brief mention two weeks since, appears thus far to promise success. The Stockton *Independent* copies our remarks upon the subject, and adds the following further particulars with regard to the experiments in progress :—

The result is now known and is highly successful. Its usefulness in forging iron was tested yesterday by Adams & Howe, and also by Graves & Chism, blacksmiths, Main street, and it was found somewhat slower in producing a welding heat than the bituminous coal imported. From the naturally light character of *lignite* it cannot be expected to equal an article of greater density and weight on the forge hearth; but as an article for fuel in family dwellings we can perceive no good reasons why the light quality of lignite coal procured comparatively near the surface of the ground, should not come into general use after the sulphur is removed. Heretofore, the use of coal brought from the mines at Corral Hollow has been objectionable in two particulars only—the first being the fact that, as a general thing, it is smashed up into the consistency of fine gravel—altogether too fine for use without great labor and waste ; and the second objection has been its almost unendurable sulphuric smell. The latter objection to the coal, is evident, can be completely removed at a trifling cost, and the former will be remedied as the plans and process of excavating at the mines are improved. It is also more than probable that the character of the coal will become more solid the deeper the veins are penetrated, and thereby be better fitted for exciting intense heat, than the quality now found. The experiment of Mr. Keating in depriving the article of its volatile matter—sulphur—does not by any means alter the main substance, so that it can more effectively resist the force of the blast from the forge bellows; neither does it crumble the coal into finer particles, or alter its appearance in the least from what it was before being subjected to the process of desulphurizing, Blacksmiths object to the coal experimented upon, only on the ground of its lightness. A heavy blast will, they say, blow it from the nozzle of the bellows and scatter it on the hearth. But this does not make it objectionable at all for parlor and for kitchen uses. The result aimed at—depriving it of its sulphur—has been reached on a small scale, but by what particular process we have been unable to ascertain. We have the word of the gentleman who has conducted the experiment as authority for stating that the process can as easily and as well be conducted on a scale of magnitude as in the limited form of an experiment. Chemicals and heat are means used; but the particular temperature of the heat applied, or the kind and proportion of the ingredients used, it is not at present in our power to state.

A Water Engine—A California Invention.—Mr. Thomas Hardsbrow, the inventor of the "Challenge Pump," which took the gold medal at the World's Fair in London, has just completed another very important invention, which is spoken of as follows by the Sacramento *Bee:* —

The invention is embodied in the form of a hydrostatic engine—run entirely by the pressure (not volume) of water—works cold water as an expansive agent, and does it most admirably. Messrs. Hansbrow and Redding intend having one constructed for practical exhibition of its workings at the Fair of the San Francisco Mechanics' Institute, to be held in September next. They have now a small tin model running at the store of Mr. Hansbrow, on K street, between Second and Third streets, which, though rudely constructed, exhibits the power of the engine, it being a man's work to stop the motion. It will supersede steam wherever a pressure of water can be obtained. In this respect it will be especially serviceable and invaluable throughout the mining regions of California and the Pacific coast, as well as in our cities where there is a supply of water from public works. The inventors intend building the engines immediately, and introducing them into use. Intelligent mechanics who have examined the rough model unite in pronouncing it the greatest invention of the age, the sewing machine not excepted; and like all great inventions, it is simplicity itself.

Ingenious.—We noticed, says the Gold Hill *News*, an ingenious little machine at the North American claim, the handiwork of the engineer. It is a simple concern which records the number of revolutions which the engine makes. It has the capacity of counting up to one million. It has been attached to the engine less than two weeks, but up to the time we were there yesterday it had recorded 303,115 revolutions which the engine had made during that period.

The Mechanics' Fair.—The approaching Mechanics' Fair is beginning to excite considerable interest among our mechanics generally throughout the State and adjoining Territories. Inventors, particularly, should bestir themselves in season. California can make a better exhibition in that line, considering the age of our community, than any State in the Union. We hope to see every invention which has been brought out in the State, represented on that occasion. Aside from the general interest which will attach to such an exhibition, it will be the best possible advertisement to the inventors. The occasion will doubtless call out an unusual gathering from every part of the Pacific coast. There will be room and opportunity for all.

The Daily Dispatch is the title of an unpretending but pretty little sheet, which made its appearance on Monday last. In its present form it is intended to be devoted mainly to local matters ; but its proprietors, not doubting that their sheet will, ere long, rise to consequence and power, expect soon to enter the arena of general newspaper business. The *Dispatch* is published every evening, at 417 Clay street, by H. Wheelock & Co.

Buried Forests.—Extensive forests, covering valleys and hill-sides, are overturned, and the uprooted trees form a gigantic barrier which prevents the flowing off of the waters. An extensive marsh is formed, particularly well adapted for the various kinds of mosses. As they perish, they are succeeded by others; and so for generations, in unceasing life and labor, until in the course of time the bottom, under the influence of decay and the pressure from above, becomes turf. Far below lies hard coal; the upper part is light and spongy. At various depths, but sometimes as much as twenty feet below the surface, an abundance of hogwood is found, consisting mostly of oak, hard and black as ebony, or of the rich chocolate-colored wood of the yew. Such ancient forests every now and then rise in awe-inspiring majesty from their graves. The city of Hamburg, its harbor and the broad tracts of land around it, rest upon a sunken forest, which is now buried at an immense depth below the surface. It contains mostly limes and oaks, but must also have abounded with hazel woods, for thousands of hazel nuts are brought to light by every excavation, not exactly made for nuts. The city of New Orleans, it has been recently discovered, is built upon the most magnificent foundation on which a city ever rose. It was the boast of Venice that her marble palaces rested in the waters of the Adriatic on piles of costly wood, which now serve to pay the debts of her degenerate sons; but our Venice has not less than three tiers of gigantic trees beneath it. They all stand upright, one upon another, with their roots spread out as they grew; and the eminent Sir Charles Lyell expresses his belief that it must have taken at least eighteen hundred years to fill up the chasm, since one tier had to rot away to a level with the bottom of the swamp before the upper could grow upon it.

Tides of the White Sea.—The question as to the existence of a diurnal periodicity in the tides of the White Sea may now be considered as decided in the affirmative; for we find in the last number of the *Bulletin* of the Imperial Academy of Sciences of St. Petersburg a short notice of a report presented by Messrs. Lenz and Kupffer, in which the fact is stated for the first time. An officer of the Corps of Pilots at Archangel, has made a long series of observations, and drawn up tables of the results, which have been laid before the Academy, and discussed by the reporters, who affirm his conclusion that a diurnal periodicity in the flux and reflux of the tides in the White Sea is thereby demonstrated. The report and a selection of the tables are to be published; but, we fear, Russian only, and in a Russian periodical.—*London Athenæum, January*, 1864.

Wood is often petrified by carbonate of lime and occasionally whole trunks are changed to stone. The specimens show well the grain of the wood, and some are quite handsome when nicely polished.

The late greenback movement in Nevada Territory has been squelched by the action of the merchants and bankers.

Blanks for Secretaries.—Blanks, suitable for filling out for advertising, furnished gratuitously to advertisers in the Press, upon application to the office.

Ages of Stone and Bronze.—The attempts of the Swiss geologists and archæologists to estimate definitely in years the antiquity of the bronze and stone periods, although as yet confessedly imperfect, deserve notice, and appear to me to be full of promise. The most elaborate calculation is that made by M. Morlot, respecting the delta of the Tiniere, a torrent which flows into the Lake of Geneva near Villeneuve. This small delta, to which the stream is annually making additions, is composed of gravel and sand. Its shape is that of a flattened cone, and its internal structure has of late been laid open to view in a railway cutting 1,000 feet long and 32 feet deep. The regularity of its structure throughout implies that it has been formed very gradually, and by the uniform action of the same causes. Three layers of vegetable soil, each of which must at one time have formed the surface of the cone, were cut through at different depths. The first of these was traced over a surface of 15,000 square feet, having an average thickness of 5 inches, and being about 4 feet below the present surface of the cone. The upper layer belonged to the Roman period, and contained Roman titles and a coin. The second layer, followed over a surface of 25,000 square feet, was six inches thick, and lay at a depth of 10 feet. In it were found fragments of unvarnished pottery and a pair of tweezers in bronze, indicating the bronze epoch. The third layer, followed for 3,500 square feet, was 6 or 7 inches thick, and 19 feet deep. In it were fragments of rude pottery, pieces of charcoal, broken bones, and a human skeleton having a small, round, and very thick skull. M. Morlot, assuming the Roman period to represent an antiquity of from 16 to 18 centuries, assigns to the bronze age a date of between 3,000 and 4,000 years, and to the oldest layer, that of the stone period, an age of from 5,000 to 7,000 years.—*The Geological Evidence of the Antiquity of Man, by Sir Charles Lyell.*

How to Prevent Wet Feet.—A writer in the *Mechanics' Magazine* says : "I have had three pairs of boots for the last six years, and I think I will not require any more for the next six years to come.—The reason is that I treat them in the following manner : I put a pound each of tallow and resin in a pot on the fire ; when melted and mixed, apply it hot with a painter's brush until neither the sole nor upper will soak any more. If it is desired that the boots should immediately take a polish, dissolve an ounce of wax in a teaspoonful of turpentine and lampblack. A day or two after the boots have been treated with the resin and tallow, rub over them this wax and turpentine, but not before the fire. Thus the exterior will have a coat of wax alone and shine like a mirror. Tallow and grease become rancid, and rot the stitching or leather ; but the resin gives it antiseptic quality, which preserves the whole.—Boots or shoes should be so large as to admit of wearing cork soles. Cork is so bad a conductor of heat that with it in the boots the feet are always warm on the coldest stone floor."

Pulverizing and Mixing Iron Ores, Fluxes and Fuel previous to Smelting.—A patent has been granted to Mr. John Thomas, of Batterse, for improvements in treating ores, which consists in pulverizing the matters to be operated on if not already pulverized, and then mixing them with the following ingredients in the proportions named : Sand, or ores reduced to a state of sand, two parts ; clay, two parts ; chalk, one part ; coal, or other fuel, one quarter part. These proportions may, however, be varied according to the quality of the ore, but they must be such that a brick may be formed of the materials used. After they have been well mixed and amalgamated, they are to be formed into blocks or lumps, and then dried and calcined by burning, care being taken during the burning to prevent contact with the air. After calcination the mass is ready for reducing in the manner ordinarily followed in smelting iron ores.

The Mining and Scientific Press.—This work, published weekly in San Francisco, contains a record of all mining transactions in California, and numbers among the contributors to its columns many scientific and practical writers. Brokers and persons interested in mining stocks will find it much to their advantage to become subscribers.—*Victoria Evening Express.*

The crop of maple sugar at the North will this year exceed 25,000,000 pounds, and will go far towards supplying the deficiency caused by the non-production of sugar at the South.

The Mendocino *Democrat* says that the hay crop in Ukiah valley is not as good as our farmers anticipated it would be some time ago. Those that have commenced to harvest their hay say it will not be a half crop.

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and the Place of Business of the Corporation if it is not in San Francisco.

REVISED EVERY ISSUE.

Advertised in the Mining and Scientific Press

AND OTHER SAN FRANCISCO JOURNALS*.

Adelaide Consolidated, 50c and 50c .....Adv. May 28—Sale June 27*
Agamemnon, Inyo.....Adv. May 28—Sale July 6*
Augusta, Augusta, 12½ cents.....Adv. May 21—Sale July 25*
Astor, Ravenswood, 50 cents.....Sale June 29*
Amador Cons., Amador, R. R., $5.....Sale June 15
Amagoza, Salt Spring, four dollars.....Sale June 11
Agmemnon, Kelsey, 5c, 3c and 5c.....Sale June 14
Arlington, St. Mary's, 10 cents.....Sale June 8
Arizona Cons., Eureka, 20 cents.....Sale June 15
Argent Oro, Reese River, $1.....Sale June 18
Alhambra, $1.....Adv. May 12—Sale June 10
Altaville Quartz, Calaveras county, $2.....Sale June 14
Alemania, San Antonio, $2.....Sale June 18
Alhambra Summit, $1 .....Sale June 10
Arizona, Weaver, $1.....Adv. June 13—Sale June 25
Arizona, Weaver, 50 cents.....Sale June 13
Antelope, Low Divide.....Sale June 13
Arbitrios, Batopilas, Mexico, $2.....Adv. May 17—Sale May 28
Apache Chief, La Paz, 50 cents.....Sale June 13
Ancho, Inyo.....Adv. May 17—Sale June 16
Ætna, Esmeralda, $2.....Adv. May 20—Sale June 22
Antrim Cons. Slate Range, $1.....Adv. May 21—Sale June 22
Augusta, Calaveras county, $1.....Adv. June 25—Sale July 13
Alameda Coal, Alameda county, $1.....Adv. June 25—Sale July 9
American.....Annual Meeting, June 14
Appollo, Silver Mountain.....Sale July 5
Apache Wide West, La Paz, 50 cents...Adv. June 27—Sale July 8
Apollo, R. R.....Annual Meeting July 4

Baltimore, Alpine county, 25c.....Adv. June 25—Sale July 15*
Brooklyn, Reese River, 50c.....Adv. July 2—Sale July 16*
Blue Jacket, Devil's Gate, 25 cents.....Adv. June 25—Sale July 9*
Blue Dragon, Inyo, 20 cents.....Adv. June 25—Sale July 29*
Brewer, Silver King, 15 cents.....Adv. June 25—Sale July 7*
Butte, Reese River, 50 cents.....Sale June 4*
Big Blue Lead Cave, $1.....Adv. June 15—Sale June 27
Baja California, San Antonio, $1.....Sale June 7
Black Ledge, Reese River, 50 cents.....Adv. July 2—Sale July 16
Black Ledge.....Annual Meeting July 4
Bay, Clayton, 50 cents.....Sale May 31
Buffalo, Calaveras, 50 cents.....Sale June 10
Buckeye, Devil's Gate, $3.....Adv. May 6—Sale June 13
Bella Vista, Cacachitas, $1.....Sale June 11
Black Prince, R. R., 50 cents.....Sale June 20
Beach & Paxton, Virginia, $3.....Adv. July 6—Sale July 23
Black Rock Ledge, R. R., $1.....Adv. June 15—Sale July 2
Barreteros, Gosala, Mexico, $5.....Adv. June 15—Sale June 29
Butte, Santa Clara, $1.....Adv. June 18—Sale June 29
Bajazett & Golden Era Cons., $2.....Levied May 13, Virginia
Blue Ledge, Lovell, R. R., 50 cents & 50 cents.....Sale June 25
Badger, Washington, 25 cents.....Adv. June 11—Sale July 1
Ben Bold, Washington, 15 cents.....Adv. June 24—Sale July 15
Baltic.....Meeting June 6, Virginia
Bixler, $2.....Adv. June 27—Sale July 18
Bostio, Ohio, $2.....Adv. June 18—Sale July 29
Bella Vista, Cocachilas.....Adv. May 23—Sale June 11
Baltimore American, Gold Hill, $5.....Adv. July 1—Sale July 15
Beard & Seaver, R. R., 50c & 50c.....Adv. June 2—Sale July 2

Coso, Tulare county, $1.....Adv. July 2—Sale July 16*
Garroll, Reese River, 50c.....Adv. July 2—Sale July 16*
Charter Oak, Santa Catalina.....Adv. June 4—Sale July 6*
Caledonia.....Sale June 18*
Cortez, Cortez district, $2.50.....Sale June 20*
Crown Point, Roese River, 50 cents.....Sale June 15*
Cedar, Esmeralda.....Annual Meeting June 6
Caldwell, $1.....Adv. May 15—Sale June 15
Chicago, Reese River, $1.....Sale June 11
Chicago, Reese River.....Annual Meeting July 4
Crockett, Esmeralda, $2.....Sale June 9
Chrysopolis, Virginia, $1.50.....Sale June 10
Catalina Cons., San Pedro, 10 cents.....Sale June 11
Cox & Rose, Reese River.....Annual Meeting, June 6
Copp, Sierra.....Sale June 11
Cole.....Sale June 8
Cedar Hill.....Special Meeting June 4
Ginnabar, Virginia, 50 cents.....Sale June 18
Grown Lead, Mariposa county, $1.....Sale June 18
Clinton, R. R., $1.....Sale June 6
California, La Paz.....Sale June 15
Glinton, R. R., $1.....Adv. May 25—Sale June 6
Genter, Empire, 25 cents.....Adv. June 15—Sale June 26
Coral Hill, Amador.....Annual Meeting June 8
Gollombe, Gold Hill, 50 cents.....Adv. May 17—Sale June 17
Consolacion.....Meeting June 13
Consolacion, Simaloa & Durango.....Adv. May 18—Sale June 4
Cosmopolitan, Gopher, 50 cents.....Adv. June 18—Sale July 2
Gaselli, Indian Springs, 25c & 25c.....Adv. May 20—Sale June 22
Crockett Cons., $2.....Adv. May 20—Sale June 9
Central.....Special Meeting, June 7
Chrysopolis, Low Divide, 30 cents.....Adv. May 24—Sale June 22
Coral, Amador.....Adv. June 27—Sale July 9
Galedonia, Gold Hill, $3.....Adv. June 24—Sale July 6
Calaveras Iron Mountain, Cornwall, 50c..Adv. June 28—Sale July 13
Crown Lead.....Annual meeting June 7
Comet, 10 cents.....Adv. June 25—Sale July 6
Glueo Senora.....Meeting June 27
Chrysopolis, Low Divide, 25 cents.....Levied May 25
Colegio.....Meeting June 7
Cossette, Arizona Territory, $1 & $1..Adv. May 29—Sale June 29
Ciruelo Gordo, San Antonio, $1.....Adv. July 2—Sale July 14
Commercial, Santa Catalina, 10 cents...Adv. July 2—Sale July 16

Diamond, Santa Catalina.....Adv. June 4—Sale July 6*
Dunkirk, Reese River, $1.....Adv. May 18—Sale June 4
Diann, Reese River.....Annual Meeting July 4
Don Juan, Mochleabue, Mexico, 15 cents.....Sale June 21
Diamond.....Adjourned Meeting June 6
Dan'l Webster, Devil's Gate, $1.....Adv. June 25—Sale July 16
Del Rey.....Annual Meeting June 5
Daney.....Quartely Meeting, June 6
Downey.....Meeting June 30
Daniel Webster, Sac., 30 cents.....Adv. May 25—Sale June 25
Don Juan, Silver Mountain, 50 cents...Adv. June 25—Sale July 9

Empire, Rock Spring, 5c.....Adv. July 2—Sale July 16*
Excelsior, Reese River District, 25 cents.....Levied March 22*
Equal Chance.....Annual Meeting June 13*
Enterprise, El Dorado Canon.....Caution—Certificates sold*
Eureka Mill, Big Creek, five dollars.....Sale June 11*
Exchange, Lander county, 25 cents.....Sale June 22*
El Dorado, Virginia, $2.....Adv. June 8—Sale June 22
El Dorado, Virginia, $2.....Sale June 11
Eclipse, Reese River.....Sale June 10
Ethan Allen, $1.....Sale June 4

Those marked with an asterisk (*) are advertised in this paper.

Emilia, Guerrero, 25 cents.....Sale May 30
El Alamo de San Antonio, San Auto., $1 Adv. June 10—Sale June 25
Exchange, Low Divide, 13 cents.....Levied April 21
Eastern, R. R.....Annual Meeting June 6
Eclipse, Russ, $5.....Sale June 25
Empress, Gold Hill, $3.....Sale June 11
Empire, Santa Cruz, 25 cents.....Sale June 22
El Dorado, Virginia, $2.....Sale June 22
El Dorado, Virginia, $2.....Sale June 11
Esmeralda.....Annual Meeting, June 6
Eagle, Quartz, Amador county, $1.....Sale June 6
Evening Star, Trinity, 50 cents.....Meeting, June 30
Evening Star, Trinity, $5.....Adv. June 20—Sale June 30
East Range, Oro Fino.....Adv. May 14—Sale June 14
El Toro, Sinaloa, Mexico, $1.....Adv. May 14—Sale June 14
Echo, Gold Hill, $3.....Adv. June 16—Sale July 2
Eclipse, Sierra, 50c.....Adv. June 16—Sale June 29
El Taste, Sonora, Mexico, $5.....Adv. June 16—Sale June 27
Emilia, State of Guerrero, Mexico, 25c.....Adv. May 18—Sale June 6
Erie.....Meeting June 20, Austin, N. T
El Taste, Sonora, Mexico, $4 37½.....Adv. June 20—Sale June 30
Eastern, R. R., $1.....Adv. May 30—Sale June 29
Empire State, Contra Costa county, 10c.....Levied

Fork, Blue Mountain.....Adv. June 17—Sale July 6
Flora, Reese River, ...Annual Meeting, June 6
Fortuna, R. R., $1.....Adv. May 17—Sale June 14
Florida, R. R.....Special Meeting, June 1
Franco American, San Antonio, $10 & $1.Adv. May 18—Sale June 18
Fairview.....Adv. May 16—Sale June 15
Fellows, Quartz, $1.....Sale June 11
Flor de San Antonio, Mexico, $1½.....Adv. June 25—Sale July 7
Federal & Republic, Virginia, 50 cents....Adv. May 27—Sale June 27
Fairview.....Adv. May 27—Sale June 15
Fairview, R. R., 25 cts.....Adv. July 2—Sale July 16
Fairview.....Adv. June 1—Sale July 1

Gertrude, R. R., 25c.....Adv. July 2—Sale July 16*
Gold Rock, Calaveras county, 50c.....Adv. July 2—Sale July 22*
Great Central.....Adv. May 20—Sale June 29*
Grafton, Reese River, 30 cents.....Adv. May 23—Sale June 15*
Great Central Tunnel, Virginia, 40c.....Adv. June 18—Sale July 6*
George Leet, Reese River, 50 cents.....Sale June 15*
Great Central, Weaver.....Sale June 8*
Green Mouster, Inyo, $1.....Sale June 22*
General Grant, Slate Mountain, 50 cents.....Sale June 11
Governor Downey Cons., Buena Vista, $1.....Adv. June 23
Garibaldi, Aurora.....Sale June 8
Green, Gold Hill.....Annual Meeting June 4
Germania, No. 2, 20 cents.....Sale June 14
Good Return, Inyo, 25c and 50c.....Sale June 8
Goodwin, Simpson Park, 25 cents.....Sale June 18
Goodwin, Simpson Park, 25 cents.....Sale June 10
Guadalupe de Los Angeles, Durango, $1.....Sale June 21
General Hooker, 50 cents.....Sale June 16
General Roseerans, Big Creek, 25 cents..Adv. May 31—Sale June 15
Gem Hill, Summit, 25 cents.....Sale June 10
Golden Chele, Amador.....Annual Meeting June 6
Gov. Seymour, R. R., 50 cents.....Adv. June 23—Sale July 7
Gov. Seymour.....Annual Meeting July 4
Good Hope, Alpino, 75 cents.....Sale July 18
Gold Hill, Gold Hill, 50c, 50c & 50c...Adv. May 28—Sale June 30
Great Cons., Boise River, Placer.....Adv. May 28—Sale July 16
General Grant, Slate Mountain, 50c.....Adv. May 31—Sale June 11
Gold Hill Big Ledge, Gold Hill, $5.....Adv. June 30—Sale July 15

Henry & Bernard, Weaver, 20c.....Adv. July 2—Sale July 8*
Hyack, Reese River, 20c and 30c.....Sales May 25 and June 15*
Hawley, Devil's Gate.....Sale June 8
Humboldt, Sierra, $2.....Sale June 4
Heidleberg, Tomales Pais, 10 cents.....Sales June 8
Hornitos, Mariposa, $1.....Sale June 8
Hawley, Lyon county, $2½.....Sale June 4
Humboldt, Humboldt county, $3.....Adv. May 28—Sale June 15
Highland Chief, Raymond, 25c.....Adv. June 14—Sale July 2
Hartford, Gold Hill, $1.....Adv. June 7—Sale July 18
Henry Clay, Great Mogul, 50 cents.....Auv. May 23—Sale June 25
Halleck, Monotor.....Annual Meeting June 21
Hale & Norcross.....Adv. June 27—Sale July 16
Harker, R. R.....Annual Meeting July 4
Honest Miner, R. R.....Annual Meeting July 4

Illinois, Lauder county, 50 cents.....Sale June 18*
Itasca, Reese River, 40 cents.....Sale June 22*
Ironsides, Esmeralda, 25 cents.....Sale June 10
Insurance, Virginia, $1.....Sale June 20
Iowa, Esmeralda.....Sale July 2
Iurbide.....Quarterly Meeting, June 6
Iowa, Esmeralda, $2.....Sale June 13
Imperatrice, Eugene, Blue Mountain, 30c..Adv. June 11—Sale June 22
Independent, R. R., $5.....Levied May 6, Gold Hill
Independent, R. R., $1.....Adv. June 21—Sale July 9, Gold Hill
I X L, Silver Mountain, 50 cents.....Adv. June 25—Sale July 16
Indepeudent, Mt. Diablo.....Annual Meeting June 20

Joe Douglas, Reese River, 50 cents.....Adv. June 18—Sale July 2*
Josephine, Coso, $1.....Sale June 27
Jo Lane, R. R.....Annual Meeting July 4

Keokuk, 10 cents.....Adv. June 25—Sale July 13*
Kelsey, El Dorado county, 25c.....Adv. May 14—Sale June 13*
Kelsey, El Dorado county.....Sale June 13*
Kentucky, Mine. Felix, 50 cents.....Adv. June 23—Sale July 10

La Favorita, Montezuma, Mexico.....Adv. June 4—Sale June 18*
Lady Adams, R. R., 20c.....Adv. July 2—Sale July 16*
Lord Byron, Devil's Gate, $1.....Adv. May 21—Sale June 4*
Lewis Cons., R. R., 25c.....Adv. May 28—Sale June 15*
Logan.....Sale June 8*
Laura Johnson.....Sale June 3
Los Cruzecitas, San Xavier, $6.75.....Sale June 13
Lafayette, Gold Hill, $5.....Adv. May 18—Sale July 1
Langhorne Cons., Summit, 50 cents.....Sale June 3
La Providencia, $1.....Sale June 6
Lone Star, Reese River.....Annual Meeting June 6
Lady Bryan, Flowery, $3.....Sale June 25
Lagunitas, Quartz, Siskiyou county, $1.....Sale June 25
Lyon & Leland Consolidated.....Sale June 4
La Gandelama, Durango, Mexico.....Sale June 15
Lochinvar, Gopher, 30 cents.....Sale June 25
La Blanca, Urés, 2½.....Sale June 22
Las Posas, La Paz, $1.....Adv. June 13—Sale June 25
La Posas, La Paz, 50c.....Sale June 13
Langhorne Cons, Summit, 50c.....Sale June 3
Legal Tender, Amador, $1.....Sale June 22
Live Oak, Washington, 25c.....Adv. June 11—Sale July 1
Lone Star, R. R., $1.....Adv. May 21—Sale June 22
Laura Johnson, Soledad, 50 cents.....Adv. June 23—Sale July 9
Lone Star, R. R., $1.....Adv. May 21—Sale June 22
La Providencia, La Paz, $1.....Levied May 16
La Providencia, ...Special Meeting, June 10
La Providencia, La Paz, $1.....Adv. June 27—Sale July 10
Lancaster.....Annual Meeting June 14
Lady Bell, Del Norte county, 10c.....Adv. July 6—Sale July 18
Lonisiana, R. R.....Sale June 21

Mohawk, Reese River, 50c.....Adv. July 2—Sale July 16*
Mt. Eden, Gold Hill.....Caution, Adv. June 4*
Meder, Santa Cruz county, 15c .....Adv. July 9—Sale July 25*
Monarch, R. R., 25c.....Adv. July 2—Sale July 16*
Mechanics, Clayton, 5 cents.....Adv. June 25—Sale July 13*
Mount Zion, Clayton, 50 cents.....Adv. June 18—Sale July 6*
Mount Vernon, Smoky Valley, 50 cents..Adv. June 11—Sale June 25*
Minnehaha, Reese River District, 25 cents.....Levied March 22*
Mosquito, Calaveras County, $5 ..... Adv. June 11—Sale July 1*
Morning Gall, Big Creek, 50 cents.....Adv. June 11—Sale June 29*
Mountain Mary, Silver Mountain, 25c..Adv. May 28—Sale June 16*
Mount Eden, Gold Hill District, 50c.....Adv. July 2—Sale July 18
Melones & Stanislaus, Carson Hill, $2.50.....Sale June 18
Minerva, Virginia, $25.....Sale June 4
Monitor, Silver Mountain, $1.....Sale June 10
Mina Prieta, Ures, $40.....Sale June 18
Mountain Queen, R. R.....Sale June 11
Morning Star, Great Mogul, 25 cents, 50cents, & 30 cents.Sale June 14
McLellan, Virginia, 2½.....Sale June 11
Melones Sink, Calaveras county, 15 cents.....Sale June 25
Monster, Cons. 25 cents.....Adv. June 17—Sale July 2
Monte Cristo, Gold Hill.....Adv. June 15—Sale July 1
Melones & Stanislaus, Carson Hill, $2.50...Adv. June 4—Sale July 18
Mandot, Del Norte. 50 cents.....Adv. June 15—Sale June 27
Mary and Estella, 15c and 10c.....Levied Jan. 19 and Feb. 20
Molien, Inyo.....Adv. May 17—Sale June 16
Manchester, Monitor, $1.....Adv. June 21—Sale July 6
Mina San Felipe.....Adv. May 21—Sale June 24
Mina San Felipe, 5 cents.....Levied May 12
Minerva Gold Hill, Gold Hill.....Adv. May 21—Sale June 4
Mineral Mountain, Carson Hill.....Sale June 15
Mountaineer, Humboldt county, 50 cents...Adv. June 23—Sale July 6
Musadom, San Antonio, 50c.....Adv. June 25—Sale July 13
Molitor, R. R., $2½.....Adv. June 22—Sale July 9
Marble Valley, Ohio .....Special Meeting June 11
Mina Rica de Las Flores, Calaveras county..seven assessments $8
Mineral Hill, White Mountain, 40c & 50c..Adv. June 1—Sale July 1
Minna Prieta, Ures, Mex., $40.....Adv. June 3
Mohawk Chief, Alpine.....Special Meeting June 8
Moonlight, Indian.....Annual Meeting June 16
Monitor, R. R.....Annual Meeting July 4
Mina Prieta, Ures, Mexico, $10.....Adv. June 3—Sale June 18

North Star, Santa Catalina.....Adv. June 4—Sale July 6*
Nicolaus, Reese River, 25 cents.....Adv. May 28—Sale June 15*
Noonday, Contra Costa county, 20 cents.....Sale June 22*
North Potosi, Virginia, $12.50.....Sale June 11
North Star, Reese River. $2.....Adv. July 1—Sale July 15
North Star, Reese River.....Annual Meeting July 4
Nueva Fortuna, Cacachilas, 50 cents...Adv. May 18—Sale May 31
New England Cons., Santa Catalina.....Sale June 1
Nevada, Justice, $20.....Levied April 9—Virginia
New Era.....Annual Meeting June 6
Nevada, R. R.....Sale June 7
Nonpariel, Tuolumne county, $5.....Sale June 14
North Eclipse, Russ, 10 cents.....Sale June 20
North Lawrence & Chilford Cons. 50c....Adv. June 15—Sale July 11
Norton, $1.....Adv. May 18—Sale June 18
Nelson Consolidated. Gold Hill, $2.....Adv. June 24—Sale July 7
New Year Diggings, Tuolumne co., $1½..Adv. June 28—Sale July 13
North Potosi, Virginia.....Sale June 11
North Americau.....Annual Meeting June 6
North Amerieau, Virginia.....Annual Meeting June 6
Nevada, R. R.....Annual Meeting July 4

Orinoco, Reese River, 50c.....Adv. July 2—Sale July 16*
Ontario & Webster, Montgomery .....Annual Meeting June 20*
Ontario & Webster, Montgomery .....Adv. June 25—Sale July 9*
Orient, Inyo.....Adv May 28—Sale July 6*
Ophir of the Colorado, El Dorado C., $2..Adv. June 18—Sale July 2*
Ophir, El Dorado Canon, 15 cents.....Ad. June 8—Sale June 20*
Oxford Beta, Silver Hill, 50 cents,.....Adv. June 18—Sale July 9*
Ophir of Colorado No. 1, Colorado.....Sale June 11*
Occidental, Soledad, 30 cents.....Sale June 15
Omega Gold Hill, Virginia, $5.....Sale June 4
Overman, $30.....Levied April 16—Gold Hill
Original Crœsus, Sierra, $1.....Sale June 20
Original Crœsus, Sierra, $3.....Sale June 20
Old Hickory, Amador, Reese River, $1.....Sale June 10
Oceola, Summit, 25 cents.....Sale June 10
Ophir of the Colorado, Arizona, $2. Advertised June 18—Sale July 2*
Olive City, Weaver.....Sale June 13
Oxford Beta, Esmeralda, 50 cents.....Adv. May 16—Sale June 29
Omega Gold Hill, Gold Hill.....Adv. May 21—Sale June 4
Olympic, Big Creek, 50 cents.....Adv. June 25—Sale July 12
Oregon, R. R.....Annual Meeting July 4

Peaslee & Sparks, R. R., 25c.....Adv. July 2—Sale July 16*
Potomac, Reese River, $1.....Adv. June 25—Sale July 11*
Point Arena Petroleum, Mendocino county....An. Meeting June 25*
Palmyra Consolidated, Palmyra.....Sale June 13*
Prima Donna, Devil's Gate District.....Sale June 15*
Pena, Lower California.....Meeting June 8*
Pearson, Lauder county, 25 cents..... ... .Levied March 30*
Peacock, Reese River, 25 cents,.....Sale June 22*
Progress, Reese River, $1.....Sale June 18
Pride of Nevada, Reese River, 25 cents.....Sale June 14
Paget, El Dorado county, 50 cents.....Sale June 15
Pactolas, Devil's Gate, 50 cents.....Sale June 4
Peruvian, Devil's Gate, 50 cents.....Sale June 15
Progress, Reese River, $1.....Adv. June 4—Sale June 18
Peytona, Virginia, $2.....Adv. June 17—Sale June 30
Patrochila & Dolores, Chihuahua, $6....Adv. May 19—Sale June 12
Porter, Virginia.....Annual Meeting June 4
Peninsula, San Antonio, 25c.....Auv. June 25—Sale July 13
Pride of Nevada, R. R., 25c.....Adv. June 4—Sale June 17
Pioneer Coso, Coso.....Annual Meeting July 6*

Queen of Antilles Cons, Lander, 25c.....Levied March 30*
Queen of the Mountain, Big Creek, 25 cents.....Sale June 15

Rose Mallida, Santa Catalina.....Adv. June 4—Sale July 6*
Refugio, Chihuahua.....Adv. May 21—Sale June 21*
Rose Linda M. & M. Co., Amador co., 50c.....Adv June 1*
Royal Eagle & Cliff, Gold Hill District.....Sale June 15*
Rubicon 1, 2, 3 and 4, Keys district...Adv. May 23—Sale June 17*
Rubicon No. 2, Keys.....Sale June 7*
Rubicon, No. 3, Keys, 10 cents.....Sale June 14*
Rubicon. No. 4, Keys, 10 cents.....Sale June 14*
Revenue, Reese River, $1.....Sale June 18
Rockwell, Ravenswood, 50 cents. .....Adv. May 17—Sale June 4
Rose, Humboldt, $1.....Sale June 15
Rhode Island, Keys, 10 cents.....Sale July 12
Raba, R. R., 25 cents.....Levied March 31
Rancharia, Quartz ....Meeting, June 6
Regima, Inyo, 15 cents.....Sale June 17
Red Cap, Amador, 50 cents.....Adv. June 15—Sale July 11
Relief, 10 cents.....Levied May 19
Roanoke, Illinoistown.....Adv. May 20—Sale June 4
Rochester, Cons.....Annual meeting June 21
Reese River, 25 cents.....Adv. May 21, Sale June 27
Rancheria, La Paz.....Adv. May 24—Sale June 25
Rambler, Slate Range, 50 cents.....Adv June 14—Sale June 25
Rio Chico, Alamos, Mex., $1½.....Adv. June 16—Sale June 27
Real del Minos.....Annual meeting, June 16
Real del Monte Cons., Esmeralda.....Adv. April 22—Sale June 16
Roasch, White Mountain, 40c & 50c.....Adv. June 1—Sale July 1

San Francisco, Rock Spring, 5c.....Adv. July 2—Sale July 16*
Sierra Madre, Rock Spriug, 5c.....Adv. July 2—Sale July 16*
Stars & Stripes, Rock Creek, Cal. co., 10c Adv. June 21—Sale July 9*
Star of Nevada, Reese River, 50c.....Adv. July 2—Sale July 16*
St. Lawrence, Inyo.....Adv. May 28—Sale July 6*
Suerte, Garmen Island, 25 cents.....Adv. June 25—Sale July 11*
Salt Spring Valley, Calaveras county....Adv. May 28—Sale June 11*
Siskiyon Lion, Siskyou county, 50 cents..Adv. June 25—Sale July 12*
San Lorenzo, Santa Cruz, 50 cents.....Adv. June 25—Sale July 11*
Summit Pass, Tuolumne county.....Annual Meeting June 14*
Segregated Crown Point, Gold Hill, $26.....Sale June 25*
Scorpion, Virginia district.....Sale June 11*
Silver Star, Virginia dist, 25 cents.....Adv. May 21—Sale June 8*
Smith & Martin, Reese River.....Sale June 13*

Salt Spring Valley, S. S. Valley, 10 cents...Sale June 1—Jenny Lind
Stonewall Cons., Last Chance Hill, $1.....Sale June 15
Salmas.....Sale June 0
Standard, Reese River, 50 cents.....Sale June 8
Sacramento & Meredith, Cedar Hill, $2.50.....Sale June 8
Sickles Colorado Prospecting, $50.....Levied April 16
Sutro, $1. .....Levied April 30—Virginia

San Francisco, Gold Hill, $3.....Sale June 28
San Marcial, Sonora, Mexico, $1.50.....Sale June 22
Sailor, Blue Mountain, 20 cents.....Sale June 15
San Carlos.....Quarterly Meeting June 8
San Jose de Ventanos, San Demas, $5.....Sale June 17
Slate Mountain, Slate Mountain, 25c.....Sale June 28
Stearns C. R. 25c.....Sale June 25
Santa Rosa, Virginia, $1 ...Sale June 8
South Gosun Point, $2 50 .....Sale June 18
Shell, Alpine.....Sale June 15
Silver Chele, R. R., $1.....Sale June 25
Silvaterra, La Paz, ...Sale June 15
Soledad, Soledad .....Annual Meeting June 13
Santa Cruz, San Antonio, $2 50, ...Sale June 28
St George, Storey Co., $1 .....Sale June 20
Santa Rosa, Inyo, 40c.....Sale June 20
South Eclipse, Russ, 10c .....Sale June 20
Santa Rita, Inyo 50c .....Sale June 20
Sonoma Co, R R, 25c.....Levied March 31
San Fran. Gold Hill, $1 .....Sale June 4
San Fran. Gold Hill, $1 .....Sale June 13
Soledad Hill, Soledad, $5.....Adv. May 19—Sale June 8
San Carlos, Inyo, $1 50 .....Sale June 8
Silver Age, Amador, 60c. .....Sale June 9
Siempre Vivia, Zarigoza Mex, $1 .....Sale June 20
Sirene, West Pt, 50c .....Sale June 29
Sisters, Augusta, 15 cents.....Adv. June 25—Sale July 25
San Francisco, Gold Hill and Virginia, $3...Adv. June 8—Sale June 28
Stearns, Reese River, 25 cents.....Adv. June 18
San Jose de Ventanos, San Demas, $5....Adv. June 5—Sale June 17
South Eclipse, Russ, 10 cents.....Adv. June 5—Sale June 20
Santa Rosa, Inyo, 40 cents.....Adv. June 5—Sale June 20
Scorpion, Virginia, 50 cents.....Adv. June 14—Sale June 29
Santa Rita, Inyo, 50 cents.....Adv. June 5—Sale June 20
Stonewall Cons., Last Chance Hill.....Adv. May 30—Sale June 15
Scott, Humboldt county, $1.50 and $1.....Adv. May 7—Sale June 8
Starlight, Humboldt county .....Sale June 22
Sierra .....Sale June 13
Santa Rosa de Ures, Ures, $1.....Adv. June 17—Sale July 1
Sunset, Amador, 50 cents.....Adv. June 15—Sale July 11
San Simon, San Luis Obispo county, 50c...Adv. June 25—Sale June 30
Shoshone, Lander county .....Annual Meeting June 8
Sierra Nevada, Virginia, $10.....Adv. June 18—Sale June 30
Sonoma, Alpine, 15 cents.....Adv. June 11—Sale June 25
Sonoma County, Cloverdale, 20 cents.....Adv. June 21—Sale July 9
San Carlos.....Annual Meeting June 8
San Nicolas, Durango, Mex., $6.....Adv. June 22—Sale July 2
Sierra Cons. 25 cents.....Adv. June 24—Sale July 11
St. Louis, R. R., $1.....Adv. June 24—Sale July 8
Salamander, Mill Valley, 10 cents.....Adv. May 24—Sale July 11
Sharron, Gold Hill, $1.....Adv. May 25—Sale June 15
Seneca, Cons., Virginia, $5.....Adv. June 27—Sale July 11
St. Paul, Amador.....Sale June 1
Siskiyou, Humboldt, $1.....Adv. June 25—Sale July 16
Sears, Reese River, 25 cents.....Adv. May 11—Sale June 4
Scely, Big Creek, 38 cents.....Adv. June 25—Sale July 13
Santa Rosa, Virginia, $1.....Adv. May 27—Sale June 8
Solambo, Tuolumne county, $1 & 50c....Adv. May 28—Sale June 29
Santa Teresa de Jesus, Sonora Mex., $2.....Adv. June 6
Sarah Frances, Webster, 10c.....Adv. July 6—Sale July 20
Stonewall Cons., Esmeralda .....Adv. May 31—Sale June 15
Sierra Nevada, Virginia, $10.....Adv. June 18—Sale June 30
San Marcial, Sonora, Mex., $1½.....Adv. June 2—Sale June 22
Sonoma Ledge, R. R., $1.....Adv. July 2—Sale July 16
Sublett, R. R, $1.....Adv. July 2—Sale July 16
Southern Light, R. R.,.....Annual Meeting July 4

Table Mountain, Calaveras county.....Annual Meeting June 13*
Tornado, Colorado, 50c and 50c..... .....Sale June 13*
Tuolumne, San Francisco District,.....Adv. June 11—Sale June 29*
Tellurium, Amador county, $1.....Adv. May 21—Sale June 11*
Tennessee, Echo, 50 cents.....Sale June 18
Teutonia, Gold Hill, $1.....Sale June 4
Tecolota, San Damas, $1.....Sale June 14
Tajo .....Ortly Meetg June 6
Tesoro .....Ortly Meetg June 6
Tesoro & James River Cons, R R, ...Sale June 10
Techattucup, Colorado, 40 c .....Sale June 18
Tranquillion, Fresno Co, 50c .....Sale June 7
Teeolote, San Dimos, Mex, $1 .....Sale June 14
Tolcander, Hamilton, 25c.....Sale June 21
Triunfo, San Antonio, 50 cents.....Adv. June 7—Sale June 17
Triunfo, San Antonio, $4.....Adv. May 14—Sale June 15
Tallulah, Sierra.....Special Meeting June 6
Tuiarc, Inyo, 40 cents.....Adv. June 16—Sale June 27
Tesoro, La Paz.....Adv. May 25—Sale June 25
Teutonia, San Miguel, 10 cents, 10 cents...Adv. May 25—Sale June 25
Teutonia, Gold Hill, $1.....Adv. June 19—Sale July 14
Tennessee, Echo, 10c, 10c, 10c, 40c & 50c. Adv. May 28—Sale June 18
Texas, R. R.,.....Sale June 21

United States, Lander county, 3c and 5c..Adv. May 21—Sale June 29*
Union No. 2, Reese River, $1.....Annual Meeting July 4
Uncle Abe, Inyo, 50 cents.....Sale June 7
United Cosmopolitan, French Corral, 25c .....Sale June 7
Utah, Esmeralda.....Annual Meeting June 6
Utah, Esmeralda.....Annual Meeting June 6
Upper Aisle, Inyo.....Adv. May 17—Sale June 16
Utica, Calaveras county.....Annual Meeting June 7
United States, R. R.....Meeting June 28
United States, Virginia, $1.....Adv. July 3—Sale July 16

Victoria, Reese River, 50c.....Adv. July 2—Sale July 16*

Valparaiso, Tuolumne, 4 assts, $3.....Sale June 15
Vivion, B S Springs, $1 25 .....Sale June 6
Victor Hugo, Gold Hill, $2.....Sale June 30
Veateh, Clifton, N. T., $1 and $2.....Adv. May 6—Sale June 6
Victor, Alturas co., I. T.....Annual Meeting June 13
Vulcan, Rocland, 8½c.....Adv. June 9—Sale July 20
Vesta, Santa Fe.....Adv. June 3—Sale July 2
Venus, Buena Vista.....Adv June 3—Sale June 20

Wyaudotte, Amador, N. T.....Annual Meeting June 28*

Wide West, Calaveras county.....Adv. May 28—Sale June 13*
Wilson, Echo, $1.....Adv. May 21—Sale July 2*
Whitton, Silver Mountain, 50 cents.....Adv. May 21—Sale June 9*
Wm. Mitchel, Silver Mountain.....Sale June 15*
Wide West, Calaveras county.....Stockholders' Meeting May 31*
Wall Street, Reese River, 50 cents..... Sale June 18*
Walipi, San Francisco District.....Sale June 11*
West End, Slate Mountain, 50 cents.....Sale June 20
White & Murphy, Virginia, $7.50.....Sale June 14
West Chance, Flowery, 37½ cents.....Sale June 13
White Cloud, Virginia, $1.....Sale June 22
Willow Cons, Summit, ...Annual Meeting July 4
Whitlatch, R R, $5.....Sale June 24
Wellington, Santa Catalina, 25c .....Sale June 21
Wisconsin, Virginia, $2 .....Sale June 11
Washington, Reese River, 50 cents.....Adv. June 18—Sale July 2
Washington, V. & G. D. Cons., Chelon, 25c..Adv. June 9—Sale June 19
Willow Cons.....Meeting June 19
Washington, R. R., 50 cents.....Adv. June 25—Sale July 9
Wide West, Esmeralda, $5.....Adv. June 24—Sale July 9
Wide West, Esmeralda, $5.....Adv. June 29—Sale July 9
Wm. Penn, Devil's Gate, $5.....Adv. May 28—Sale July 28
Whitman, Ind. Springs.....Annual Meeting June 7
White & Murphy, Virginia.....Adv. May 30—Sale June 14

Yellow Monster, Inyo, 25 cents.....Adv. June 5—Sale June 20
Yankee Blade, Reese River, $2.....Sale June 20
Yosemite, Reese River, 25 cents.....Sale June 4
Yosemite, Oro Fino, $3 .....Levied Feb 9
Yellow Monster, Inyo, 20c .....Sale June 20

Zenith, Mountain Ranch, 50 cents.....Sale June 18

San Francisco Stock and Exchange Board.—Prices Bid and Asked.

WASHOE STOCKS.	FEET.	SHARES.	VAL.	Saturday. BID.	Saturday. ASKED.	Monday. BID.	Monday. ASKED.	Tuesday. BID.	Tuesday. ASKED.	Wednesday. BID.	Wednesday. ASKED.	Thursday. BID.	Thursday. ASKED.	Friday. BID.	Friday. ASKED.
Ophir	1,400	16,800	300	975	1,020	760	975	850	890	825	850	830	840	830	840
Gould & Curry	1,200	4,800	500	3,4 0	3,700	3,300	3,600	3,300	3,450	2,700	3,300	2,850	2,950	2,915	3,000
Savage	800	800	2,000	1,700	1,900	1,500	1,575	—	1,900	—	1,850	1,475	1,600	1,500	1,550
Chollar	1,400	5,600	800	625	640	600	625	550	610	500	575	465	475	475	500
Potosi	1,400	2,800	500	850	950	—	—	—	950	—	—	—	950	—	—
Hale & Norcross	400	800	500	500	600	525	550	500	575	500	575	400	550	—	600
Sierra Nevada	3,000	3,000	500	56	58	45	57½	40	55	40	48	35	50	30	50
Daney	2,000	800	60	—	80	—	70	55	60	60	60	—	80	—	—
Burning Moscow	4,100	4,100	500	62½	64	50½	51	52	52½	52	54	43	44	47	50
North Potosi	2,000	2,000	250	79	81	81	83	77	78	70	75	62½	67½	80	82
Charles Cady	1,200	1,200	30	—	—	—	—	—	—	—	—	—	—	—	—
Iowa	1,200	1,200	1,000	—	—	—	—	—	—	—	—	—	—	—	—
El Dorado	1,600	1,600	500	—	—	25	27½	25	27½	25	25	—	—	20	26
Norton	1,600	1,600	50	—	—	—	—	—	—	—	—	—	—	—	—
Burnside	2,800	2,800	500	—	—	—	—	—	—	—	—	2	—	2	—
Adriatic	2,700	2,700	100	12½	15	12	13	13	16	12	14	11	12	11	12
Pride of the West	1,400	1,400	100	—	—	14¾	15	8	14	8	15	8	10	8	16
Imperial	188	4,000	500	148	150	135	150	140	152½	120	150	125	150	120	137½
Crown Point	600	1,200	100	—	—	—	900	—	—	—	—	—	—	—	—
Manhattan	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Seneca	—	—	—	12½	15	19	21	21	24	15	20	10	—	12	15
Mt. Davidson Inn'l.	1,000	1,000	200	—	—	—	—	—	—	—	—	—	—	—	—
Caledonia Tunnel	—	—	—	—	15	5	13½	5	15	5	14	—	—	—	20
Bajazet & G. Era	4,000	4,000	300	—	30	—	80	—	25	—	—	—	25	—	25
Cedar Hill tunnel	—	1,000	100	—	—	—	—	—	—	—	—	—	—	—	—
Gold Hill Qu'tz Mill	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ESMERALDA.															
Wide West	1,400	1,400	2,600	—	—	—	19	10	18	12	—	—	—	—	20
Antelope	1,200	1,200	500	100	—	—	—	—	—	—	—	—	—	—	162½
Esmeralda	1,000	1,000	1,000	3	5	—	—	—	—	—	—	3	—	3½	—
Real del Monte	4,400	4,400	400	45	47	45	46	44	47	37½	40	31	32	32½	35
Utah	1,600	1,600	250	—	—	—	—	19	—	—	—	—	—	—	30
Silver Hill	3,000	3,000	500	—	—	—	—	—	—	—	—	—	—	—	—
Nevada	600	1,200	250	—	—	—	—	—	—	—	—	—	—	—	—
Falls of Clyde	6,000	6,000	100	—	—	—	—	—	1	—	—	—	—	—	—
Bamboo	600	600	500	—	—	—	—	—	—	—	—	—	—	—	—
Crockett	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Federal Hope	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Jenny Lind	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
COSO.															
Josephine	9,600	4,800	2,500	1½	4	1	3	1½	3	—	—	—	—	—	—
Willow Springs	2,700	2,700	100	—	—	—	—	—	—	—	—	—	—	—	—
Coso	2,600	3,600	600	—	—	1½	5	—	5	—	5	1	5	—	4
COPPER.															
Napoleon	2,700	2,700	600	—	—	60	74	—	—	—	—	—	78	—	89
Josephine	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CALIFORNIA.															
Laurel Hill	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rhodes Diggings	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fellowes	2,500	2,500	100	—	—	—	—	—	—	—	—	—	—	—	—
Maxwell	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rock River	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Eureka	—	—	—	—	—	—	—	—	—	—	—	—	—	—	85
HUMBOLDT STOCKS.															
De Soto	1,980	1,980	100	—	—	—	—	—	—	—	—	—	—	—	—
Grent Basin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

City Stock Reports.

Sales of Mining Shares

For the week previous to Saturday, June 4, 1864.

By the San Francisco Stock and Exchange Board, Pacific Board of Brokers, Stock Exchange and the City Stock Exchange Board of Brokers

NAMES OF COMPANIES.	SHS. SOLD.	LOW-EST.	HIGH-EST.	CLOS-ING.	AM'T SOLD.
Adriatic	357	10	14	11	34770
Burning Moscow	474	42	63	42	22141
Blue Ledge	255	15	18½	18½	47361¼
Barnside	10	6	6	6	60
Buckeye	56	5	0	5½	1126
Baltic	30	87½	67½	67½	2025
Baltimore American	5	25	25	25	125
Chollar	144	485	650	514	21375
Crockett	10	7	7	7	70
Daney	60	60	60	80	3600
Esmeralda	10	5	5	5	50
El Dorado	10	21	21	21	210
Empress	50	10	10	10	500
Green	5	2	2	2	10
Gould & Curry	192	2900	3000	3050	143425
Golden Age & Empire	185	25	32	28½	4983¼
Gov Downey	40	30	30	30	1200
Hale & Norcross	5	500	500	500	2500
Harmon	25	20	20½	20	1000
Imperial	56	148	155	150	7688
Kohler Brothers	37	12	15	15	8034½
Live Oak	30	1	1	1	180
Lady Bryan	1740	20	29½	28	49180¾
Libertad, Mex.	110	7	19	14	1400
Mt. Davidson	20	1½	1½	1½	25
Maid of Erin, W. M	25	12	12	12	300
North Potosi	390	68	90	85	29550
North American	288	135	158	126	39640
Norton	10	3	3	3	30
Nevada, J. G.	41	45	55	55	22 5
North Eclipse	20	10	10	10	200
Ophir	600	825	950	840	156908
Pride of the West	20	15	18	18	230
Real del Monte	276	32	47½	35	17522
Seneca	142	12	27½	12	3725
Savage	4	1500	2000	1500	1790
Shoshones	50	1½	1½	1½	75
Sacramento & Meredith	211	50	50	50	1200
Sierra Nevada	15	40	42½	40	625
Sheba	5	90	90	90	450
Utica	10	10c	10	10	100
Union, R. D	10	75	75c	75	7½
Uncle Sam	2	640	700	700	280
Washington	5	6	6	6	30
Wide West	2	17	17	17	34
Yellow Jacket	1	750	750	750	750
Sales for the week	.....	.....	.....	.....	531,758¼

Gold in New York.

Friday, May 27.....186@187.
Saturday May 28.....190.
Monday May 30.....189½@191½@194¼.
Wednesday, June 1.....185@189½.
Thursday June 2.....190½.

Legal Tender Notes.

San Francisco, Friday, June 3.....56 per cent.

[The mining community begin to appreciate our reasonable rates of advertising, and are turning their patronage to the journal most properly entitled to receive it. The advantage to shareholders of having all mining notices concentrated in one mining journal, is obvious to all, and our terms have been established with a view to effect such a consolidation; and most companies having an object for publishing in any other particular paper, can consequently afford to have their notices appear in our journal also.—Eds. Press.]

Removal.—D. S. Cutter, has moved his Mining Secretary Office to Room 28, Government House, where, in his absence, Brock Johnson will attend to business for him. 23-1m

Record of New Incorporations.

The following is a record of the names of the companies, location of the claims, and the names of the Trustees mentioned in the articles of incorporation, filed in the County Clerk's office, in this city, since our last report:—

Lalla Rookh G., S. & C. M. Co., Arizona Territory; Mrs. F. L. Medbury, Mrs. A. M. Gayetty, Mrs. E. A. Dunbar, Mrs. O. M. Wells, Mrs. S. M. Brooks.

Carbon Coal Co., Contra Costa county; N. C. Fassett, L. A. Booth, A. Walrath, A. P. Brayton, L. Sawyer.

San Luis M. Co., Durango, Mexico; Mark Brumagim, Richard Chenery, Edward Slossen.

Cinco Senores and Veneranda M. Co.; same as above.

Kentucky Copper M. Co., Calaveras county; Bernard Lulofs, C. A. Weike, L. Honigsberger.

NEVADA TERRITORY.

We gather from the Territorial papers the following names of mining companies which have recently filed papers of Incorporation in Nevada Territory:—

Bishop G. & S. M. Co., Sigel district, M. Manseau, Joseph Laflower, M. Brosseau, Aug. Courchaine, F. Valentine.

M. Brosseau G. & S. M. Co., Virginia district; same as above.

Grand Consolidated Pine Wood G. & S. M. Co., Pine Wood district; W. M. Hurst, N. A. Quill, N. Grimes.

Cedar Tree G. & S. M. Co.; S. H. Robinson, Thomas Campbell, W. W. Bishop.

Daney No. 2 G. & S. M. Co., Devil's Gate district; B. Franz, Wm. Mooser, Victor Risson, Jr.

Stuart G. & S. M. Co., New Virginia district; E. J. Chamberlain, J. H. Morrison, S. Cornell, J. K. Stuart, E. C. Ford.

Stafford G. & S. M. Co., Nevada district; A. M. McMillen, H. F. Goodshaw, G. W. Stafford.

Baton Rouge and Henderson Consolidated G. & S. M. Co., Virginia district; D. S. Turner, Warren Heaton, N. W. Winton, T. D. Warnock, C. C. Harvey.

Mary Ellen G. & S. M. Co., Peavine district; A. B. Chubb, B. A. Duval, Joseph H. Dreany.

Sand Spring Pine Road & M. Co., Nye and Churchill counties; J. H. Kinkead, John McCarty, I. G. Bateman.

Hughes Segregated North American Company, Gold Hill district; F. H. Hughes, Robert Apple, W. H. Brewer, Francis Barber, John S. Bates.

Sheba Hurst G. & S. M. Co., Pine Wood district; W. M. Hurst, N. A. Quill, C. C. Green.

PRICE'S CHEMICAL AND ASSAYING CLASS.—The third session of this class will commence on the 20th inst., at his room, No. 5, First street, near corner of Market, in this city. A pupil after going through the course of lessons prescribed for the assay class, will have derived an amount of information which will enable him to ascertain with precision the exact quantity of gold, silver, lead, copper or tin combined in any mineral. The course also embraces practice with the blowpipe, and analysis sufficient to enable him to discover the presence of all the common metals. The course covers three months time, with two evenings in each week. If more convenient to the student, arrangements can be made by which he can work daily, thus lessening the amount of time required for the course, and rendering it possible for the miner from the mountains to avail himself of the advantage of this class in the smallest possible time.

THE CALIFORNIAN is the name of a new literary journal which has made its appearance in this city during the past week, under the direction of C. H. Webb, Esq., a gentleman of considerable newspaper experience and well known literary ability. The *Californian* is made up in sixteen pages, well filled with choice matter.

Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

DEWEY & CO., Publishers.

OFFICE in the Government House building, Northwest corner of Washington and Sansome streets, rooms No. 56 and 57, up stairs.

Terms of Subscription:

One copy, per annum, in advance,.....$5 00
One copy, six months, in advance,..... 3 00

☞ For sale by Carriers and Newsdealers. ☜

San Francisco:
Saturday Morning, June 4, 1864.

Another Enlargement.

With the close of the present month terminates Volume VIII. of the MINING AND SCIENTIFIC PRESS. With the commencement of the next Volume, the publishers have determined to permanently enlarge the pages of the sheet from three to four columns, a size but a trifle smaller than that of the London *Mining Journal*, the largest *mining* paper in the world. Our success during the present volume permits us to assure our readers of the permanent improvement and progress in usefulness of our journal.

June 1st, 1864. DEWEY & CO., PUBLISHERS.

MINING SHARE MARKET.

The past has been an unusually quiet week in the Mining Share Market, of this city. There is scarcely a stock that has been exempted from the general decline. Even the leading shares of permanently paying stocks have given way to the pressure, and a universal panic seems to have seized upon the market. A rallying point will doubtless be reached ere many days have passed, but at present no sustaining power is visible, and no effort appears to be making in that direction. The total amount of mining sales at the various stock boards in this city during the past week foot up at 531,758.

Ophir has been more active, but at still declining rates. Our last quotations left it at $1,100; it ruled steadily, on Saturday last, at 950, from which figure it gradually declined to $825 on Thrsuday, but rallied again yesterday to $840, closing at $850. Upwards of fifty feet have changed hands. A change in the management of the company's affairs at Virginia City is reported, and it is said that a more economical policy will be inaugurated.

Gould & Curry has met with more than its usual business at greatly fluctuating rates. Sales were made on Saturday last at from $3,460@3,900; on Wednesday from $2,950@3,500; on Thursday and Friday considerable business was done at more uniform rates, from $2,930@$3,000, closing before last evening's board at $3,050, buyer 30 days. The reports from this mine were never more encouraging than to the present time, and its yield of bullion was never larger. Its regular monthly dividend of $125 per foot was declared yesterday, payable on Monday, a large surplus remaining on hand to the credit of the company.

Savage has met with but a light business at declining rates. After touching $2,000, on Tuesday, it sold on Wednesday at $1,790, dropped to $1,500 yesterday morning, but rallied to $1,850 at the evening board.

North Potosi has been less active at about last week's prices.

Challar has met with less business than last week, and at declining rates. Selling on Saturday last at $625, it gradually declined to $465, Thursday, but subsequently rallied, closing at last evening's board at $514.

Burning Moscow has met with a material decline. It closed on Saturday last firm at $63, after which it gradually dropped to from $42@50 before yesterday's board, closing at $48.

Uncle Sam has declined from $725@700, with slight business.

Lady Bryan has been less active and generally at figures materially below those of last week. The closing figures were $26 cash. and $30 buyer 30.

North American which was held quite firmly on Saturday last at $150, declined to $107 on Thursday, but rallied again yesterday, and closed firm at $126.

Blue Ledge still maintains its recent figures, and remains steady at from $18@20.

Golden Age and Empire still further declined to $25 on Wednesday, but subsequently rallied and closed at $28½. Reports of a very unpleasant character are circulated with regard to the management of this mine.

Adriatic may be quoted at $11@13, a slight decline over last week. Baltimore American is quoted at $35, a fall of ten dollars; Baltic has also declined $10, and is now quoted at $67½; Burnside maintains its last figures, $6; Buckeye has dropped from $11@5½,

Crocket is quoted at $7; El Dorado at $21; Empress at 10; Gov. Downey at $30; Harmon at $20; Kohler Brothers at $15; Libertad at $19: Norton at $3; Nevada, J. G., at $45; Pride of the West at $8; Sheba at $90.

Daney maintains its last figures firmly, and is quoted at $60; Esmeralda has improved a trifle, and is held firm at $5; Hale & Norcross has been heard from at $500.

Imperial is steady at $150; Sacramento & Meredith at $50; and Yellow Jacket at $750.

Sierra Nevada has dropped from $56@40.

Seneca which fluctuated from $15@27½ on Saturday, was held firm at $22 on Monday, subsequently remained quiet until Friday, when it dropped to $12.

Real del Monte has been more freely offered at declining rates, gradually dropping from $47½@35.

Wide West was heard from on Wednesday at $17.

WASHOE STOCK MARKET.

Review of the Week Ending May 31st, 1864.

We have noticed no feature of special interest or importance in the Washoe Stock Market since our last report. The same depression remarked for several weeks past still remains, and stocks continue gradually to recede, with constantly decreasing business. The following comprises the business of the week:—

Jewett & Shepard still continues the only stock which appears to attract much attention in the Washoe market. Even of this only 256 shares have changed hands since our last report, against 550, on the week previous. Prices have also greatly declined, from $26½, to 17½, taking the lowest figures of the two preceding weeks. The average of prices for the week past have been from $20@22.

Seneca has improved from $17¾@$30, the highest figure of the past week, closing at $27½; 70 shares have changed hands.

Knickerbocker has been pretty well sustained, sales having been made from $30 to 34.

Kentucky has dropped from 4½@3¼, with but a single transaction.

Napoleon has dropped from $6¾@5.

Branch Mint, which sold last week at from $33@34, has found but a single purchaser at $26.

We quote Sutro, 53 shares from $1½@2½; Frankell, 16 shares from 1½@2; Rock Island, 35 shares from $16@16½; Lady Bryan No. 2, 25 shares at $1½; Kossuth, 20 at $4@4¼.

We notice single transactions in the following shares, at the prices given:—King Solomon, 10 shares at $1½; Stephenson Kehoe, 15 at $1¾; Union, 10 at $4¾; Arizona, 5 at $4; Randolph, 25 at $7½; Oneoto, 5 at $10; Silver Vale. 5 at 1½; McDermott, 10 at 7½; Grass Valley & Napoleon, 20 at 50 cents; Baton Rouge, 30 at $1¾; Lafayette, G. H., 5 at $5; Colorado, 5 at $2; Baltimore American, 5 at $46; Milton, 2 at $42½.

THAT SACK OF FLOUR.—Gridley and his sack of Sanitary flour have been photographed by Mr. Geo. H. Johnson, of this city, the artist. Two photographs have been taken; one representing this famous sack of flour on a pedestal, surrounded and surmounted with the stars and stripes; the other represents the sack of flour gaily decked with nineteen flags and resting upon Mr. Gridley's shoulders. Both the design and execution are excellent. The pictures are for sale. Orders from a distance may be sent to Stratman.

TERRIBLE ACCIDENT.—A man named M. S. Canahan fell down the shaft of the Jewett claim, near Virginia City, on Wednesday of last week. He fell a distance of eighty feet from a scaffolding, which gave way under him. He built the scaffold himself.

The Portland Oregonian, of the 19th, says that the steamer New World brought down to that place from the Cascades, on the day previous, eight hundred pounds of gold dust.

BUSY.—Business about the lower end of Third street is constantly becoming more and more lively. In addition to the attraction of the Camanche, and the turmoil and bustle centering there in connexion with the San Jose railroad, quite a lively business is constantly in progress at the various shipyards about that locality. The chief object of attraction in that line at the present time, appears to be the new steamer which the California Steam Navigation Co. are now building to run between this city and Stockton. This steamer is just in a condition which begins to show her proportions and manner of build. Persons who may sometimes feel a little ticklish about crossing the Bay during a heavy blow in a steamer of the small class necessary to a successful navigation so high up as Stockton, will do well to take a trip to the South Beach and examine this steamer as she now appears upon the stocks. Such a visit will at once satisfy them that she will prove one of the most staunch steamboats which ever floated upon our inland waters. In addition to ribs of usual dimensions, covered and boarded with suitable planking, she is securely bound from stem to stern by a complete net work of iron bars, in the shape of diagonal braces, which must add vastly to her strength, especially when working in a heavy sea which these steamers are sometimes obliged to encounter in San Pablo Bay.

Another important feature at the south end of Third street, at this time, is the long line of iron pipe distributed through the street, preparatory to being put in the ground to serve as the main pipe for the new gas company, which is now erecting its works under the bluff at the foot of Second street. These works are also progressing finely, so far as the foundations are concerned. Workmen are now engaged in excavating for the gasometer, which will be sunk to about the level of low water mark.

THE CAMANCHE.—The plates and machinery of the Camanche have been pretty thoroughly overhauled, cleaned and painted, where necessary. Every part and portion has been placed in position about the yard, so as to be convenient for handling, when the contractors are ready to commence the process of putting her together. Her two huge guns have been elevated to a conspicuous position, where they will show to the best advantage, for the benefit of the various saloons in the neighborhood and the Omnibus Railroad Co. The yard is daily thronged by visitors. Few strangers come to the city without taking a trip to see the Camanche. We have not yet seen any signs of preparation for putting this iron clad upon the stocks. Who is responsible for the delay? The people, for whose protection, and at whose expense the work has thus far progressed, are anxious to see it completed. We have heard that contractors, both for building and wrecking, have thus far made money; but that the next movement must be done at a loss, and that is what's the matter.

MAP OF THE COLORADO RIVER MINES IN ARIZONA.—Mr. Geo. W. Gildersleeve has exhibited to us a fine looking map of the above rich mining section, compiled by I. M. Blood, Esq., from notes and surveys made by Henry Ehrenberg. It shows the principal towns, settlements and mining districts and location of claims. Among others of good repute, we notice the fifteen lodes now being prospected by the Henry & Barnard Consolidated Co., in Weaver district. The map affords a minute view of what must soon prove a wonderful field of precious minerals. Parties interested in Castle Dome, Eureka, Weaver, La Paz or Chimewawa, can see the illustration of their district at No. 302 Montgomery street, room 5, third floor. It should be published.

THE AQUILA is now pretty well righted up, and resting on the flats a short distance from where she was sunk. After her hold has been thoroughly explored for any remaining pieces of her late cargo, she will probably be sold and broken up.

"FORMATION OF METALLIC VEINS."

With the present issue is concluded the valuable and interesting series of articles which we have been publishing under the above head. The principles by which the accumulation of ore in lodes or metalliferous veins is regulated are so enveloped in mystery that the prosecution of mining enterprises is almost as much a matter of chance, at the present day, as it was to the miner who delved three or four centuries ago. The different theories and their modifications are almost as numerous as have been the observers. Nor is this to be regarded as any especial wonder when we reflect upon the numerous difficulties with which the subject is surrounded. The slowness of the operations requires any one set of observations to extend over a period of many years. Then such a variety of conditions occur, and such a combination of problems—geological, physical and chemical are presented for solution, and at such distant periods of time, that even the most thoughtful and practical observer is compelled to regard them only in the light of partial experience, and to exercise an uncommon degree of natural shrewdness in order to arrive at results. In addition to all, the scientific observer, when he attempts to talk about these things with practical miners, and especially if, in the progress of his investigations, he presumes to advocate the necessity of an accurate knowledge of this science, is too often met with a spirit of indifference or even ridicule. In the absence of these, he not unfrequently encounters a species of traditionary lore, founded upon a false basis or no basis at all, against which he finds it almost impossible to make headway. Much valuable knowledge, it is true, has been collected by intelligent mining agents and captains; but, from the lack of system in observing and recording phenomena, very little has been so collected from this source as to be of any special service to mankind. The most of such information is mainly traditionary, and the experience so gained perishes with the men, and society is no richer for their acquisition.

In no country are so many opportunities presented for adding to this useful branch of science as in California, and in no other do we find so large a proportion of skilled and observing minds engaged in the practical operations of mining. The low condition of our State and National finances are, at present, a great bar to that thorough and systematic class of observation which is so desirable; yet much has already been accomplished by the able corps connected with our State Geological Survey, the proofs of which will soon be submitted to the public through the volumes now about to be issued.

In addition to this class of governmental observers, we have a large number of private individuals who, without money and without price, are constantly engaged in accumulating facts and data, the collection of which, at some future day, will add vastly to the store of knowledge already obtained in this direction. Among those gentlemen we may place our able correspondent, Mr. E. A. Miles, who is a close observer and shrewd and original thinker. The papers which he has given the public are of much value, and exhibit a marked degree of originality. The theory which he adopts is one which is rapidly gaining ground, and, should future observations fully substantiate it, we may look forward with much confidence to the time when we may be able to calculate with an almost unerring degree of certainty, as to the direction or depth in a lode where we may expect to find remunerative ores. For the further benefits to be derived from this class of observations, we would refer our readers to the brief "summing up" which our correspondent gives at the close of his communication to-day.

Copper in Vermont.—Several new and valuable copper mines have been discovered in eastern Vermont, one of the most promising of which is near Norwich.

CALIFORNIA.

Nevada County.—According to the *Gazette*, mines in Nevada county are doing very well. Instances are given of hydraulic claims that turn out sums ranging from $300 to $1,000 per day, each.—The *Transcript* says that some of the richest claims in the county are being opened at Brandy Flat, by Knowlton and Mallman. The gold is found in a conglomerate of gravel and cement.

Butte County.—The Marysville *Appeal* has received a letter from Honcut City, which says:—"We have all got our fortunes in the Rattlesnake. To-day we struck the ledge, which is about eighteen inches wide, and the richest I have ever seen. It is completely spotted with gold, and not confined to one portion of the rock, but all through it. I honestly believe it will crush $1,000 to the ton."

New gold diggings have been discovered in a flat near Oroville, which, at the depth of twenty feet, pay twenty-five cents to the pan. The *Union Record* says that the announcement of this fact created great excitement among the miners and citizens of Oroville. Everybody rushed to the new diggings, and merchants, miners, lawyers, doctors, county officers and printers, have all staked off claims, and consider themselves rich in golden fact. Some three hundred claims have already been taken up, and over one hundred shafts are going down, and still a grand rush continues to pour in from all quarters.

Colusi County.—A gentleman writing from Colusi county, speaks very highly of the mines in the western portion of that county, particularly the Pacific claim, which has recently revealed a vein of great apparent value. The Company has already taken out a number of tons of ore for shipment. The Queen, Eagle, and Union are also highly spoken of as well as the Copper Hill and North Star. On the Consolidated Eagle, the tunnel has been run in 160 feet. It has been all the way through rock—some of it very hard. They expect to strike the lode in about 100 feet more. There are several other companies at work with a fair prospect of success.

The Cosumnes Mining Co., according to the Sacramento *Union*, are sending to Sacramento from five to ten tons of copper ore daily. The ore is forwarded thence to this city by steamer.

WASHOE.

New Mining District.—A new mining district has recently been discovered between Humboldt and Reese River, and named Pine Wood. Some rock from this district has lately been assayed by Kellogg & Hewston of this city, which reached the high figure of $2,218 in silver. It is said to be a peculiarity of this rock that it is entirely free from gold. It very much resembles the Sheba rock; the silver occurs as green and blue chlorides. A number of companies have recently been organized in Virginia City to work mines in the Pine Wood district, and arrangements have been made for the shipment of a quantity of ore to that place for working and giving it a fair prospect.

The Potosi.—The *Daily Message*, published at Gold Hill, says it is estimated that the Potosi claim yielded $100,000 during the month of May. The company have ore enough available to supply twenty large mills. The Mexican mill, at Empire City, has a large amount of it to crush, and guarantee sixty-five per cent. of its assay value.

The Gentle Annie Company keeps steadily at work at its shaft, just beyond the North American claim. It has already sunk the shaft which it commenced a few weeks ago, to the depth of seventy feet.

The Tremont, in Flowery district, has struck some excellent rock within the past week, whereat the proprietors are very much excited.

Gould & Curry Improvements.—The Gould & Curry Company are about to change the process of reduction in their mill from the dry to the wet method. The dry mode is very hard on the lungs of the workmen and is no more economical than the wet plan. They are now engaged in the erection of six large patio platforms, to be used in working the tailings from the mill. The amalgamation will be effected in the patios without the aid of the wooden wheels commonly used, a number of Mexican mustangs having been procured to be used in treading the pulp. This plan of working silver ore is practiced in Mexico, but is very hard on the poor animals, as, owing to the chemicals used in the pulp, their legs are liable to become very sore, and the mercury in the mass is also injurious to their health.

Drain Shaft.—A gigantic enterprise, according to the daily *Message*, has been started to sink a shaft for drainage purposes, in Gold Hill proper. A company has been formed whose intention it is to sink a large tripple shaft, about the middle of the Gold Hill mines now opened, and to sink at least six hundred feet before stopping, and into which all the water of the hill will be drained. Two powerful engines will be ordered, each to run two large twelve-inch pumps. All the companies, but two, owning in the hill have signed the necessary documents in support of the measure, and those will, doubtless, enter into the arrangement the present week. As it now is, each company has to pump or raise its own water, and if a few feet lower than its neighbors, would necessarily drain their water. A general system of drainage, as is now contemplated, has been much needed, and will prove of very great advantage to all.

The La Plato Oro is now working a in shaft and tunnel. The former has been sunk 100 feet below the level of the latter, which is being cleared out, repaired, retimbered, and will in a short time be run further ahead.

The New Oregon Company keeps work going ahead in its shaft which is now 115 feet deep, and about sixty-four feet from the tunnel which runs under it. The company is having a very fine shaft sunk, and seem to be taking the lead of its neighbors in making improvements.

The Branch Mint, located on the north side of Crown Point Ravine, having run an incline from a low portion of the ravine to a depth of about one hundred feet to test the character of their ledge, and finding it of a character to warrant any reasonable outlay for its development and impracticable to work by means of that incline, in consequence of the influx of water, they immediately set to work to sink a double shaft. This shaft has been sunk to the depth of 220 feet, and as low as the water level in the incline, the men have commenced to drift for the ledge, which will probably be reached in the course of a few days. The Branch Mint is probably on the same ledge as the Hawkeye, Uncle Sam, Sweezy and that tier of claims, and if one is valuable there is no reason why the others should not be so too.

Plumas Copper and Silver Mines.

Quincy, May 30th, 1864.

Editors Press:—Returning from a trip to Honey Lake Valley, I called at the copper mines in Light's Cañon, and spent two days among the different mines. The Superior mine is opening very fair; it is destined to be one of the very best mines in the State, though the Eclipse ledge is undoubtedly the great parent vein of that district, and will in a very short time eclipse all other veins in that section.—They are going ahead with their work with a spirit truly commendable. There are the Superior, Summit, Northern and Southern Superior, Eclipse, Lincoln, Mammoth, and four or five others, that are worked with energy, which probably will be shipping ore within a few months. The Superior has about $5,000 of first class shipping ore on hand, besides having wasted more than one-half that amount in the last three months time. The mine can be greatly improved, I think, by different management.

The other ledges, it is understood, are to be worked in a different manner, but let that be as it may, that section of our State is bound to speak for itself in a very short time, for there never has been as good copper mines discovered in the United States before.

I am now spending a few days in the Argentine district, near American Valley, Plumas county, and I find that the Howard Silver Co. have struck it very rich in their tunnel. They are about 200 feet below the surface, and have gone into the vein ten feet, finding the rock completely mixed with sulphurets of silver. I have just made an assay of one pound of the rock, and I find it pays at the rate of $408 per ton, of 2,000 lbs. It was no picked rock, but a fair average of the rock for the ten feet in the vein.—They are still at work cutting the vein to find how thick it is; then they intend to call a meeting to take measures to put a mill on the ledge, and I think I am safe in saying that they undoubtedly have a good and rich silver ledge. Yours, L.

Manufacture of Steel Directly from Pig-iron.—Messrs. Brant and McElroy, of Pittsburg, Pennsylvania, have recently patented a process for manufacturing steel directly from pig-iron in an ordinary puddling furnace. Pulverised charcoal, or other carbon, is thrown into the furnace when the iron begins to granulate, and the furnace is closed up so as to retain the gases evolved in it.

The manufacture of hoys' hoops has become an active trade in Connecticut. The price is from $3 to $5 per hundred.

Mechanical Department.

[Written for the Mining and Scientific Press.]

HOME INDUSTRY.

GOLDEN STATE FOUNDRY.

This foundry is another of the old pioneer establishments, being commenced in 1850 by Mr. George K. Gluyas. The firm was known for a long time as Palmer, Hanscom & Co., but recently it has changed to Palmer, Knox & Co. Mr. Knox is extensively known to our community as the patentee of Knox's amalgamator. The establishment is not so large as some of those already spoken of; nevertheless it is important, both in capacity and extent. It employs between 50 and 60 hands regularly, and consumes, on an average, about 140,000 lbs. of iron for casting, and 10,000 lbs. of wrought iron, a month; melting coal, 12 tons; steam coal, 12 tons; forge coal, 2 tons a month; lumber for flasks, patterns and machinery frames, 5,000 feet a month. They make no boilers at this establishment. Their largest casting was three tons, but they have a capacity for six, which is now being increased, to meet the demands of the times, to ten tons. Of course they manufacture all kinds of machinery. The balance valve cylinder, at present in use at the Gould & Curry mine, issued from this foundry, being the first one of the kind manufactured in California. The peculiar merit of this cylinder is its economy, making, I understand, a saving in power of 20 per cent., which, in Washoe, is equivalent to $32 per day. The Tyler water wheel, an Eastern invention, extensively used throughout the old States, and though only recently introduced here, is being steadily adopted amongst ourselves, is alone manufactured at the Golden State Foundry. This wheel is spoken of as combining durability with cheapness, and simplicity of design with great economy in power.

To keep progress with the times, the firm this week introduce, for the first time in California, the McKenzie Blower, which, in the expensive item of coal, is calculated to save at least 50 per cent. The revolutions will be from 100 to 150 per minute. We regret it was not completed in time for us to see it operate. We shall, therefore, postpone a thorough description of this new and important application of power in our midst. The firm are now manufacturing a large size stone-breaker, of Blake's patent. This useful machine is already extensively in use in the mines and public works. Its ordinary capacity of crushing is 100 tons in 10 hours, reducing the rock or stone into cubes of one inch and a-half, with 3-horse power. The new machine in course of construction will admit into the jaws a rock 15 inches by 9, reducing it to the same size as the old one. It will make 200 strokes a minute, and requires 10-horse power. We cannot at present fully estimate the utility of this machine at our quartz and copper mines. It was illustrated in our issue of 16th January last, and we would here again call the particular attention of our readers in the mines to its merits. Another interesting and ingenious article at present to be seen here is Dunbar's Piston Packing Ring. This is intended to supersede the old style of packing ring with bolts, which are always rusting and getting out of order. These never do either, besides possessing many other striking advantages. All the iron work of Messrs. Hunt's celebrated windwills (of which we shall speak more fully when we reach their establishment on Second street, is prepared at this foundry. At present, as this purely California invention and manufacture will be illustrated by us next week, we shall only say that it is generally adopted throughout the State, and gives complete satisfaction. One of these mills at the Catholic Asylum in this city raises water 272 feet perpendicularly, and throws it horizontaliy 4,220 feet.

We had also the pleasure of inspecting one of Pond's iron quartz mills. The evil of the old style of iron quartz mills lay in the bed or mortar being connected with the outside columns, from which arrangement the jar of the stamps crystallized and weakened the iron in the columns. Pond's mill, by disconnecting the bed and outside columns, avoids this imperfection and its attendant expense, and is so far deserving of patronage, for it is certainly a great improvement. Randall's amalgamator, together with Mr. Knox's, have had the run here; a large number of both, together some 150, having been made during the past year. Mr. Knox's pan, we believe, is the oldest in the State. The last article we shall mention is, perhaps, the most ingenious of all, and to our agricultural friends, especially, interesting. It is a small-sized iron churn, which produces butter invariably in *five minutes*. From an examination of the machine, which is simple, ingenious and evidently effective, we believe the statement made to us of its power. The patentee's name we did not learn, nor shall we give now a more elaborated account of its mechanism, as it will shortly be illustrated in our pages. In the meantime, we beg the dairy people, and the curious in mechanics, to give it an inspection. The pattern room and general machinery of the Golden State Foundry are as complete, though not so extensive, as those of their more pretentious rivals, and there, as well as at the works already mentioned, the scholar or mechanic, in pursuing his investigations, will always receive a courteous and hearty welcome.

THE CALIFORNIA FOUNDRY.

This establishment is situated on Fremont street, near Market. It is of recent origin, being commenced in April, 1861, by Messrs. Young & Brodie, but the firm is now known as Brodie & Co. Their business is confined especially to house and ornamental casting, of which class of work they do the heaviest in the State. The iron work of nearly all the recent structures in this city, so creditable to us as a people, issued from this foundry. We might instance the McCreary buildings on Montgomery and Pine streets, and Maguire's splendid new theater adjoining. The work; however, most creditable to the firm and the State, are the Corinthian pillars and arch forming the portico of Donohoe's new bank on Montgomery street, now rapidly approaching completion. These four pillars are each fourteen and a-half feet high, and one foot four inches in diameter. The arch surmounting them weighs four tons—the largest of the kind so far made in the State. The entire work is admitted to be chaste and elegant, bearing the strongest testimony to the growth of mechanical art amongst us. This firm employs 25 hands. Their largest casting is the arch already spoken of—almost the full capacity of their cupola—which, to meet the growing demands of their business, is to be immediately enlarged. They consume about 104,000 lbs. of iron a month, with 20 tons of coal and a proportionate amount of lumber. This firm is composed of enterprising men, mechanics by education and profession, who owe their respectable position to their industry. A few years, no doubt, will show us the California Foundry, if conducted with the same energy and enterprise as heretofore, as one of the leading casting establishments in the State, and a proud evidence in itself of its wondrous mechanical growth. L. H.

[To be continued in our next.]

IMPROVEMENT IN STAMP LIFTERS.—Mr. Hodge, of Detroit, Michigan, has introduced what appears to be a decided improvement in the manner of lifting stamps. By this invention, the heads, instead of being always lifted to a constant hight, are lifted to hights variable with the accumulation of ore in the mortar. For instance, if a stamp, when standing upon the bottom of the mortar, is lifted a distance of six inches, and before being allowed to fall a block of four inches thickness is placed beneath it; the next revolution of the cam shaft will raise that stamp to a distance of ten inches; and thus the stamp will constantly have the same fall upon the quartz to be acted upon, whether the accumulation in the mortar be more or less. The device for accomplishing this is very simple. We shall give an illustration of it, by which the same shall be made perfectly plain to every reader.

SUBMARINE CABLES.—It is stated that the Varna and Balaklava cable worked at the rate of five words per minute; the Red Sea submarine line is worked up to seven words, and the Malta and Alexandria to ten. The speed of the old Atlantic cable was only two and a half words. The greatest speed attained on long submarine lines is by the use of the Hughes instrument; next to this comes the Morse instrument. Improvements are so constantly made in this department of scientific research, that the year yet to elapse before England and America possess a common pulse under the sea may solve some problems yet unriddled.

NEW BURGLAR-PROOF VAULT.—A burglar-proof vault has been invented, in which a space between two of the plates is filled with iron balls about one inch in diameter, entirely loose. The plates cannot be drilled through, as a drill must strike one of these balls, which would rotate with the tool instead of being perforated by the process. One of these vaults has recently been erected in the Custom-house in Chicago.

LIGHTING GAS BY ELECTRICITY.—At the monthly stated meeting of the Franklin Institute, held February 18, 1864, Messrs. Cornelius & Baker exhibited a very beautiful method of *lighting gas* by means of frictional *electricity*, arranged for use with a bracket, two portable lighters, and a table light, all being simple in arrangement and readily kept in order.

These instruments are constructed upon the principle of the electrophorus.

The electric *bracket* is arranged with a brass cup in the form of a vase, resting upon the bracket, with a connecting piece of hard rubber. This cup is lined with lamb skin covered with silk, and contains the hard rubber electric piece which corresponds in form to the inside of the cup. A coiled covered wire connects the brass cup, with a wire attached, to the burner, and terminating just above the burner.

In order to light the gas, the stop is turned, the hard rubber piece lifted partly from the cup, thus liberating the spark and lighting the gas.

The *Portable Lighter* consists of the same vase or cup, with the addition of a non-conducting handle.

When the brass cup is lifted from the electric piece and held to the conducting wire of the burner, the gas is immediately lighted.

Another portable instrument called *Double Air-Tight Electrophorus*, consists of two metallic tubes, each closed at one end, and connected together at the other, with a non-conducting ring of hard rubber, the inside being lined with lamb skin. A hard rubber rod is placed within them, the length of one of the tubes, and fitting them so as to move somewhat freely from end to end, and the tube is raised to the connecting wire of the burner, this piece changes its place again, falling into the tube held by the hand. The spark leaves the upper end of the tube at the same time and lights the gas.

The *Table Light Burner* consists of the same instrument arranged upon a pivot regularly attached to the pillar light.

CRYSTALLIZED IRON.—Crystallized Iron, or "Franklinite," is the production of the mine of the New Jersey Zinc Company. There is but one mine of this ore in the world. The zinc being first extracted from the ore, the residue is the brilliant and singular metal which we have named "crystallized iron." For many years, no use was made of this metal, and it was simply kept in small specimens in gentlemen's cabinets as a curiosity. However, a use has at last been found for it, and, since it has proved so superior in this instance, many other avenues for its introduction are now opening; and it bids fair to prove not only one of the most remarkable, but one of the most useful and valuable metals the world has ever known. As a preventive against drilling, when combined with wrought iron and steel, it is the only real protection against a burglar now in use. Chilled iron, by late improvements in hardening drills, can be easily bored. Hardened steel is not only so brittle as to be almost useless, but its temper can be drawn by a blow-pipe, and then it is at the mercy of the burglar's tools. With "the crystallized," the case is different; it can be furnished any thickness, is not so brittle as any other hard metal, can not be affected by a blow-pipe, and is the hardest material to bore through ever yet produced. It is from this description of iron that Herring's celebrated burglar and fire proof sales are manufactured.—*Am. Mining Gazette.*

PATENTED COMBINATION.—Where a patent is for a combination, a person who takes a new and material part of the combination, but does not apply it to a similar purpose to that for which it was applied in the patented combination, does not infringe the patent. This was the holding of the Court of Common Pleas in the case of Lister *vs.* Eastwood, an English decision, equally applicable, however, to the American Patent Law.

A NEW QUARTZ BATTERY—The Marysville *Appeal* speaks of a new quartz mill or battery invented by Dr. A. Bronson, of that city, which is thought to contain important improvements. It is constructed on the rotary principle—the stamps standing in a circle. The *Appeal* says it must be seen to be appreciated.

IRON CEMENT.—To make an iron cement suitable for making rust joints, mix thoroughly 112 lbs. of clean cast-iron borings or turnings, with 8 ounces of sal-ammoniac and 1 ounce of flour of sulphur, and add sufficient water. Keep wet when not to be immediately used, or it will heat and be spoiled.

IT has been calculated that twenty cents worth of coal applied to the steam engine, will raise 56,000,000 pounds one foot high; the same coal applied to horse power, only 3,600,000 pounds; to electro magnetism 900,000 pounds; and to manual only 600,000 pounds.

GENIUS AND TALENT.

Genius is a certain principle in the human mind which soars and sings without any apparent effort.—Talent is a faculty which requires effort to accomplish results. The one ascends heavenward on the wings of imagination, and revels in all the bright romance of ideality. The other gathers itself up to do battle with realities, and puts forth useful effort. Genius is a strange, inborn, mystic power, of which its very possessor knows but little or nothing. Talent is almost always the result of careful training.—Genius works brilliant mental conceptions, which please the fancy and dazzle the world. Talent is an uplifted hammer, whose telling blows unlock the secrets of nature, science and art. Genius will paint a picture, carve a statue or write a poem. Talent will triangulate the universe, draw lightning from the skies, and enchain a listening senate with bursts of eloquence which carry conviction with every sentence. Canova, Reubens and Byron were born of genius, and could never have been anything but what they were. Newton, Franklin and Webster were men of talent, and owed all they were to laborious and unceasing effort.

The results brought about by men of genius come almost unasked—they are intuitive. The conceptions of Byron scarce cost him an effort beyond the mere mechanical labor of putting his thoughts upon paper.

Mr. Webster was once pressed by a gentleman to speak upon a subject of great importance. He declined on the ground that he had no time in which to prepare himself. "But," said his friend, "a few words from you would do much to awaken public attention." "If," replied Mr. Webster, "there is so much weight in my words as you represent, it is because I do not allow myself to speak on any subject until my mind is imbued with it by careful study and examination."

Alexander Hamilton once said to an intimate friend: "Men give me some credit for genius. All the genius I have lies in this: when I have a subject in hand I study it profoundly. Day and night it is before me; I expose it in all its bearings; my mind becomes pervaded with it. Then the effort which I make the people are pleased to call the fruit of genius. It is the fruit of *labor* and *thought*."

Webster and Hamilton were men of talent. People have sometimes attributed their great efforts to genius. "Labor and thought," which superinduced talent, was the lever with which they wrought out their greatness. But few are born to genius; while multitudes are born with faculties which, if rightly directed, will lead to honor and to fame.

Industry and perseverance, in most men, whether in mechanical, mercantile or professional pursuits, is all that is needed to give talent and success. Every lawyer may not become a Webster, nor every mechanic a Stephenson. Neither can every painter become a Reuhens, or every poet a Byron. There are but few, however, in any walk in life, who, with proper exertion, will fail to arrive at an honorable degree of excellence and usefulness.

El Dorado Canon.—Hon. William H. Sears, late Speaker of the Assembly, has recently returned from a trip to El Dorado Cañon, near the head of navigation on the Colorado river. He brings most satisfactory reports in relation to the richness and extent of the mines in that region. He thinks fortune is yet in store for holders of feet in that section.

Patriotic Movement.—The New York *Express* says an effort will he made in that city to organize a society to encourage the use of domestic goods, or prevent the exportation of so much gold for the payment of the luxuries of dress.

Discovery in Horticulture—The Ohio Farmer says that coal oil has been found, by accident, to be a most effective means of protecting fruit trees against the ravages of the curculio, by placing sawdust, saturated with the oil, at the foot of the tree.

Australian Mammals.—A distinctive feature in the greater number of the Australian mammalia, it is observed, is found in the fact that the female is so often found provided with a pouch or bag in which to carry her young. "This anomalous organization," says a recent writer, "seems to have prevailed almost to the exclusion of any other, and to have been so persistent and universal, that in all the *fossil* mammalia discovered in Australia the same type is found; and as in England and other parts of the world the remains of extinct species of animals, often of gigantic proportions, are found entombed in the soil on which they once lived, so in Australia we find in the newer tertiary deposits the bones of extinct animals of colossal proportions. One of these, named the *Diprotodon* by Prof. Owen, by whom it has been described, must have been as large as the elephant. It has, however, the peculiarity common to other known Australian mammals of being a marsupial."

The fossil remains of animals of the same organic type are also found in England, but only in the oldest of the fossiliferous rocks, from which it would appear that these early species preceded and ushered in the higher forms of mamalia, which remain to the present day. The marsupials of England have long since perished. They have probably existed in other countries, where their fossil remains have not yet been noticed, and where they have become extinct, giving place to mammalia of a high order as in England. A curious and almost unavoidable inference seems to follow; that as no similar progression has been noticed in Australia, we must look upon that continent as of much newer elevation than the four greater ones. It has not yet had time, in its millions of years of existence, to fully develop its animal progress. This idea also looks to the establishment of the recent theory of a variety of centers of creation.

The Book of Nature is being gradually unfolded. Her history is written in indelible characters upon the enduring rocks. The researches of man during the present century, have undoubtedly discovered the key that will ere long serve to decypher and translate the mystic characters, which will tell us all of creation that is permitted for man to know this side of eternity. He who fears to look boldly into the teachings of science, or follow nature up to nature's God, exhibits a lack of true confidence in the faith that is within him, and would trammel with human bonds that infinite portion of his existence which the Creator doubtless conceived when he resolved to make man in his own image.

Valuable Copper Mines.—The copper mine known as the Great Devon Consols, located in Devonshire, England, is one of the most valuable mines in the British empire. Since it was first opened—at a comparatively recent date—its gross yield has been not less than $10,000,000. About one half of this amount has been paid out in dividends and lord's dues. The mine is now in the hight of its prosperity, and its annual net yield is set down at about $275,000, about $50,000 of which goes to the Duke of Bedford, as lord's dues. The copper mines of Devonshire are all found in slate, not one having hitherto been found in granite. The ore which predominates is the yellow sulphuret, which, when roasted, brings an average price of about $25 per ton.

The Burra Burra copper mine, in Australia, is also one of great value, though not as yet fully developed. When first opened, this mine for a while paid back to its stockholders the entire amount of its paid up capital, every six weeks.

A development was made in Cincinnatti lately concerning Catawba brandy. Responsible vintners, declared that the pure article would cost from $5 to $8 a gallon, adding that there was no genuine article of the kind in the market; the quality generally sold consisted of pomace, whisky and fusel oil.

Ballooning in the army has been voted a failure, and all the aerial apparatus belonging to the Government has been sold at auction.

Testing Oils by their Cohesive Figures.—Chemistry having failed to detect some admixtures of oils, C. Tomlinson has had recourse to a physical test, doubtless suggested by the researches of Savart, which he described before the London Pharmaceutical meeting of last month. The test depended upon the forces of cohesion, adhesion and diffusion. A drop of the liquid to be tested was carefully dropped upon chemically pure water in a chemically clean vessel. The force of adhesion endeavored to spread the oil in a thin film over the surface of the water, the force of cohesion endeavored to prevent this, and from the contest of these two forces there resulted figures which the author believed to differ in the case of every independent liquid. There might be instances of two or more liquids differing in chemical composition, but having the same physical properties, where the figures would be identical. Such cases, however, must be rare. The oil must be dropped from a rod that has been made perfectly clean by being washed with strong sulphuric acid, rinsed in water, then washed with caustic potash and again rinsed with water. The rod should be held only about one tenth of an inch from the water when the oil is dropped. The figure produced by castor oil is of great beauty. As soon as this oil is dropped it spreads out in a series of rings, magnificently iridescent. Outside there is a silver corona, which breaks up into a delicate, lace-like pattern; this appearance lasts for some seconds. The figures of the fixed oils are more durable. Mixtures could be easily detected as the figures produced partook of the characters of both the constituent oils, yet resembling the proper figure of the oil which is in excess. A mixture of lard oil is best shown in what may be called the residual phenomena, the lacelike patterns being scattered over with numerous small blotches. Croton oil gives a magnificent figure of large pattern, and a mixture of five per cent. of this oil with castor oil may be readily detected by the practiced eye. Turpentine gives a remarkable figure; the film flushes out immediately almost to the edge of the vessel; the outer circumference is dotted with numerous small bosses, which are larger within, and enclose patches of irisdescent colors. The figure produced by balsam copaiba was a magnificent sight. A succession of rings were thrown out, showing beautiful colors and a metallic luster. A mixture of balsam and castor oil gives neither colors nor pattern.

Our Sources of Wealth.—Happily for us, this crisis in our national career came upon us, providentially, in the midst of a progressive development of material wealth, such as no people could have hoped to enjoy. Blessed with the natural resources of a continent extending through the temperate and into the torrid zone, and fronting on the two great oceans of the globe; having an active population, well skilled in all the industrial pursuits distinguishing modern civilization; receiving constant accessions of enterprising people from Europe; the agricultural and mineral wealth of the country, yielding easily their vast stores to the willing hands of honest labor, it was only requisite that with firm reliance upon the favor of heaven, we should possess that unflagging patriotism which could brave all dangers and suffering in defense of our cherished nationality. A million and more of brave men have volunteered to prove with their life-blood that we do possess this patriotism. But no amount of resources, however enormous, can be made available for the support of a nation's existence, if waste and extravagance and incompetency be permitted to direct the affairs of state; for a public man, without skill in his department, robs the people, and commits treason to the nation, as effectually as if he were in the ranks of the enemy, by occupying a position in which ignorance of duty becomes a crime against the life of his country.—*Exchange.*

Rice.—Rice was introduced into South Carolina by mere accident. In 1696 the master of a vessel from Madagascar landed about half a bushel of an excellent kind, from which small beginning sprung up an immense source of wealth, both to the agriculturalists and merchants of the Southern States. Within little more than half a century from that time 120,000 barrels of rice were exported in one year from South Carolina, and 18,000 from Georgia, all from the remnant of a sea store left in the bottom of a sack.

"If you go into a totally dark room, where there happens to be a pure white object, you will, after a time, know in what part of the room it is; and, if you have patience, you will soon be able to distinguish it from the articles. Again, if you are in the dark, and an object of light color is near you, however minute, it will in a few moments become visible. You yourself are in darkness, yet you see. The object of your vision sheds no light on other bodies however near. It is merely self-illuminating.

Delinquent Sales.

Prima Donna Gold and Silver Mining Company, Devil's Gate District, Nevada Territory.

NOTICE.—There are delinquent upon the following described stock, on account of Assessment (No. 6) levied on the second day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	Certifs.	Shares.	Amt
Briggs, John M	45	5	$2 50
Barker, S	81	20	10 00
Barker, S	84	5	2 50
Brewer, Mrs. H. W	142	5	2 50
Barker, S. F	153	95	47 50
Brewer, F. A	245	10	5 00
Chester, Henry	219	5	2 50
Harris, E. R	36	5	2 50
Harris, E. R	37	5	2 50
Harvey, Wm	74	5	2 50
Hamilton, Jas. E	93	20	10 00
Heath, Mrs. Jemima	118	5	2 50
Hageman, P	133	5	2 50
Lawton, Irving	230	5	2 50
Lentz, Wm. H	137	5	2 50
Lawrence, W. H	237	5	2 50
Morgan, F	238	20	10 00
Morgan, F	239	20	10 00
Milbury, Jos	95	10	5 00
Milbury, Mrs. Annie W	97	10	5 00
O'Bergh, John A	92	5	2 50
O'Neill, R. C	194	5	2 50
O'Neill, R. C	197	5	2 50
Page, M. B	33	5	2 50
Pratt, S. K	204	5	2 50
McGinnis, J. M	107	50	25 00
McGinnis, J. M	108	50	25 00
McGinnis, J. M	110	25	12 50
McGinnis, J. M	112	25	12 50
McGinnis, J. M	215	10	5 00
McGinnis, J. M	217	10	5 00
McGinnis, J. M	218	5	2 50
*Rotarmund, John	64	5	5 00
Reilly, Michael	123	40	20 00
Reilly, Michael	128	10	5 00
Rogers, Samuel	228	10	5 00
Rogers, Samuel	240	25	12 50
Scholtz, Charles	182	5	2 50
Tenney, Eugene B	47	10	5 00
Wheeler, Henry	41	5	2 50

*Also delinquent on Assessment No. 5.

And in accordance with law, and an order of the Board of Trustees, made on the 12th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at Public Auction, at the salesroom of John Middleton & Son, No. 400 Montgomery street, San Francisco, on WEDNESDAY, the 15th day of June, 1864, at the hour of 12 o'clock, M., of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale. H. B. CONODON, Secretary.

20-5t Office No. 520 Washington street, Room 3, San Francisco.

Grent Western Gold and Silver Mining Company.

Notice is hereby given, that there are delinquent upon the following described stock, on account of assessment No. one (1) levied Nov. 17th, 1863, and assessment No. two (2) levied March 17th, 1864 the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certif.	No. Asst.	No. Shs.	Am't
E. D. Spencer	32	1 & 2	10	50 00
E. D. Spencer	no cer	1 & 2	140	126 00
James Collins	31 & 51	1 & 2	35	31 50
James Collins	no cer	1 & 2	42	38 25
M. P. Holmes	53, 54, 65	1 & 2	25	22 50
C. R. Genung	no cer	1 & 2	150	135 00
W. R. Stearns	no cer	1 & 2	150	135 00
E. D. Merriam	55, 56, 57, 58, 59, 66	1 & 2	90	81 00
J. W. Benuchamp	no cer	1 & 2	150	135 00
E. Minturn	no cer	1 & 2	150	135 00
M. H. Kimball	no cer	1 & 2	150	135 00
J. F. Davidson	no cer	1 & 2	150	135 00
J. E. Huges	49	2	150	37 50
E. G. Baker	70, 71, 72	2	15	3 75
John Scott	28	2	3	75

And in accordance with law and an order of the Board of Trutees made on the 20th day of May, 1364, so many shares of each parcel of said stock as may be necessary will be sold at the salesroom of Jeromo Rice & Co., No. 327 Montgomery street, on the 29th day of June 1864, at the hour of 12 o'clock M, of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale. BROCK JOHNSON, Secretary.

Offiee, No. 28 Government House, corner Wasbington and Sansome Street, San Francisco. 22-5t

Rock Rose Gold and Silver Mining Company,

Gold Hill, N. T., (Office, 605 Sacramento street, San Francisco, May 27, 1864).

NOTICE.—There is dolinquent upon the following described Stock, on account of an assessment levied April 5, 1864, of 25 cents, and assessments previously levied, the several amounts set opposite the nnmes of the respective shareholders, as follows, to wit:

Names.	No. Certif.	Shares.	Am't.
B G St John	1, 2, 3, 4, 5	100	25 00
Noblo, Lovely	7, 8, 9, 10, 11, 12, 19, 20, 21, 22	100	25 00
John L Yeates, Jr.	23, 24, 25, 26	100	25 00
John W Gould,	34, 35, 36, 37	50	12 50
J A Moore,	38, 39, 40, 41, 42	25	6 25
G E Davis,	51 to 55	50	12 50
Marshall D Gardaer,	56	10	2 50
Marsball D Gardner,	not issued	15	3 75
G A Vansyckel,	not issued	100	37 00

And in accordance with law, and an order of the Board of Trustees, made on the 27th day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold at the office of the Rock Rose Gold and Silver Mining Company, No. 605 Sacramento street, in the City and County of San Francisco, State of California, on Tuesday, the 14th day of June, 1864, at 10 o'clock A. M., to pay said delinquent assessment thereon, together with costs of advertisiag and expenses of sale.

22-2t S. C. GARDNER, Secretary.

Grafton Gold & Silver Mining Company, Reese River Mining District, N. T.

☞ GRAFTON GOLD AND SILVER MINING COMPANY, Reese River Mining District, Nevada Territory.—Notice.—There is delinquent upon the following described stock, on account of assessment levied on the 25th April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.		Sbares.	Amount.
S Redfield,	not issued	5	$1 50
J T Lee,	"	125	37 50
S W Lee,	"	150	45 00
W W Cole,	"	90	27 00
John Nickerson,	"	10	3 00

And, in accordance with law and an order of the Board of Trustees, made on the 25th day of April, 1864, so many shares of each parcel of said stock, as may be necessary, will be sold at the salesroom of Jerome Rice & Co., 327 Montgomery street, San Francisco, on Wednesday, June 15th, 1864, at eleven o'clock a. m. of said day, together with cost of advertising and expenses of sale.

By order Board of Trustees. D B FRANCIS, Secretary. 509 Clay street.

Tellurium Gold and Silver Mining Company, Pine Orove, Amador county, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 21st day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amt.
Atkinson, Nathan,	245	100	$100
Beckman, Otto	19	5	5
Boylan, Joseph	26	20	20
Boylan, Joseph	27	20	20
Boylan, Joseph	28	20	20
Boylan, Joseph	29	20	20
Boylan, Joseph	30	20	20
Beers, J B	257	162	162
Bufford, J L	91	50	50
Bartlett, C	110	5	5
Cushing, J J	155	50	50
Cushing, J J	200	35	35
Dyer, W D	49	5	5
Dyer, W D	51	5	5
Gay, A C	256	53	53
Hughes, Chas	134	5	5
Kendall, S	183	5	5
Kendall, S	184	5	5
Kendall, S	190	5	5
Kendall, S	192	5	5
Lartigen, P	152	10	10
Malhieu, A	138	10	10
Massard Jules	151	10	10
Marguerier, G	159	10	10
Maubec, L	Bal of 164	5	5
Noyes, Nathan	136	5	5
Noble, Murray	237	5	5
Pardow, Geo	88	15	15
Senter M S	51	5	5
Senter M S	52	3	3
Senter M S	53	2	2
Stevenot G K	156	50	50
Woodbury C E	247	5	5
Woodbury C E	248	5	5
Woodbury C E	249	5	5
Wilkinson J R	198	5	5

And in accordance with law and an order of the Board of Trustees, made on the 21st day of April, 1864, so many shares of each parcel of said stock as may be necessary will be sold at the salesroom of Jerome Rice & Co., on the 4th day of June, 1864, at the hour of 11 o'clock A.M. of said day, to pay said delinquent assessment thereon together with costs of advertising and expenses of the sale.

WM. H. MARTIN, Secretary.

21-3t Office, 627 Clay street, San Francisco.

The above sale is postponed until Saturday, June 11th, 1864, at the same hour and place as above mentioned. By order of the Board of Trustees passed June 2nd, 1864. WM. H. MARTIN, Sec'y.

23-2t Office, 627 Clay street.

La Marronena Silver Mining Company.—Location of mine, Lower California.

Notice.—There are delinquent, upon the following described Stock, of the above named Company, on account of assessment No. 3, levied on the 25th day of November, 1863, and assessment No. 4, levied on the 23d day of March, 1864, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Cert.	No. Shares.	Amt.
B. A. Bidlack (bal of 3d ass't)	33	13 14-22	$13 63
B. A. Bidlack (4th ass't)	33	13 14-22	68 22
J. J. Corrigan,	84	9 2-22	45 45
J. J. Corrigan,	85	9 2-22	45 45
J. J. Corrigan,	99	5 2-22	30 45
J. O. Dow,	94	13 14-22	68 22
Miss M. A Phillips,	157	21 6-22	106 55
Susan J. Bryant,	45	4 2-22	20 45
Jas. Delancy,	98	3	15 00
Geo. W. Thompson	107	4	20 00

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of March, 1864, so many shares of each parcel of said Stock as may be necessary, will be sold at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on the 30th day of May, 1864, at the hour of 12 o'clock, M., of said day, to pay said delluquent assessment thereon, together with costs of Advertising and expenses of the Salo.

(18-4t) WM. FAULKNER, Secretary.

April 25, 1864. Office, 411 Clay street, San Francisco.

The above sale is Postponed until Tuesday, June 7th, 1864, at the same hour and place. By order of the Board of Trustees.

WM. FAULKNER, Secretary.

San Francisco, May 30, 1864. 23-1t

Pena Silver Mining Company.—Location of Mine, Lower California.—Office of Company, 411 Clay street, San Francisco.

NOTICE.—There are delinquent upon the following described stock, of the above named Company, on account of Assessment No. 3, levied on the 25th day of November, 1863, and Assessment No. 4, levied on the 23d day of March, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Assts.	No. Cert.	No. Shares.	Amt.
G E Schenck	3	75	3½	$5 25
B A Bidlack	3 and 4	65	16⅔	25 01
J G Dow	3 and 4	50	10	25 00
J G Dow	3 and 4	51	10	25 00
J G Dow	3 and 4	52	10	25 00
J G Dow	3 and 4	53	3⅓	8 33
J G Dow	3 and 4	148	16⅔	41 67
I N Thorne	4	83	13⅓	18 33
Susan E Thorne	4	82	10	10 00
Susan J Bryant	4	81	5	5 00
Charles Geddes	4	151	1	1 00
W H Baxter	4	173	57	57 00

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of March, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on the 30th day of May, 1864, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

WM. FAULKNER, Secretary.

April 25th, 1864. Office, 411 Clay street, San Francisco.

The above sale is postponed until TUESDAY, June 7th, 1864, at the same hour and place. By order of the Board of Trustees.

WM. FAULKNER, Secretary.

San Francisco, May 30th, 1854. 23-1t

RICHARD WEGENER,
Accountant, Mining Secretary,
AND GENERAL AGENT.
No. 204 Montgomery St., Southeast cor. Montgomery & Pine Sts.,
11-m SAN FRANCISCO.

Meetings.

Ontario and Webster Gold and Silver Mining Companies, Montgomery District, Mono County, California.

Notice is hereby given that the Annual Meeting of the Stockholders of the Ontario and Webster Gold & Silver Mining Companies will be held on Monday, the 20th day of June, 1864, at 7½ o'clock P. M., at the office of the Companies, 302 Montgomery street, San Francisco. (22-td) H. B. SHELDON, Secretary.

Equal Chance Mining Company.—The First Annual Meeting of the Stockholders in the above named Company, for the election of Trustees, will be held on Monday, the 13th day of June next, at 2 o'clock, P. M., at the office of the Secretary, 514 Montgomery street. D. M. HOSMER, Secretary.

San Francisco, May 13th, 1864. 20-td

Table Mountain Copper Mining Company.—Notice is hereby given, that the Annual Meeting of Stockholders of the Table Mountain Copper Mining Company, Stanislaus District, Calaveras county, for the election of Trustees, amendment of By-Laws, and the transaction of any other business that may come before the meeting, will be held, at the office of the Company, No. 645 Clay street, San Francisco, on Monday, the 13th day of June next, at 7½ o'clock P. M. M. G. ELMORE, Secretary.

San Francisco, May 21st, 1864. 21-td

Summit Pass Gold and Silver Mining Company, Tuolumne County, California.

The regular ANNUAL MEETING of the Stockholders of said Company for the election of Trustees, will be held at Room 15, No. 523 Clay street, on the second TUESDAY of June, at 7½ o'clock, P. M.

T. B. LUDLUM, Secretary.

San Francisco, May 14th, 1864. 21-3t

Point Arena Petroleum Mining Company.—The Shareholders of the Point Arena Petroleum Mining Company are hereby notified that the Annual Meeting, for electing officers and other general business, will be held, at the Secretary's office, corner of Sansome and Jackson streets, San Francisco, on the 25th day of June, 1864, at 7 o'clock P. M. The Stock is now in the Secretary's hands, ready to be issued to all parties entitled to the same.

D. S. CUTTER, Secretary. J. R. TOBIN, President.

San Francisco, May 20, 1864. 21-4t

Pena Silver Mining Company.—Notice is hereby given that the annual meeting of the Stockholders, of the "Pena Silver Mining Company," will be held at the Office of the Secretary, No. 411 Clay street, on WEDNESDAY, the 8th day of June, 1864, at 7 o'clock, P. M., for the purpose of electing a Board of five Trustees for the ensuing year. By order.

WM. FAULKNER, Secretary.

April 25 1864. (18-4t) Office, 411 Clay street San Francisco.

La Marronena Silver Mining Company.—Notice is hereby given that the annual meeting of the Stockolders of the La Morrenena Silver Mining Company will be held at the Office of the Secretary, No. 411 Clay street, on WEDNESDAY, the 8th of June, 1854, at 4 o'clock, P. M., for the purpose of electing a Board of Trustees for the ensuing year. By order.

WM. FAULKNER, Secretary.

April 25, 1864. (18-4t) Office, 411 Clay street, San Francisco.

Assessments.

Meder Gold and Silver Mining Company, Santa Cruz County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of June, 1864, an Assessment of fifteen (15) cents per share was levied upon the Capital Stock of said Company, payable immediately, in United States Gold Coin, to the Secretary, at the Office of the Company, No. 537 Washington Street.

Any Stock upon which said assessment shall remain unpaid on Saturday the 9th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 25th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

MILO CALKIN, Secretary.

23-5t Office, No. 537 Washington street, San Francisco.

Blue Jacket Gold and Silver Mining Company, Devils Gate District, Lyon County, Nevada Territory.

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 25th day of May, 1864, an Assessment of 25 cents per Share was levied upon the Capital Stock of said Company, payable on the 30th day of May, 1864, in United States Gold Coin, to the Secretary.

Any Stock upon which said Assessment shall remain unpaid on Saturday, the 25 day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 9th day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the Sale. By order of the Board of Trustees.

WM. A. RUST, Secretary.

22-5t Office, 212 California street, San Francisco.

Orinoco Gold & Silver Mining Company,
Carroll Gold & Silver Mining Company,
Brooklyn Gold & Silver Mining Company,
Victoria Gold & Silver Mining Company,
Mohawk Gold & Silver Mining Company, Reese River District, Lander County, Nevada Territory.

Notice is hereby given, that at a meetiug of the Board of Trustees of said Companies, held on the 28th day of May, 1864, an Assessment of 50 cents per share was levied upon the capital stock of each of said Companies, payable on the 30th day of May, 1864, in U. S. gold coin, to the Secretary, or to JOSHUA MALLOY, Superintendent at the mine.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 2d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall bo made before, will be sold on Sataraay, the 15th day of July, 1864, to pay the dolinquent Assessment, together with costs of advertislag and expenses of the sale. By order of the Board of Trustees,

WM. G. WENDELL, Secretary.

Office, 501 & 503, N. W. cor. Froat and Washington sts., San Francisco. 23-4t

Star of Nevada, Gold and Silver Mining Company, Reese River District, Lander County, N. T.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 31st day of May 1864, an assessment, of 50 cents per share was levied upon the capital stock of said Company, payable on the 1st day of June, 1864, in U S. Gold Coin, to the Secretary, at the Office of the Company, or to Ed. Muller, superintendent at Austin, N. T.

Any Stock upon which said assessment shall remain unpaid on Saturday, the 2nd day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 16th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of sale.

By order of the Board of Trustees. JOHN DUNN, Sec'y.

23-4t Office, 728 Montgomery Street, San Francisco.

Stars and Stripes Copper Mining Company, Rock Creek District, Calaveras county.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 21st day of May, 1864, an assessment of ten cent per share was levied upon the capital stock of said company, payable immediately, in United States Gold Coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on the 21st day of June, 1864. will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 9th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees. J. J. FINDLEY, Secretary.

23-4t Office, on Rock Creek, Calaveras county, California.

Mount Eden Mining Company (Owen Ledge) Gold Hill District, Nevada Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Mount Eden Mining Company, held on the 31st day of May, 1864, an Assessment of fifty cents per share, was levied upon the Capital Stock of said Company, payable on the 4th day of June, 1864, in United States gold coin to the Secretary, or to FRANK MONOAN, Superintendent at the mine.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 2nd day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 18th day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and exponses of the sale. By order of the Board of Trustees.

H. B. CONODON, Secretary.

23-4t Office, No. 620 Washington Street, (Room 3) San Francisco.

Mosquito Quartz Mining Company. Localton, Mosquito Gulch, near Mokelumne Hill, Calaveras County.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of May, 1864, an Assessment $5 per share was levied upon the Capital Stock of said Company payable immediately in United States Gold or Silver Coin, to the Secretary, at the Office of the Company, No. 433 Montgomery St. San Francisco.

Any stock upon which said Assessment shall remain unpaid on SATURDAY, the 11th day of June, 1864 will be advertised on that day, as delinquent, and unless payment shall be made before, will be sold on FRIDAY, the 1st day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale. By order of the Board of Trustees.

EM. FENARD, Secretary.

20-4t Office, 433 Montgomery Street, San Francisco.

Tuolumne Gold and Silver Mining Company, Poindexter Ledge, San Francisco Dtstrict, Artzona Territory.

Notice is hereby given that at a Meeting of the Board of Trustees of said Company, held on the 10th day of May, 1864, an Assessment of ten cents per share was levied upon the Capital Stock of said Company, payable on the 14th day of May, 1861, in United States Gold and Silver coin, to the Secretary, No. 11, Government House in the City and County of San Francisco.

Any stock upon which said Assessment shall remain unpaid on SATURDAY, the 11th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on WEDNESDAY, the 29th day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. EDW. QUACKENBUSH Sec'y.

Office, No. 11, Government House, corner Sansome and Washington Streets. 20-4t

Morning Call Silver Mining Company, Wheeler and Rogers Ledge, No. 2, Big Creek District, Lander County, N. T.

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 11th day of May, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on the 14th day of May, 1864, in United States gold and silver coin, to the Secretary, No. 11 Government House in the City and County of San Francisco.

Any stock upon which said Assessment shall remain unpaid on Saturday the 11th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on WEDNESDAY, the 29th day of June, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale. EDW. QRACKENBUSH, Secretary.

Office, No. 11, Government House, cor. Washington and Sansome Streets, San Francisco. 20-4t

Excelsior Gold and Silver Mining Company, Reese River District, Lander county, Nevada Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 22nd day of March, 1864, an assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable in Gold Coin of the United States, to the Secretary, or to SAMUEL DONNELLY, Superintendent of the Company, at Austin, N. T. By order of the Board of Trustees.

J. CAMMET, Secretary.

20-5t Office, No. 321 Front Street, San Francisco.

Coughs and Colds.—The sudden changes of our climate are sources of PULMONARY, BRONCHIAL and ASTHMATIC AFFECTIONS. Experience having proved that simple remedies often act speedily when taken in the early stages of the disease, recourse should at once be had to *"Brown's Bronchial Troches,"* or lozengers, let the Cold, Cough, or Irritation of the Throat be ever so slight, as by this precaution a more serious attack may be effectually warded off. PUBLIC SPEAKERS and SINGERS will find them effectual for clearing and strengthening the voice. Soldiers should have them, as they can be carried in the pocket and taken as occasion requires.

Agents for California, Redington & Co., San Francisco. 23-1m

San Lorenzo Gold and Silver Mining Company, Santa Cruz County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 24th day of May, 1864, an assessment of fifty (50) cents per share was levied upon the Capital stock of said Company, payable on the 25th day of May, 1864, in United States Gold Coin, to the Secretary, at the office of the Company, or to DANIEL S. FLAGG, Superintendent at the mine.

Any stock upon which said assessment shall remain unpaid on SATURDAY, the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 11th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

MILO CALKIN, Secretary.

Office, No. 537 Washington Street, San Francisco. 22-4t

Blue Dragon Mining Company, Inyo District, Tulare County California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 23d day of May, 1864, an assessment of twenty cents per share was levied upon the Capital Stock of said Company, payable immediately, in Gold Coin of the United States, to the Secretary, at the office of the Company, 728 Montgomery Street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the Twenty-Fifth day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 9th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale.

N. G. FRENCH, Secretary.

22-4t Office, 728 Montgomery street, San Francisco.

Brewer Gold and Silver Mining Company, Silver King District, Amador county, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 23d day of May, 1864, an Assessment of fifteen cents per share was levied upon all the assessable Capital Stock of said Company, payable on the 21st day of June, A. D., 1864, in United States gold coin, to the Secretary, F. A. Brewer, No. 40 Montgomery Block, San Francisco, Cal.

Any stock upon which said Assessment shall remain unpaid on 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 7th day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale. By order of the Board of Trustees. F. A. BREWER, Sec'y

22-4t Office, No. 40. Montgomery Block, San Francisco, Cal.

Potomac Gold and Silver Mining Company, Reese River District, Lander county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held May 23d, 1864, an assessment of one ($1) dollar per share was levied upon the Capital Stock of said Company, payable immediately, in United States Gold Coin, to the Secretary, at the office of the Company, or to F. A. MILLER, Superintendent at Austin, N. T.

Any Stock upon which said assessment shall remain unpaid on the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 11th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale.

GEO. A. BALL, Sec'y.

22-4t Office, 509 Clay Street, San Francisco.

Manchaha Gold and Silver Mining Company, Reese River District, Lander County, Nevada Territory.

Notice is hereby given that at a meeting of the Board of Trustees of said Company held on the 22nd day of March, 1864, an assessment of Twenty five cents per share was levied upon the Capital Stock, of Said Company, payable in Gold Coin of the United States, to the Secretary, No. 321 Front street, San Francisco, or to SAMUEL DONNELLY, Superintendent of the Company at Austin, N. T. By order of the Board of Trustees. F. M. TRUWORTHY, Secretary.

20-5t* Office, No. 321 Front Street, San Francisco.

Ophir of the Colorado Silver Mining Company, El Dorado Canon, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of May, 1864, an Assessment of two dollars per share was levied upon the Capital Stock of said Company, payable on the 17th day of May, 1864, in United States gold coin to the Secretary.

Any stock upon which said Assessment shall remain unpaid on the 18th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. T. A. MUDGE, Secretary.

21-4t Office, 528 Clay street, San Francisco.

Joe Douglass Gold and Silver Mining Company, Reese River District, Lander county, Nevada Territory.

Notice is hereby given, that, at a meeting of the Board of Trustees of said Company, held on the 18th day of May, 1864, an assessment of 50 cents per share was levied upon the capital stock of said Company, payable on the 19th day of May, 1864, in United States gold coin, to the Secretary, or to the Superintendent, JOSEPH WHITE, at Austin, N. T.

Any stock upon which said assessment shall remain unpaid on Saturday, the 18th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 2d day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

ROBERT T. POLK, Secretary.

21-4t Office, No. 35 Government House, San Francisco.

Great Central Tunnel Company, Virginia City, Nevada Territory.

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 17th day of May, 1864, an assessment of forty cents per share was levied upon the Capital Stock of said Company, payable immediately, in United States gold coin, to A. C. Nichols, No. 326 Clay street, San Francisco, or MELVILLE KELSEY, Virginia City.

Any Stock upon which said assessment shall remain unpaid on Saturday, the 18th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 6th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

21-4t MELVILLE KELSEY, Sec'y., Pro. tem.

Office of the Ontario and Webster Gold and Silver Mining Companies, Location of Works, Montgomery District, Mono County, California.

Notice is hereby given that at a meeting of the Board of Trustees of said Companies, held on the 26th day of May, 1864, an assessment of twenty-five cents per share was levied upon the assessable stock of said Companies, payable immediately, in United States gold coin, to the Secretary, at the office of said Companies.

Any stock upon which said Assessment shall remain unpaid on the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 9th day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. H. B. SHELDON, Secretary.

Office, N. E. corner Montgomery and Pine Sts., Room, No. 2, 3rd floor. Office hours from 12½ M. to 2 P. M. 22-4t

Sacrte Copper Mining Company, Carman Island.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held May 24th, 1864, an assessment of twenty-five cents per share, was duly levied upon the Capital Stock of said company, payable May 25th, 1864, in U. S. Gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 11th day of July, 1864, at 12 o'clock M. to pay the delinquent assessment and costs of advertising and expenses of sale. By order of the board of Trustees. ISAAC TABOR, Sec'y.

22-4t Room 7, No. 502 Montgomery Street, San Francisco.

Keokuk Gold, Silver and Copper Mining Company, Clayton Mining District, Contra Costa County, California, Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 26th day of May, 1864, an Assessment of Ten (10) cents per Share was levied upon the Capital Stock of said Company, payable immediately, in United States Gold Coin, to the Secretary, at the office of the Company, No. 322 Front street or to J. W. CASSIDAY, at the mine.

Any Stock upon which said Assessment shall remain unpaid on Saturday, the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 13th day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the Sale. By order of the Board of Trustees.

A. B. WINEGAR, Secretary.

22-4t Office, 322, Front street, San Francisco.

Mechanics Gold, Silver and Copper Mining Company, Clayton Mining District, Contra Costa County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 26th day of May, 1864, an Assessment of five (5) cents per share was levied upon the capital stock of said Company, payable immediately, in United States Gold Coin, to the Secretary, at the office of the Company, or to J. W. CASSIDY, Superintendent at the mine.

Any stock upon which said Assessment shall remain unpaid on Saturday the 25th day of June, 1864, will be advertised on that day as delinquent, and, unless payment shall be made before, will be sold on Wednesday, the 13th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

A. B. WINEGAR, Sec'y.

22-4t Office, No 322, Front Street, San Francisco.

Siskiyou Lion Mining Company, Siskiyou County, California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 26th day of May. 1864, an Assessment of Fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, to the Secretary, in U. S. Gold Coin.

Any stock upon which assessment shall remain unpaid on Saturday, June 25th, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, July 12th, 1864, at 12 o'clock M., to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

JAS. C. NORRIS, Secretary.

Office, No. 430 Jackson street.

San Francisco, May 27th, 1864. 22-4t

Augusta Gold and Silver Mining Company, Augusta District, Lander county, N. T. Office, 406 Front street, San Francisco, May 20th, 1864.

Notice is hereby given, that at a meeting of the Trustees of said Company, held November 2d, 1863, an Assessment, No. 1, of twelve and one-half (12½) cents per share was levied upon the Capital Stock of said Company. Also at a meeting of the Trustees of said Company, held March 9th, 1864, an Assessment, No. 2, of twelve and one-half (12½) cents per share was levied upon the Capital Stock of said Company. Both Assessments, No. 1 and No. 2, payable immediately in United States gold coin, to the Treasurer, at the office of said Company, or to John Moffet, Superintendent, at the mine, in Nevada Territory.

Any stock upon which said Assessments shall remain unpaid on the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 25th day of July, 1864, to pay the delinquent Assessments, together with costs of advertising and expenses of sale.

21-4t. JOHN SHAW, President.

Sisters Gold and Silver Mining Company, Augusta District, Lander county, N. T. Office, 406 Front street, San Francisco, May 20th, 1864.

Notice is hereby given, that at a meeting of the Trustees of said Company, held October 17th, 1863, an Assessment, No. 1, of fifteen (15) cents per share was levied upon the Capital Stock of said Company. Also at a meeting of the Trustees of said Company, held March 9th, 1864, an Assessment, No 2, of fifteen (15) cents per share was levied upon the Capital Stock of said Company. Both Assessments, No. 1 and No. 2, payable immediately, in United States gold coin to the Treasurer, at the office of said Company, or to John Moffet, Superintendent, at the mine, in Nevada Territory.

Any stock upon which said Assessments shall remain unpaid on the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 25th day of July, 1864, to pay the delinquent Assessments, together with costs of advertising and expenses of sale.

21-4t J. FRANK MILLER, President.

Oxford Beta Tunnel and Mining Company, Silver Hill, Esmeralda District, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 9th day of May, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on the 10th day of May, 1864, in United States gold coin, to the Secretary, or to Thomas Lytle, Superintendent, at Aurora, N. T.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 11th day of June, 1864, will be advertised on that day, as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 29th day of June, 1864, to pay the delinquent Assessment, together with the costs of advertising and expenses of the sale. By order of the Board of Trustees. GEO. H. PECK, Sec'y.

20-4t Office, Corner of Broadway and Sansome Streets.

POSTPONEMENT.—Notice is hereby given that at a meeting of the Board of Trustees of the above named Company, held on the 28th day of May, 1864, it was ordered that the time for publication of delinquent stock, under the above named assessment, be extended from the 11th to the 18th day of June, 1864, and that the time of sale of the delinquent stock be extended to the 6th day of July, 1864. By order of the Board of Trustees. GEO. H. PECK, Sec'y.

23-td Office, cor. of Broadway and Sansome sts., San Francisco.

Mt. Zion Gold, Silver and Copper Mining Company, Clayton District, Contra Costa county, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of May, 1864, an Assessment, No 12, of fifty cents per share was levied upon the Capital Stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at his office, 240 Montgomery street San Francisco.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 18th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday the 6th day of July, 1864, to pay the delinquent Assessment, together with the costs of Advertising and expenses of the sale. By order of the Board of Trustees.

A. C. WOOD, Secretary.

Office, No. 240 Montgomery street, No. 4, 2d floor. 21-4t

Nevada Copper Mining Company, Nevada County, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 14th day of May, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable immediately in U. S. gold coin, to the Secretary, at the office of the Company, or to the Superintendent, E. W. MARLIN, at Grass Valley.

Any stock upon which said Assessment shall remain unpaid on the 18th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 2d day of July, 1864, to pay the delinquent Assessment, together with the costs of Advertising and expenses of sale.

RICHARD S. CLARK, Secretary.

Office, 610 Merchant street, San Francisco. 21-4t

Astor Ledge and Company, Ravenswood District, Lander county, Nevada Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 11th day of May, 1864, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable immediately to the Secretary, at No. 3, Armory Hall, 3d floor, corner of Montgomery and Sacramento streets.

Any stock upon which said assessments shall remain unpaid on the 11th day of June, 1864, will be advertised on that day as delinquent and unless payment shall be made before, will be sold on the 29th day of June, 1864, to pay the delinquent assessments, together with costs of advertising and expenses of the sale.

S. PURDY, Secretary.

Office, Armory Hall, Montgomery and Sacramento sts. 20-4t

Ophir of the Colorado, No. 1, Gold & Silver Mining Company, Location of Claim, El Dorado Canon, Territory of Arizona.

Notice is hereby given that at a meeting of the Trustees of said Company, held on the 7th day of May, A. D., 1864, an assessment of fifteen (15) cents per share was levied upon the Capital Stock of said Company, payable on the 8th day of June, A. D., 1864, to the Secretary in U. S. Gold Coin,

Any stock upon which said assessment shall remain unpaid on the 8th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 20th day of June, to pay the delinquent assessment, together with cost of advertising and expenses of sale. RODNEY CLARK, Sec'y.

Office, San Francisco, No. 620 Washington Street, Room No. 13. 20-4t

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Mount Vernon Gold and Silver Mining Company, Smoky Valley Mining District, Lander County, Nevada Territory.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 7th day of May, 1864, an assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable immediately, to the Secretary of the Company, in U. S. Gold Coin.

Any Stock upon which said assessment shall remain unpaid on SATURDAY, the 11th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 25th day of June, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale By order of the Board of Trustees.

WM. H. DUDLEY, Secretary.

20-4t Office, No. 523 Montgomery St., San Francisco.

Segregated Crown Point Mining Company, Gold Hill Mining District, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 13th day of May, 1864, an Assessment of twenty-six dollars per share was levied upon the Capital Stock of said Company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company.

Any stock upon which said Assessment shall remain unpaid on Tuesday, the 14th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 25th day of June, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

R. N. VAN BRUNT, Secretary.

20-4t Office, 706 Montgomery street, San Francisco.

Delinquent Sales.

Wide West Copper Mining Company, Copper Canon, Calaveras County, State of California.

NOTICE.—There are delinquent, upon the following described stock, on account of assessments levied on Dec. 12th 1863, and March 26th 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Assessment No. 1,

Names.	No. Cert.	No. Shares.	Amt.
Baleman A.	114	119	$29 75

Assessment No 2, Levied Dec. 12th, 1863.

Bateman, A.	114	119	29 75
Logan, James	67	150	37 50
Geddes, W. H.	85	50	12 50
Geddes, W. H.	86	50	12 50
Geddes, W. H.	87	25	6 25
Geddes, W. H.	88	25	6 25

Assessment No. 3, Levied March 26th 1864.

Logan, James	67	150	45 00
Geddes, W. H.	85	50	15 00
Geddes, W. H.	86	50	15 00
Geddes W. H.	87	25	7 50
Geddes, W. H.	88	25	7 50
Tilley, W. J.	6	50	15 00
Tilley, W. J.	7	50	15 00
Tilley, W. J.	8	50	15 00
Isaacs, A. C.	10	37	11 10
Felton, H. T.	20	10	3 00
Felton, H. T.	21	10	3 00
Felton, H. T.	81	10	3 00
Felton, H. T.	82	10	3 00
Rawson, J. A.	27	10	3 00
Rawson, J. A.	28	5	1 50
Rawson, J. A.	47	5	1 50
Otis, Stephen	39	150	45 00
Otis, Stephen	74	150	45 00
Otis, Stephen	84	40	12 00
Martin, K. P.	64	150	45 00
Greenman, L. B.	80	10	3 00
Lipe, Seber	89	10	3 00
Bateman, A.	114	119	35 70
Linsey, E. W.	109	10	3 00

And in accordance with law, and an order of the Board of Trustees made on the 24th day of May, 1864, so many Shares of each parcel of said Stock as may be necessary, will be Sold at Jerome Rice & Co's., 327 Montgomery street, on the 13th day of June, 1864, at the hour of 10 o'clock, A. M., of said day, to pay said delinquent Assessment thereon, together with costs of Advertising and expenses of the Sale. M. G. ELMORE, Secretary.

Office, 645 Clay street, San Francisco. 22-2t

Great Central Mining Company, Weaver District, Arizona Territory.

Notice is hereby given, that there are delinquent upon the following described stock, on account of Assessment No. Two (2), levied Oct. 21st, 1863; Assessment No. Three (3), levied Dec. 26th, 1863; and Assessment No. Four (4), levied Feb. 12th, 1864, the several amounts set opposite the names of the respective shareholders, as follows:—

Name.	No. Cert.	No. Asst.	No. Shares.	Amt.
Battles, W W	85	2, 3 and 4	50	$37 50
Battles, W W	68	2, 3 and 4	25	18 75
Gerry, S R	67	3 and 4	25	12 50
Lawlor, Jos	129	3 and 4	20	10 00
Morrill Bros	135	3 and 4	50	25 00
Mullen, W E	6	4	10	2 50
Nagle, Geo D	66	4	100	25 00
O'Brien, W	87	4	25	6 25
O'Brien, W	89	4	15	3 75
O'Brien, W	90	4	10	2 50
Rockwell, E A	114	2, 3 and 4	20	15 00
Rockwell, E A	115	2, 3 and 4	10	7 50
Rockwell, E A	116	2, 3 and 4	10	7 50
Rockwell, E A	117	2, 3 and 4	10	7 50
Seibel, Fred	83	4	25	6 25
Seibel, Fred	84	4	25	6 25
Seibel, Fred	85	4	15	3 75
Warfield, Alex	not yet issued.	3 and 4	100	50 00
Wigmore, John	59	2, 3 and 4	30	22 50

And in accordance with the laws of the State of California, and an order of the Trustees, made on the 28th day of March, 1863, so many shares of each parcel of said stock as may be necessary, will be sold, at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on WEDNESDAY, the 8th day of June, A. D. 1864, to pay said delinquent assessment thereon, together with the costs of advertising and the expenses of sale. RICHARD S. CLARK, Secretary.

19-5t Office No. 610 Merchant street, San Francisco.

Orient Gold and Silver Mining Company. Location, Inyo District, Tulare County, California.

NOTICE.—There is delinquent upon the following described stock, on account of assessments of fifty cents per share, duly levied by order of the Board of Trustees of the above named Company, on the 30th day of October, 1863, the several amounts set opposite the names of respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amt.
E A Atwood	133	20	$10 00
John Albert	not issued	4	7 00
Allen Caswell	1	10	5 00
Allen Caswell	157	15	7 50
Allen Caswell	175	68	34 00
D C Norcross	not issued	33	16 50
D M Randall	not issued	32	16 00

And in accordance with law, and an order of the Board of Trustees, made on the 24th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the sales room of Jerome Rice & Co., No. 327, Montgomery street San Francisco on Wednesday, July 6th, 1864, at 12 o'clock, M., of said day, to pay said delinquent assessment thereon, together with costs of Advertising and expenses of the Sale.

J. F. MILLER, Secretary.

22-4t Office, 416 Washington Street, San Francisco.

Caledonia Tunnel and Mining Company, Office, No. 10, Government House, San Francisco, May 17, 1864.

Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Caledonia Tunnel and Mining Company, as required by the By-Laws of said company, there will be sold at public auction, to the highest bidder for cash, in United States Gold Coin, on SATURDAY, June 18, 1864, at 11 A. M. of that day, at the salesroom of Messrs. Jerome Rice & Co., No. 327 Montgomery street, San Francisco, so many shares of the capital stock of said company, standing in the name of the following person, or shareholder, as will be necessary for the payment of all assessments duly levied thereon by the Board of Trustees, and delinquent, together with the expenses of advertising and sale:

Thomas Sunderland, Administrator of the Estate of H. O. Caylor. No. certificates—602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621....200 shares.....$2114 50

By order of the Board of Trustees.

21-4t J. M. BUFFINGTON, Secretary.

George Leet Gold and Silver Mining Company, Crown Point Tunnel and Mining Company, Reese River Mining District, N. T.

NOTICE.—There is delinquent upon the following described stock on account of assessment levied on the 25th day of April, 1864, the several amounts set opposite the names of the respective shareholders as follows:

GEORGE LEET GOLD AND SILVER MINING COMPANY.

Names.	No. Cert.	No. Shares.	Amt.
J M Crump	1	25	$12 50
Mathew Plunkett	95 96 97 98	28	14 00
D Turner	7	5	2 50
John Garber	8	20	10 00
R Craig	9	20	10 00
J M McCloud	10	5	2 50
Robert Litte	12 to 15	46	23 00
Frank Snow	16 125 126 127 128 129	130	100 5-7	50 36
E A Isaacs	17 18 19 20	185 5-7	92 86
John A Weaver	24 121	60 5-7	30 35
George W Leet	56 57 58 59 60 61 62 63 64 65 66 135 136	180 3-7	90 21
Samuel Groves	34 35	15	7 50
Daniel Liggett	36 37 38 39 40 42 122 132	90	45 00
John Liggett	41 to 55	105 5-7	52 86
George S Hupp	79 80	20	10 00
W W Harlman	81 83 84 85 86 99 to 109	157 5-7	78 86
Hiram Stateville	89 90	20	10 00
Plunkett & Dixon	91	25	12 50
B Cathrae	92	10	5 00
Dect. R. Webber	110	30	15 00
Hardenbergh & Dyer	118	40	20 00
W S Head	119	10	5 00
H H Pearson	120	15	7 50
John Ritter	123	5	2 50
Michael Connolly	124	10	5 00
W G Kibbe	131	20	10 00
Geo S Groft	133	5	2 50
Geo S Hendricks	134	5	2 50

CROWN POINT TUNNEL AND MINING COMPANY.

Names.	No. Cert.	Shares.	Amt.
Edward Tompkins	12	100	$50 00
Edward Tompkins	not issued	100	50 00
O B Batey	3	25	12 50
Monroe Tompson	7	200	100 00
J Leffingwell	11	200	100 00
A O Osborn	13	200	100 00
G W Lest	16 to 25	200	100 00

And in accordance with the law and order of the boards of Trustees made on the 25 day of April, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the salesroom of Jerome Rice and Co. No. 327 Montgomery street, San Francisco, on Wednesday the 15th day of June, 1864, at 11 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with cost of advertising and expenses of the sale.

By order of the Board of Trustees.

D. B. FRANCIS, Secretary.

22-2t Office, 509 Clay St., San Francisco.

Scorpion Silver Mining Company, Virginia District, Nevada Territory.

Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Scorpion Silver Mining Company, there will be sold, at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on SATURDAY, May 28th, 1864, at 11 o'clock A. M. of that day, to the highest bidder, for cash, in U. S. coin, so many shares of the capital stock of said Company, standing in the names of the following shareholders, as will be necessary for the payment of an assessment of twenty-five cents per share, duly levied thereon by the Board of Trustees on the 21st day of March, A. D. 1864, and assessments previous thereto, together with the expenses of advertisement and sale, to wit:

Names.	Shares.	Assessments— No 20	No 21	No 22	No 23	No 24	No 25	Amt due,
B Bayesque	12						$3 00	$3 00
J T Hartwell	16					4 00		4 00
J L Bufford	59			14 75	14 75	14 75	14 75	44 25
S W Bufford	24						6 00	6 00
C Broad	10						2 50	2 50
F Bolleau	10			2 50	2 50	2 50	2 50	10 00
Mrs L G Baker	10		2 50	2 50	2 50	2 50	2 50	12 50
S E Barnard	1			25	25	25	25	1 00
Rebecca Bones	4					1 00	1 00	2 00
S L Cofran	20		5 00	5 00	5 00	5 00	5 00	25 00
L Chopard	2			50	50	50	50	1 50
L E Coleman	2					50	50	1 00
Chas Clayton	5						1 25	1 25
C Chevallier	16			4 00	4 00	4 00	4 00	12 00
P Crozet	19						4 75	4 75
W D Dyer	12			3 00	3 00	3 00	3 00	12 00
— Deutsch	3						75	75
M Eldred Jr	115						28 75	28 75
R D Fensler	8			50	50	50	2 00	3 50
H Feusler	4						1 00	1 00
G Gignoux	10						2 50	2 50
F Henderson	228				57 00	57 00	57 00	171 00
H Hentsch	10			2 50	2 50	2 50	2 50	10 00
B A Hendrickson	5						1 25	1 25
J R Hughes	12				3 00	3 00	3 00	9 00
N T Johnson	12			2 50			2 50	5 00
John Kelly	19				6 00	12 25	12 25	30 50
J B Lafargue	2			50	50	50	50	2 00
W W Morgan	2			50	50	50	50	2 00
John McKewen	9						2 25	2 25
John Paine	3	75	75	75	75		75	4 50
Emeline A Paine	3	75	75	75	75	75	75	4 50
M Pratt	2						50	50
F Robinson	100						25 00	25 00
Robt Sherwood	200						50 00	50 00
Norman Smith	10						2 50	2 50
Emma R Scheper	1						25	25
Henry Voliers	5						1 25	1 25
E D Waters	12						3 00	3 00
Eliza A Waters	12						3 00	3 00
Elta Waters	1						25	25

By order of the Trustees. W. H. MARTIN, Secretary.

San Francisco, April 28, 1864. 627 Clay street.

The above sale is postponed until SATURDAY, June 11th, 1864, at same hour and place as above mentioned. By order of the Trustees. W. H. MARTIN, Secretary.

22-td No. 627 Clay street, San Francisco.

Agamemnon Gold and Silver Mining Company. Location, Inyo District, Tulare County, California.

NOTICE.—There is delinquent upon the following described stock on account of assessments of twenty-five cents per share duly levied by order of the Board of Trustees of the above named Company, on the 30th day of October 1863, the several amounts opposite the names of respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amt.
Allen Caswell	1	10	$2 50
Allen Caswell	158	70	17 50
Allen Caswell	not issued	1	25
D. C. Norcross	not issued	19	4 75
P. M. Randall	not issued	29	7 25

And in accordance with law, and an order of the Board of Trustees, made on the 24th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on Wednesday, July 6th, 1864, at 12 o'clock, M., of said day, to pay said delinquent assessments, together with the costs of advertising and expenses of the sale.

J. F. MILLER, Secretary.

Office, No. 416, Washington street, San Francisco. 22-4t

Adelaide Consolidated Silver Mining Company.

Colorado District, El Dorado Canon, Territory of Arizona. Office, 620, Washington street San Francisco.

Notice is hereby given that in accordance with the laws of the State of California, and in pursuance of an order of the Board of Trustees of the Adelaide Consolidated Silver Mining Company, duly made, May 23d 1864, there will be sold at auction at the office of said company, on the 27th day of June 1864, at 2 o'clock, P. M., to the highest bidder for cash in U. S. coin, so many shares of the capital stock of the company standing in the names of the following parties, as may be necessary to pay assessment No. 2 and 3 of fifty cents each, and levied by the Board of Trustees, August 27th, 1863, and December 12th, 1863, and, also, balances and other dues as specified herewith, together with all charges accruing from advertising and sale, unless all such dues are previously paid to the Secretary,

Names	Ass't.	No. Certif.	Shares.	Amt.
F A Burch,	2 and 3	26	15	$15 00
F A Burch,	2 and 3	33	7½	7 50
F A Burch,	2 and 3	35	50	50 00
F A Burch,	2 and 3	36	25	25 00
F A Burch,	2 and 3	163	12	12 00
J S Fitzgerald,	2 and 3	137	50	50 00
J S Fitzgerald,	2 and 3	140	20	20 00
J S Fitzgerald,	2 and 3	141	20	20 00
J S Fitzgerald,	2 and 3	142	20	20 00
J S Fitzgerald	2 and 3	143	20	20 00
J S Fitzgerald,	2 and 3	144	10	10 00
J S Fitzgerald,	2 and 3	145	10	10 00
J S Fitzgerald,	2 and 3	146	10	10 00
S Fitzgerald,	2 and 3	148	50	50 00
S Fitzgerald,	2 and 3	149	50	50 00
S Fitzgerald,	2 and 3	150	20	20 00
S Fitzgerald,	2 and 3	151	20	20 00
S Fitzgerald,	2 and 3	152	20	20 00
S Fitzgerald,	2 and 3	153	20	20 00
S Fitzgerald,	2 and 3	181	4	4 00
S Fitzgerald,	2 and 3	155	10	10 00
S Fitzgerald,	3	156	10	5 00
Charles Hamilton,	2 and 3	89	50	50 00
Charles Hamilton,	2 and 3	94	10	10 00
Charles Hamilton,	2 and 3	98	20	20 00
Charles Hamilton,	2 and 3	227	5	5 00
Charles Hamilton,	2 and 3	217	5	5 00
Charles Hamilton,	2 and 3	216	5	5 00
Charles Hamilton,	2 and 3	219	10	10 00
Charles Hamilton,	2 and 3	220	10	10 00
Charles Hamilton,	2 and 3	222	10	10 00
L B Wooster,	3	113	5	5 00
Joseph Eastis,	2 and 3	196	20	20 00
David Temple,	2 and 3	215	15	15 00
M D Fairchild,	3	164	13	7 50
John Hume,	2 and 3	64	12½	12 50
Frederic Hall,	3	53	20	10 00
R B Wilson,	3	168	10	5 00

2214 RODNEY CLARK, Sec'y.

Gubernadora Silver Mining Company, San Antonio District, Lower California.

Notice.—There is delinquent, upon the following described stock, on account of Assessment levied on the 28th day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amt
John Brazer,	27, 41, 42—5 each	15	$15
John Brazer,	40, 43, 44, 90—10 each	40	40
John Brazer,	45	25	25
John Brazer,	51	30	30
J C Beideman,	100	30	30
Mary A Behan,	228	5	5
Richard Carnell,	181	15	15
A de Castillo,	294	5	5
T H Downing,	119	30	30
E R Hawley,	269, 270—25 each	50	50
Hopps & MacAbee	284	40	40
A H Jordan,	286, 287—25 each	50	50
W H Knapp,	70, 71, 98—10 each	30	30
W H Knapp,	73, 76—15 each	30	30
W H Knapp,	74	20	20
W H Knapp,	77	25	25
H Kilham.	235, 236—10 each	20	20
H Kilham, 237, 238, 239, 240, 241, 242—5 each		30	30
R G McClellan,	20, 21, 22, 23—50 each	200	200
R G McClellan,	21	20	20
R G McClellan,	220, 331—25 each	50	50
R G McClellan,	299	10	10
R G McClellan,	300, 301—5 each	10	10
W E Mayhew,	111	20	20
Charles McDonald,	183	5	5
Charles McDonald,	224	15	15
Chas F Nolte,	245	20	20
J W Sprague,	78, 79—60 each	120	120

And in accordance with law, and an order of the Board of Trustees made on the 28th day of April, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on the 11th day of June, 1864, at the hour of 12 o'clock, M., of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

C. W. HAYDEN, Secretary.

22-2t Office, 625 Clay street, San Francisco

St. Lawrence Gold and Silver Mining Company.

Location, Inyo District, Tulare County, California.

Notice.—There is delinquent upon the following described stock on account of assessments duly levied by order of the Board of Trustees of the above named Company, on the 30th day of October, 1863, the several amounts set opposite the names of respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amt.
Ames Arnold	150	20	$10 00
Martin J. Burk	182	19	9 50
Allen Caswell	168	61 Bal due	19 75
A. Holbub	26	39	19 50
B. McCarty	188	39	19 50
Geo. W. Paget	8	5	2 50
D. C. Norcross	142	6	3 00
D C. Norcross	not issued	20	10 00
P J. O'Connor	140	39	19 50
Chas. Rice	48	2	1 00
Susan L. Lott	49	5	2 50
H. P. Williams	154	19	9 50
Mary T. Rice	99	2	1 00
Elenor J. Lott	101	9	4 50
Elenor J. Lott	102	2	1 00
H. S. Wheeler	87	10	5 00
J. W. O'Brien	120	1	50

And in accordance with law, and an order of the Board of Trustees made on the 24th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on Wednesday, July 6th, 1864, at 12 o'clock N., of said day, to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

J. F. MILLER, Secretary.

Office, No. 416 Washington street, San Francisco.

Rubicon Gold & Silver Mining Company No. 3, Location of mine, Keys District, Owens River, Mono County, California.

Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Rubicon Gold and Silver Mining Company, No. 3, there will be sold, at public auction, to the highest bidder for cash, in U. S. gold coin, on the 17th day of June 1864, at 11 o'clock A. M., of that day, at the office of the Company, No. 7 and 8, third floor, No. 302 Montgomery street, San Francisco, so many shares of the capital stock of the above Company standing in the names of the following persons, or shareholders, as will be necessary for the payment of assessment No. 5, of ten (10) cents per share, duly levied thereon, April 18th, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said assessment and accruing charges are previously paid.

Names.	No. certificates.	No. shares.	Amt.
Aitkin, Saml	214, 217	17	$1 70
Adams, Ellnn & Co	313	50	5 00
Adams, W J	562	200	20 00
Adams, W J	563, 564—ea 100	200	20 00
Adams, W J	565	137	13 70
Allolsher, Bruno	351	5	50
Brank, August	148	10	1 00
Blum, J D	101, 102, 103, 104—ea 25	100	10 00
Baker, E G	199	40	4 00
Boyer, W L	305	4	40
Bennet, Geo	734	25	2 50
Brogan, N	441	5	50
Brasch, H G	657	50	5 00
Brasch, H G	658	30	3 00
Brasch, H G	659	10	1 00
Blakely, R F	472	12	1 20
Bain, Robt	560	50	5 00
Beckford, D R	558, 559, 597, 598—ea 25	100	10 00
Bland, Adam	no cer	150	15 00
Bush, Henry	no cer	150	15 00
Cook, Sarah	29	25	2 50
Cook, Sarah	no cer	125	12 50
Carr, J F	146	25	2 50
Carr, J F	147	50	5 00
Carr, J F	no cer	75	7 50
Cushman, C S	342, 345—ea 25	54	5 00
Chase, H A	386	5	50
Campbell, Chas	495	15	1 50
Chester, Henry	466	50	5 00
Chester, Henry	459	25	2 50
Chester, Henry	603	35	3 50
Chester, Henry	668	6	60
Chester, Henry	669	59	5 90
Chester, Henry	699	150	15 00
Chester, Henry	no cer	150	15 00
Clark, G G	545, 546—ea 25	50	5 00
Chart, Obed	576	37	3 70
Cromwell, J L	670	10	1 00
Cremer, Benj	no cer	150	15 00
Carter, W P	no cer	75	7 50
Doran, David	118	5	50
Doran, David	205	50	5 00
Doran, David	206, 207—ea 35	70	7 00
Derky, Chas	145	2½	25
Dore, Benj	150	25	2 50
Donohue, Wm	309	5	50
Dunscomb, Ed	550	25	2 50
Davis, W G	424	200	20 00
Davis, W G	425, 426—ea 50	100	10 00
Davis, W G	608	55	5 50
Davis, W G 537, 628, 630, 631, 632, 633, 634—ea 25		175	17 50
Davis, W G	701, 729—ea 12	24	2 40
Davis, W G	703	13	1 30
Davis, W G	no cer	33	3 30
Dixon, I	599	50	5 00
Dougart, J J	600	7	70
Doud, Philo	620, 621—ea 9	18	1 80
Doud, Philo	no cer	132	13 20
Doscher, Henry	no cer	143	14 30
Diggins, Wesley	757	100	10 00
Diggins, Wesley	no cer	1400	140 00
Evans, John	2	4	80
Etique, J P	363	50	5 00
Etique, J P	no cer	95	9 50
Estate of E Errickson	353, 518, 519—ea 25	75	7 50
Estate of E Errickson	354	11	1 10
Estate of E Errickson	718	12	1 20
Eichel, C	735	4	40
Ferris, Wm F	127	15	1 50
Folger, Jos	161, 162, 236—ea 5	15	1 50
Folger, Jos	234	10	1 00
Folger, Jos	237	95	9 50
Fogerty, Patrick	226	10	1 00
Fellows, D A	538	25	2 50
Fifield, Wm	739	15	1 50
Fillebrown, Jas	no cer	300	30 00
Gerrick, H P	569	12	1 20
Genung, A M	no cer	150	15 00
Hall, H B	37	140	14 00
Hall, H B	no cer	5	50
Hathaway, Sam'l	196	25	2 50
Harbinger, Carl	144	2½	25
Ham, C W	159	5	50
Ham, C W	no cer	145	14 50
Ham, S A	no cer	150	15 00
Holm, H	294	20	2 00
Holm, H	295, 296—ea 25	50	5 00
Holm, H	297	50	5 00
Hall, Alonzo	325	4	40
Hall, Alonzo	no cer	146	14 60
Hayden, J H	468	25	2 50
Henderson, Thos	405, 406—ea 10	20	2 00
Henderson, Thos	407	50	5 00
Henderson, Thos	616	5	50
Harris, I F	671	25	2 50
Harris, J F	672	50	6 00
Johnson, J B	246, 247, 248, 249, ea 25	100	10 00
Johnson, J B	no cer	1305	130 50
Jeffress, John	258	12	1 20
Jeffress, John	no cer	93	9 30
Kirby, W L	no cer	35	3 50
Kennedy, John	254	25	2 50
Kennedy, John	no cer	118	11 80
Kneedler, Jno	260	12	1 20
Kneedler, Jno	261	50	5 00
Kneedler, Jno	358	5	50
Kneedler, Jno	no cer	58	5 80
Kennedy, Thos	337, 417, ea 5	10	1 00
Kennedy, Thos	no cer	140	1 40
Keandey, Jas	no cer	150	15 00
Kimball, M H	no cer	42	4 20
Lane, Levi C	14, 15	125	12 50
Lovejoy, A J	83	25	2 50
Lovejoy, A J	276	12	1 20
Louterwasser, C	203	25	2 50
Louterwasser, C	no cer	235	23 50
Lewlson, Lewis	190, 191, 192, ea 1 00	300	30 00
Loudon, Wm	331	5	50
Leggett, Thos W	404	10	1 00
Lee, Chas	526	8	80
Lee, Chas	577	13	1 30
Lee, Chas	609	20	2 00
Lauadry, Lewis	497	12	1 20
Lyon, Wm S	503	29	2 90
Lyon, Wm S	732	7½	75
Long, E, Estate of	511	315	31 50
Long, E, Estate of	512	150	15 00
Luelling, W H	542	240	24 00
Lovely, Horaco	653	25	2 50
Lord, A J	676	12	1 20
Louterwasser, F P	733	12	1 20
Martin, Wheeler	4	25	2 50
Martin, Wheeler	35, 40, 41—ea 30	90	9 00
Martin, Wheeler	no cer	675	67 50
McCord, Robert	30	75	7 50
Main, E F	78	5	50
Mitchell, D H	333, 436—ea 25	50	6 00
Mitchell, D H	449, 450, 464—ea 12	36	3 60
Mitchel, H H	462	10	1 00
Myers, Finkus	99	75	7 50
Motteler, Fred	378	12	1 20
Motteler, Fred	380, 381, 382, 383, 384—ea 20	100	10 00
Motteler, Fred	385	21	2 10
Mahan, H H	183	25	2 50
Mallen, Jno	227	5	50
Molt, Jno P	666, 667—ea 25	50	5 00
Miller, Peter C	356	7	70
Miller, Peter C	640, 641, 642—ea 25	75	7 50
Miller, Peter C	no cer	193	19 30
Mayhew, G S	408	5	50
Mayhew, G S	430	50	5 00
Mayhew, G S	494	25	2 50
Merrill, I L	481	25	2 50
Martell, Jno	507	20	2 00
Middleton, J H	539	12½	1 25
Mahm, Anna	573	10	1 00
Mahm, Anna	574	65	6 50
Miller, M M	611	150	15 00
Mason, J H	622	12	1 20
Moore, J J	711	25	2 50
McIver, John	730	10	1 00
Myrick, J W	no cer	150	15 00
Nahl, H W A	410	25	2 50
Norman, D	438	25	2 50
Noble, J W	596	20	2 00
O'Connell, James	271, 272—ea 50	100	10 00
O'Connell, James	273, 274—ea 25	50	6 00
Porter, Thos H	188	10	1 00
Porter, Thos H	no cer	105	10 50
Patterson, John	389	20	2 00
Patterson, John	494	150	15 00
Plumner, J S	413	10	1 00
Perkin, Wm	473	19	1 90
Pickett, E W	689	150	15 00
Pickett, E W	690	50	5 00
Pervear, T J	21	53	5 30
Pervear, T J	31	75	7 50
Pervear, T J	287	15	1 50
Pervear, T J	300	3	30
Raymond, Chas	186	100	10 00
Rath, Elias	377	5	50
Reas, J E	415	20	2 00
Reas, J E	731	25	2 50
Richards, I	434	75	7 50
Reas, H M	708	20	2 00
Ramsey, Peter	537	5	50
Robinson, W E	645, 646, 647, 648—ea 25	100	10 00
Riley, C C	696	75	7 50
Riley, C C	697	50	5 00
Reynolds, John	no cer	450	45 00
Santif, N	124	150	15 00
Santif, M	125	75	7 50
Santif, M	126, 129, 130—ea 25	75	7 50
Stewart, James	210, 211	18	1 80
Stitt, Robert	489	50	6 00
Stitt, Robert	745	46	4 60
Smith, Wm	218, 219, 220, 221, 222, 223—ea 25	150	15 00
Schmidt, J C	508	134	13 40
Spalding, C A	330, 376—ea 25	50	5 00
Spalding, C A	374, 375—ea 50	100	10 00
Sutherland, Jacob	345	62	6 30
Sanchez, F	486, 488—ea 12	24	2 40
Sanchez, F	548	13	1 30
Spencer, O W	549	75	7 50
Spencer, O W	655	18	1 80
Spencer, O W	no cer	1,357	135 70
Swain, R R	635	25	2 50
Stadtfelt, Mary	656	7	70
Silver, Frank	688	15	1 50
Simpson Geo	698	12	1 20
Smith, Richard	712	25	2 50
Santif, Jos	no cer	150	16 00
Shoemaker, F	708	73	7 30
Tunock, A	275	2	20
Tyler, B F	306	3	30
Terhune, C P	310	10	1 00
Tengstrom, A	no cer	138	13 80
Taylor, Jno R	602	15	1 50
Van Hagan, I P	120	25	2 50
Van Hagan, I P	520, 621, 522, 523, 624, 526 ea 12	72	7 20
Van Hagan, I P	no cer	1,148	114 80
Vongundy, Jos	193, 194—ea 25	50	5 00
Vongundy, Jos	224	12	1 20
Vongundy, Jos	no cer	388	38 80
Van Hagan, J B	368	25	2 50
Von Poser, H	547	12	1 20
Van Vleck, D	750	250	25 00
Wadsworight, Wm	97	10	1 00
Wadsworight, Wm	453	65	6 50
Winslow, E G	478	27½	2 75
Wunonberg, N H	133	25	2 50
Wunenberg, N H	135	50	5 00
Wunenberg, N H	136, 137, 138—ea 5	15	1 50
Wunenberg, N H	421	10	1 00
Wunenberg, N H	422	30	3 00
Ware, Jos	245	2	20
Ware, Jos	607	6	60
Ware, Jos	694, 695—ea 12	24	2 40
Ware, Jos	738	75	7 50
Ware, Jos	749	25	2 50
Ware, Jos	no cer	129	12 90
Wickberry, Francis	743	100	10 00
Wickberry, Francis	746	175	17 50
Weston, D S	370	2½	25
Wymaa, F C	414	20	2 00
Wood, W C	500	25	2 50
Walmesly, W W	615	5	50
Young, Richard	32	75	7 50
Young, Richard	no cer	25	2 50

By order of the Board of Trustees.

J. P. VAN HAGAN, Secretary.

Office, No. 302 Montgomery street, No. 7 and 8, 3d floor, San Francisco, May 27, 1864. 22-2t

Lewis Consolidated Gold and Silver Mining Company.

Nicolaus Gold and Silver Mining Company, Reese River Mining District, N. T.

Notice.—There is delinquent upon the following described stock, on account of assessment levied on the 25th day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

LEWIS CONSOLIDATED GOLD AND SILVER MINING COMPANY.

Names.	No. cert.	No. Shares.	Amt.
Frank Snow.....32 40 41 61 62 63 64 65 66	117 to 134	500	$125 00
Geo W Leet..... 11 52 to 60 and 67 to 83		400	100 00
S McBrowo.....	21 85	75	18 75
John A Weaver.... 22 23 26 27 28 29 30 116		400	100 00
F A Isaacs.....	42 to 51	500	125 00
A Hartman	84	25	6 25
R Smith..... ...	86	33	8 25
W W Hartman.....	87 to 106	342	85 50
John Hill.....	107 108 109	50	12 50
Robert Little.....	110 to 114	50	12 50
Hardenbergh & Dyor.	115	100	25 00
R Huckins.....	not issued	25	6 25

NICOLAUS GOLD AND SILVER MINING COMPANY.

Names.	No. Cert.	No. Shares.	Amount.
W G Phillips.....	2	10	$2 50
W W Colo.....	4 and 17 to 25	150	37 50
E Hamel.....	6	37½	9 37
M G Lee.....	8 9 and 11 to 15	165	41 25
B Toland.....	7	37½	9 38

And, in accordance with law, and an order of the Board of Trustees, made on the 25th of April, 1864, so many Shares of each parcel of said Stock as may be necessary, will be sold at the Salesroom of Jerome Rice & Co., 327 Montgomery street, San Francisco, on Wednesday the 15th day of June, 1864, at the hour of 11 o'clock, A. M., of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

By order of the Board of Trustees.

D. B. FRANCIS, Secretary.

22-2t Office, 509 Clay Street, San Francisco.

Business Cards.

T. C. SANBORN & CO.
Stock Brokers,

No. 630, Montgomery Street,.....San Francisco.

OPHIR SILVER MINING STOCK,
GOULD & CURRY MINING STOCK,
CHOLLAR MINING STOCK,
CALIFORNIA STEAM NAVIGATION COMPANY'S STOCK,

☞ BOUGHT AND SOLD. ☜

jltf.

COMMISSIONER OF DEEDS
For Arizona Territory,

B. W. MUDGE,

16v8-3m **No. 528 Clay street, San Francisco.**

C. A. CRANE. A. E. CRANE.

CRANE BROS.,
Stock and Exchange Brokers,

No. 614 Montgomery st., Stall No. 5, Stock Exchange, San Francisco.

☞ All kinds of Stocks Bought and Sold on Commission. 14

W. O. ANDREWS,
NOTARY PUBLIC,
—AND—
Commissioner of Deeds for Nevada Territory.

Office, Montgomery Block, 630 Montgomery Street,
10v8-2m SAN FRANCISCO.

H. C. KIBBE,
Mining Secretary,
Commissioner for Nevada Territory,

22 Lyceum building, cor. Washington and Montgomery sts.,
10v8-tf SAN FRANCISCO.

WM. S. LYON & CO.,
Stock and Exchange Brokers,

308 Montgomery Street, corner of Pine,
SAN FRANCISCO.

QUARTERMASTER'S WARRANTS BOUGHT. THE HIGHEST Price paid for Legal Tender Notes. Open till 9 P. M. 1-3m

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REMOVAL.

J. R. BEARD, STOCK BROKER,

MEMBER SAN FRANCISCO STOCK AND EXCHANGE BOARD,
HAS REMOVED HIS OFFICE TO
5v8-tf No. 707 Montgomery street, Brokers Block.

Geo. F. M. Glover,

PREMIUM ORNAMENTAL AND FANCY PAPER CUTTER AND DECORATOR.

HALLS, DINING ROOMS, SALOONS, PRIVATE PARLORS, Steamboats, &c., Decorated in the latest and neatest style, Mirrors, Pieture Frames, Chandeliers, &c., decorated with Tarlton or Paper. Particular attention paid to the decoration of Private Parlors. Address Box, 1,770, San Francisco Post Office. Can be found at W. S. Lyons & Co.'s, 304 Montgomery St., cor. of Pine. 15

W. P. DENCKLA. A. L. CHAMBERLIN.

DENCKLA & CHAMBERLIN,
Stock and Exchange Brokers,

S. W. corner of Clay and Montgomery streets,
SAN FRANCISCO.

☞ Deeds, etc., for record in Humboldt County, Nevada Territory, received and forwarded. 1-tf

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MUTUAL
Life Insurance Company,
—OF NEW YORK—
Capital, : : : : : : : : : : $9,750,000.

H. S. HOMANS, Agent for California.

H. S. HOMANS,
NOTARY PUBLIC,
And Commissioner of Deeds for Nevada Territory,

MINING SECRETARY, CONVEYANCER, ETC.,
Northeast corner of Montgomery and Merchant Streets.

THOS. DAVENPORT. W. B. SMITH

DAVENPORT & SMITH,
Mining and General Accountants,

SCRIVENERS, CONVEYANCERS, ETC.

Office, No. 14 Government Block, N. W. corner of Sansome and Washington streets, San Francisco.

REFER BY PERMISSION TO

Donohoe, Ralston & Co, Bankers. | J. C. Sanborn & Co., Brokers.
Sather & Co., Bankers. | Ross, Dempster & Co., Merchants.
John Parrott, Esq., Banker. | Dibblee, Hyde & Co., Merchants.
James J. Robbins, Esq., Brokcr. | Dickson, DeWolf & Co., Mer'chts

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REMOVAL.

THE OFFICE OF DEETKEN & CO'S METALLURGICAL WORKS HAVE BEEN REMOVED FROM 605 to 315 MONTGOMERY ST., SAN FRANCISCO.

16 A. MARCUS, Secretary.

Owen's River Canal Company.

FOR SALE, FOR ACCOUNT OF THE COMPANY, 7,000 SHARES of the above stock, at $1 per share. It is confidently presented to the public as the best investment, for the price, now offered this market.
Office of the Company No. 325 Montgomery street. 11f

W. R. MAURICE,
Stock Broker, Real Estate Agent
And Mining Secretary.

Office, No. 708 Montgomery Street, San Francisco. Reference—Messrs, Parrott & Co., Bankers. 8v8.tf

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THOMAS HILL,
Member of the S. F. Stock and Exchange (1st) Board.
A. H. MURDOCK,
Member of Stock Exchange,

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Mining and Real Estate Agent,

Office, S. W. corner Pine and Silver Sts., Aurora.

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And Manufacturers of California Pails, Tubs, Brooms, Etc.,

217 and 219 Sacramento St., between Front and Davis,
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General Furnishing Undertaker,

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PHILLIPS & CO.,
(Successors to W. H. Baxter & Co.,)
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BRIDLES, WHIPS, COLLARS, SADDLERY WARE, Etc.,

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Book-Binders, Paper-Rulers,
And Blank-Book Manufacturers.

No. 509 Clay street and 508 Commercial street, between Montgomery
4v8-tf and Sansome, San Francisco.

Coal Creek Coal Mining Company.

Located near Geyserville, Sonoma County, California, containing 320 acres.

CAPITAL STOCK,.....$120,000
600 Shares.....$200 Per Share.

Office of the Company, Room, 18 Phœnix Building, corner of Sansome and Jackson streets, San Francisco.

A. P. McCARTY.....President.
D. S. CUTTER,.....Secretary & Treasurer.

TRUSTEES:

JOHN J. HUCKS,.....San Francisco.
GEO. H. BAKER,.....San Francisco.
P. T. ARCHAMBOU,.....Goyscrville.
19-3m

L. A. FINE. JAMES A. OWENS.

OWENS & FINE,
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IN ALPINE COUNTY.

OFFICE.—Mammoth Hotel, Main Street, between Second and Third, Silver Mountain. 20-3m

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W. E. ROBINSON. J. B. MEGARRIGLE.

ROBINSON & CO.,
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Conveyancers and Mining Agents,

536 Washington Street, between Montgomery & Sansome,
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MEXICAN MINING STOCKS,
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jlt WM. FAULKNER.

RICHARD S. CLARK,
MINING SECRETARY,
Accountant and Copyist.

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H. S. Sanders & Co.,
Stock Brokers,
Members of the Stock & Exchange (1st) Board and of the Pacific Board of Brokers.

No. 546 Washington street, San Francisco. 12-m

HENRY SCHMIEDELL,
(Member of the San Francisco Stock and Exchange Board,)
Stock Broker & Real Estate Agent,

Office, 705 Montgomery Street, San Francisco. 18-m

WARRIN, SMITH & CO.,
Commission Merchants,
—ALSO—
REAL ESTATE, STOCK AND EXCHANGE BROKERS,

Members of the San Francisco Board of Brokers Members of the Pacific Board of Brokers.
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Evening Instructions in Anylitical Chemistry and Assaying,
Conducted by Thomas Price.
(Agent for the Swansea Ore Importers in California.)

HAVING FITTED UP A LABORATORY ESPECIALLY FOR INstruction in Analysis and Assays, the subscriber begs leave to announce that

A NEW CLASS WILL BE FORMED

On the 1st of June. For terms apply at the Laboratory, on the evenings of Tuesday and Saturday, at 7 o'clock; or at the office of the "Pacific Mineral Company," Odd Fellow's Hall, Montgomery street. THOMAS PRICE.
San Francisco, May 10th, 1864. 20

The Annual Meeting of the Stockholders of the Pioneer Coso Gold and Silver Mining Company, Coso District, for the election of Trustees and the transaction of other business, will be held on WEDNESDAY, the 6th day of July, 1864, at 3 o'clock P. M., at the office of the Secretary, No. 305 Montgomery street, San Francisco. A punctual attendance is requested.

J. S. LUTY, Secretary.

San Francisco, June 2, 1864. 23-4t

Wyandotte Mining Company, Amador District, N. T.

The first ANNUAL MEETING of the Stockholders of the Wyandotte Mining Company, for the election of Trustees, will be held at the office of the company, No. 620, Washington street, on Tuesday, June 28th, 1864, at 7½ P. M.

23-4t W. AUGS. KNAPP, Secretary.

Coso Silver Mining Company, Coso District, Tulare county, California.

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 2d day of June, 1864, an Assessment of one dollar per share was levied upon the Capital Stock of said Company, payable immediately, in United States Gold or Silver Coin, to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday the 2d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 16th day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of sale. By order of the Board of Trustees.

D. W. CHAMBERS, Secretary.

23-4t Office, No. 636 Clay street, San Francisco.

Henry and Barnard Consolidated Gold, Silver and Copper Mining Company, Arizona Territory.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 2nd day of June, 1864, an Assessment of Twenty (20) cents per share was levied upon the Capital Stock of said Company, payable on the 3d day of June, 1864, in United States Gold Coin, to the Secretary, at his office.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 2nd day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 18th day of July, 1861, to pay the delinquent Assessment, together with costs of Advertising and expenses of the Sale.

On all Certificates of Stock advertised for sale as delinquent, the holders will be charged by the share to pay expenses.

A discount of three per cent. will be deducted on all assessments paid on or before the 11th day of June. By order of the Board of Trustees. I. M. BLOOD, President.

GEO. W. GILDERSLEEVE, Secretary. (23-4t)

Office, 302 Montgomery St., third floor, room 5, San Francisco.

Astor Ledge and Company, Big Creek District, Lander county, Nevada Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 11th day of May, 1864, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable immediately to the Secretary, at No. 3, Armory Hall, 3d floor, corner of Montgomery and Sacramento streets.

Any stock upon which said assessments shall remain unpaid on the 11th day of June, 1864, will be advertised on that day as delinquent and unless payment shall be made before, will be sold on the 29th day of June, 1864, to pay the delinquent assessments, together with costs of advertising and expenses of the sale.

S. PURDY, Secretary.

Office, Armory Hall, Montgomery and Sacramento sts. 20-4t

Baltimore Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held May 30th, 1864, an assessment (No. 2) of seventy-five cents per share was duly levied, payable in U. S. coin, to J. Warren Clark, Secretary, 430 Montgomery street, San Francisco, or to H. J. Hawkins, Treasurer, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 15th day of July, 1861, at the office of the Company, at 2 o'clock P. M., to pay the delinquent assessments and cost of advertising and expenses of sale. By order of the Board of Trustees.

J. WARREN CLARK, Secretary.

Office, No. 430 Montgomery street, No. 5, 3d floor, San Francisco.

San Francisco, June 3, 1864. 23-4t

San Francisco Gold and Silver Mining Co.
Sierra Madre Gold and Silver Mining Company.
Empire Gold and Silver Mining Company, Rock Spring District, San Bernardino county, California.

Notice is hereby given that at a meeting of the Board of Trustees of said companies, held on the 31st day of May, 1864, an assessment of five cents per share was levied upon the capital stock of each of said Companies, payable on the 2d day of June, 1864, in United States gold coin, to the Secretary.

Any stock upon which said assessments shall remain unpaid on Saturday the 2d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 16th day of July, 1864, to pay the delinquent assessments, together with costs of advertising, and expenses of the sale. By order of the Board of Trustees.

G. ROWER, Secretary.

23-4t Office, No. 611 Clay street, San Francisco.

Gold Rock Gold and Silver Mining Company, Murphy's Camp, Calaveras county, California.

Notice is hereby given that at a Meeting of the Board of Trustees of said Company, held on the 30th day of May, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable immediately, in United States gold coin, to the Secretary,

Any stock upon which said Assessment shall remain unpaid on Saturday, the 2d day of July, 1864, will be advertised on that day, as delinquent, and unless payment shall be made before, will be sold on FRIDAY, the 22 day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale. By order of the Board of Trustees.

EM. FENARD, Secretary.

23-4t Office, 433 Montgomery Street, San Francisco.

Is is full of the most valuable roading matter. Those at all interested in mining affairs should subscribe for it at once.—*Alameda Gazette.*

It is devoted to news, art, science and progress, and should receive a liberal support.—*Solano Press.*

Peaslee & Sparks Gold and Silver Mining Company, Reese River District, Lauder county, Nevada Territory.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 28th day of May, 1864, an assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable on the 1st day of June, 1864, in United States gold coin, to the Secretary, or to R. T. Hill, Superintendent, Austin, Nevada Territory.

Any Stock upon which said assessment shall remain unpaid on Saturday, the 2d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 16th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. F. HUGHES, Secretary.

23-4t Office, No. 305 Montgomery street, San Francisco.

Lady Adams Gold and Silver Mining Company, Reese River District, Lander county, Nevada Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 28th day of May, 1864, an Assessment of 20 cents per share was levied upon the Capital Stock of said Company, payable on the 1st day of June, 1864, in United States gold coin, to the Secretary, or to R. T. Hill, Superintendent, Austin, Nevada Territory.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 2d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 16th day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. F. HUGHES, Secretary.

23-4t Office, No. 305 Montgomery street, San Francisco.

Gertrude Gold and Silver Mining Company, Reese River District, Lander county, Nevada Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 28th day of May, 1864, an Assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable on the 1st day of June, 1864, in United States gold coin, to the Secretary, or to R. T. Hill, Superintendent, at Austin, Nevada Territory.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 2d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 16th day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. F. HUGHES, Secretary.

23-4t No. 305 Montgomery street, San Francisco.

Monarch Gold and Silver Mining Company, Reese River District, Lander County, Nevada Territory.

Notice is hereby given that at a Meeting of the Board of Trustees of said Company, held on the 28th day of May, 1864, an Assessment of 25 cents per Share was levied upon the Capital Stock of said Company, payable on the 1st day of June, 1864, in United States Gold Coin, to the Secretary, or to R. T. Hill, Superintendent, Austin, N. T.

Any Stock upon which said Assessment shall remain unpaid on Saturday, the 2nd day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 16th day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the Sale. By order of the Board of Trustees.

W. F. HUGHES, Secretary.

23-4t Office, No. 305 Montgomery Street, San Francisco.

La Favorita Mining Company, Montezuma District, Sonora, Mexico.

Notice.—There is delinquent upon the following described stock, on account of assessments levied on the 3d day of May, 1864, and assessments levied previous thereto, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. of temporary Certificates.	No. Shares.	Amt.
J B Neustadter,	8	5	$17 50
J B Neustadter,	not issued	35	122 50
Joseph H Frank	6	5	17 50
Joseph H Frank,	not issued	35	122 50
Henri J Hellman,	50	10	27 50
Henri J Hellman,	51	5	13 75
Henri J Hellman	52	5	13 75
Henri J Hellman.	53	5	13 75
Henri J Hellman,	54	5	13 75
Henri J Hellman,	55	5	13 75
Henri J Hellman,	not issued	45	123 75
N Del Blanco,	not issued	80	140 00

And in accordance with law, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Jerome Rice & Co., Auctioneers, No. 327 Montgomery street, San Francisco, on WEDNESDAY, the 18th day of June, 1864, at 11 o'clock A. M. of said day, to pay said delinquent assessments thereon, together with costs of advertising and expenses of sale.

ELKAN WASSERMANN, Secretary.

Office, No. 429 Sacramento street, San Francisco.

San Francisco, June 4th, 1864. 23-3t

Diamond Mining Company, Santa Catalina Island California.

Notice.—There is delinquent upon the following described stock, on account of assessment levied on the 27th day of January, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amt.
C H Taft	not issued	88	$13 20
J D Nichols,	22	88	bal 2 08
P Ide,	55	87	bal 3 08
J M Merrill,	not issued	88	13 20
S C Gardner,	not issued	88	13 20
W Diggings,	not issued	88	bal 8 20
Hicks & Carson,	40, 41, 42	88	bal 9 15
Wm J Woodley,	78	50	bal 1 23
Henry Bush,	not issued	88	13 20
Henry Bush, first assessment, levied Jan. 2, 1864,			8 80

And in accordance with law, and an order of the Board of Trustees, made on the 31st day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the office of the Secretary, on WEDNESDAY, the 6th day of July, 1864, at 12 o'clock, M., to pay said delinquent assessments thereon, together with costs of advertising and expenses of sale.

(23-4t) A. G. WOOD, Secretary.

Office, 240 Montgomery street, No. 4, 2 dfloor, San Francisco.

Mountain Mary Gold and Silver Mining Company, Silver Mountain, Alpine county, Cal.

Notice.—There are delinquent upon the following described stock on account of Assessment levied on the 23d day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:—

Names.	No. Certificate.	No. Shares.	Amt.
Goodell, C.	not issued	250	$62 50
Hulme, Samuel	not issued	100	25 00
Osborn, Charles	not issued	50	12 50
Skinner, M. B.	not issued	240	60 00
Sykes, J. H.	not issued	125	31 25
Sheldon, Mary A.	not issued	125	31 25
Wright, J. O.	not issued	25	6 25

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of April, 1864, so many shares of said stock as may be necessary, will be sold, at the office of the Company, on the 16th day of June, 1864, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

J. WARREN CLARK, Secretary.

Office, No. 430 Montgomery street, Room No. 5, 3d floor, San Francisco. 22-2t

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IT WILL SAVE EACH SEASON MANY TIMES ITS COST IN friction, time, steam and power. No engine, old or new, should be without it. It can be easily fitted to old or new Pistons.

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23v8 Golden State Iron Works, San Francisco.

OTIS V. SAWYER,
NOTARY PUBLIC,
And Commissioner for Nevada Territory.

Office, 608 Montgomery street, San Francisco.

Having resigned my Notarial Commission, I solicit for my late partner, OTIS V. SAWYER, from the community, and particularly from my individual friends, their patronage in all things that require the services of a Notary Public.

23-4t W. W. WIGGINS.

Dissolution of Copartnership.

The Copartnership heretofore existing between George Gibbons and W. J. Woodley is this day, the 20th of April, 1864, dissolved by non-agreement of the above parties.

CAUTION.—The public against negotiating or purchasing any mining stock heretofore existing under and in said partnership.

GEORGE GIBBONS.

Santa Catalina Island, Los Angeles Co., 20th April, 1864. 21-4t*

HUCKS & LAMBERT,

ORIGINAL MANUFACTURERS OF THE

Celebrated H. & L. Axle Grease,

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N. SCHWARTZ,
R. SHIELDS,
D. S. DONELTY,
J. F. FLYNN

San Francisco, May 24, 1864. 22-tf

The Daily Evening Express, at Victoria, Vancouver Island is published by Messrs Wallace, Allen & Hardynge. Terms of subscription: One year, by mail, $10; six months, $6. It contains the late, Mining, Commercial, and General News up to the hour of going to press. Being the ONLY EVENING PAPER published in Victoria, and having a circulation equal to any other Journal in the Colony, it will be found an excellent medium to enable advertisers to bring their notices before the Public. W. H. TOBEY, Agent, Government House, San Francisco. 15-tf

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Cortez Gold and Silver Mining Company, Cortez District, Nevada Territory,

NOTICE.—There are delinquent, upon the following described Stock, on account of Assessment levied on the 27th day of April, 1864, the several amounts set opposite the names of the respective Shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amt.
Blasdel, H G	240	50	$125
Booth, L A	45	100	250
Booth, L A	46	100	250
Booth, L A	47	50	125
Booth, L A	264	50	125
Ball, N A H	66	20	50
Ball, N A H	67	20	50
Ball, N A H	68	20	50
Ball, N A H	69	20	50
Ball, N A H	70	20	50
Ball, N A H	71	10	25
Ball, N A H	72	10	25
Ball, N A H	73	5	12 50
Bee, A W	192	100	250
Bee, A W	193	100	250
Broughton, Alice W	22	2	5
Broughton, Emma C	23	2	5
Blake, Wm P	280	20	50
Blake, Wm P	281	20	50
Blake, Wm P	282	20	50
Blake, Wm P	283	20	50
Blake, Wm P	284	20	50
Collins, John A	253	100	250
Collins, John A	254	25	62 50
Collins, John A	255	25	62 50
Collins, John A	256	17	42 50
Currie, Eliza M	117	10	25
Currie, Elizn M	118	10	25
Currie Eliza M	119	5	12 50
Currie, Eliza M	120	5	12 50
Currie, Eliza M	121	5	12 50
Clary, W H	265	25	62 50
Durning, Charles	179	5	12 50
Durning, Charles	180	5	12 50
Durning, Charles	181	5	12 50
Durning, Charles	182	5	12 50
Durning, Charles	293	130	325
Doling, P F	88	50	125
Day, H H	94	50	125
Earl, E M	95	25	62 50
Earl, E M	96	50	125
Earl, E M	97	100	250
Earl, E M	98	200	500
Eastland, Joseph G	24	25	62 50
Farrell, H	30	125	312 50
Farrell, H	31	125	312 50
Farwell, W B	115	50	125
Ferris, M J	210	25	62 50
Ferris, M J	211	25	62 50
Ferris, M J	212	25	62 50
Ferris, M J	213	25	62 50
Ferris, M J	214	25	62 50
Garrison, W R	123	288	720
Garnett L A	290	166	415
Gordon, John	21	25	62 50
Gordon, John	270	25	62 50
Gordon, John	271	25	62 50
Howard, B C	133	5	12 50
Hathnway B W	6	62	155
Hathaway B W	7	2	5
Ireland, L F	82	25	62 50
Ingols, N L	262	25	62 50
Jones, E J Mrs.	8	25	62 50
Jones, E J Mrs.	261	25	62 50
Jones, E J Mrs,	259	50	125
Jones, Rowland	136	13	32 50
Jones, Rowlnud	225	6	15
Jnckson, E	237	5	12 50
King, S T	140	10	25
King, S T	141	10	25
King, S T	142	10	25
King, S T	274	50	125
King, S T	275	25	62 50
King, S T	276	25	62 50
Lebmann. Christian	100	5	12 50
Leavitt, John	50	50	125
Leavitt, John	201	50	125
Leavitt, John	202	50	125
Lenvitt, John	203	25	62 50
Leavitt, John	204	25	62 50
Leavitt, John	205	25	62 50
Leavitt, John	206	25	62 50
Leonard, E W	277	25	62 50
Merrill, I M	222	250	625
Merrill, I M	223	50	125
Merrill, I M	224	31	77 50
McCurdy, Snml	183	250	500
McCurdy, Snml	184	180	450
Macpherson, A W	289	229	572 50
May Fredrick	130	100	250
Mermond, Louis	194	2	5
Moore, M R Mrs	238	200	500
Moore, J Preston	239	50	125
McGinnis, Terry	235	50	125
McGinn s, Terry	236	50	125
McGinnis, Terry	287	50	125
Perley, D W	25	200	500
Perley, D W	26	200	500
Perley, D W	27	50	125
Perley, D W	28	50	125
Perkins, R F	20	4	10
Passmore,	250	20	50
Rand, C W	126	32	80
Steinbrng, Chas	195	18	45
Sprott, Henry	226	10	25
Townsend, T B	99	10	25
Taylor, John	172	5	12 50
Taylor, John	249	60	150
Veatch, A A	150	5	12 50
Veatch, A A	151	5	12 50
Veatch, A A	152	5	12 50
Veatch, A A	153	5	12 50
Veatch, A A	154	5	12 50
Veatch, A A	155	5	12 50
Veutch, A A	156	10	25
Veatch, A A	157	10	25
Veatch, A A	158	10	25
Veatch, A A	159	10	25
Veatch, A A	160	10	25
Veatch, A A	161	10	25
Veatch, A A	162	10	25
Veatch, A A	163	10	50
Veatch, A A	164	20	50
Veatch, A A	165	20	50
Veatch, A A	166	20	50
Veatch, A A	167	20	50
Veatch, A A	168	20	50
Veatch, A A	169	20	50
Veatch, A A	170	20	50
Veatch, Ada	143	5	12 50
Veatch, Ada	144	5	12 50
Veatch, Ada	145	5	12 50
Veatch, Ada	146	5	12 50
Veatch, Ada	147	7	17 50
Veatch, Ada	148	8	20
Vandervoort, J C	268	25	62 50
Vandervoort, J C	269	25	62 50
Ware, William	29	125	312 50
Wilson, James	54	20	50
Wilson, James	57	20	50
Wilson, James	60	25	62 50
Wilson, James	74	10	25
Wilson, James	78	10	25
Wilson, James	80	10	25
Wil-on, James	81	10	25
Wilson, James	85	5	12 50
Wetherbee, H	12	100	250
Wetherbee, H	13	50	125
Wetherbee, H	14	10	25
Wetherbee, H	15	10	25
Wetherbee, H	16	10	25
Wetherbee, H	18	2	5
Wilson, E	251	50	125
Wilson, E	252	24	60
Wil on, E	267	25	62 50
Wilson, Thomas	233	5	12 50
Wilson, Thomas	234	5	12 50
Wulker, David	137	5	12 50
Wnlker, David	138	4	10

And in accordance with law and an order of the Board of Trustees, made the same date, so many shares of each parcel of said stock as may be necessary, will be sold at the salesroom of Messrs. Jerome Rice & Co., 327 Montgomery Street, San Francisco, on Monday the 20th day of June, 1864, at 12 o'clock M., to pay said delinquent assessments thereon, together with cost of advertising and expenses of the sale.

R. N, VAN BRUNT, Secretary.

23-4t Office, 706 Montgomery street, San Francisco

Itasca Silver Mining Company, Kelly Ledge, Reese River District, Lander county, N. T.

NOTICE.—There is delinquent upon the following described stock on account of assessment levied on the 4th day of May, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certif.	No. Shares.	Amt.
Alexander, J D	52	6¼ bal.	$1 56
Alexander, J D	53	30 bal.	7 50
Alexander, J D	54	24 bal.	6 00
Bergson, Ole	95	25 bal.	6 25
Bergson, Ole	96	25 bal.	6 25
Bergson, Ole	97	0 bal.	2 25
Butterfield, R	76	20 bal.	7 00
Butterfield, R	77	20 bal.	5 00
Butterfield, R	78	10 bal.	2 50
Butler, Mary	130	5 bal.	1 25
Couuor, P	not issued	100 bal.	35 00
Clark, H W	152	7¾ bal.	1 93
Carle A J	165	140 bal.	49 00
Carle, A J	166	50 bal.	17 50
Dwyer, David	182	5 bal.	1 25
Forster, Peter B	38	10 bal.	3 59
Forster, Peter B	30	10 bal.	3 50
Forster, Peter B	40	5 bal.	1 75
Forster Peter B	90	100 bal.	35 00
Forster, Peter B	91	50 bal.	17 50
Forster, Peter B	92	25 bal.	8 75
Gardner, S C	172	10 bal.	2 50
Gardner, S C	173	20 bal.	5 00
Gardner, S C	174	20 bal.	5 00
Gardner, S C	175	20 bal.	5 00
Gardner, S C	176	20 bal.	5 00
Gardner, S C	177	17½ bal.	4 37
Gartner, N	57	100 bal.	35 00
Gartner, N.	58	25 bal.	8 75
Gartner, N	59	25 bal.	8 75
Gartner, N	60	25 bal.	8 75
Gartner, N	61	25 bal.	8 74
Greene, Edmund	121	10 bal.	3 50
Howes, E F	151	10 bal.	2 50
Leonard, E A	not issued	155	66 00
Lovely, Nobio	41	100 bal.	35 00
Lovely, Noble	42	50 bal.	17 50
Lovely, Nobie	43	50 bal.	17 50
McKenzie, Alex	207	5 bal.	1 25
McCarthy, T	102	25 bal.	8 75
McCarthy, T	103	50 bal.	17 50
McCarthy, T	104	5 bal.	1 75
McCarthy, T	105	10 bal.	3 50
McCarthy, T	106	10 bal	3 50
McCarthy, T	107	25 bal.	8 75
McCarthy, T	108	25 bal.	8 75
McCarthy, T	109	25 bal.	8 75
McCarthy, T	110	25 bal.	8 75
Morey, W R	194	25 bal.	5 00
Marshall, H H	206	5 bal.	1 25
Pool, Chas W	214	10 bal.	2 50
Peabody, Joseph A	111	25	10 00
Randall, A G	80	50 bal.	17 50
Randall, A G	81	50 bal.	17 50
Randall, A G	82	50 bal.	17 50
Randall, A G	83	25 bal.	8 75
Randall, A G	84	20 bal.	7 00
Saxe, E A	179	10 bal.	2 50
Saxe, E A	193	20 bal	5 00
Thurber, Martin	210	25 bal.	6 25
Tibbey, E S	55	20 bal.	5 00
Tibbey, E S	56	3 bal.	75
Thurber, Alf	not issued	50	20 00
West, C J	not issued	150	60 00
Webb, C C	181	40 bal.	10 00

And in accordance with law, and an order of the Board of Trustees, made on the 4th day of May, 1864, so many shares of each parcel of said Stock as may be necessary, will be sold at the salesroom of Jerome Rice & Co., on Wednesday, the 22d day of June, 1864, at the hour of 11 o'clock, A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

EDW. QUACKENBUSH Sec'y.

Office, No. 11, Government House, corner Sansome and Washington Streets. 23-3t

CAUTION.

The Public are hereby cautioned against purchasing the following named Certificates in the Mount Eden Mining Company of Gold Hill, N. T., as the same were sold according to law for non-payment of assessments on the 31st day of May, 1864, and will not be transfered on the books of the Company.

Names.	Certifs.	Shares.
Bonestell, L. H	59	20
Bonestell, L. H	60	10
Barker, S	28	10
Barker, S	29	10
Barker, S	30	5
Brewer, F. A	93	5
McKinnly, Henry	42	10
McKinnly, Henry	43	10

23-2t H. B. CONGDON, Secretary.

Illinois Gold and Silver Mining Company, Smoky Valley District, Lander county, Nevada Territory.

Notice is hereby given, that there are delinquent upon the following described stock, on account of Assessment No. 2, levied May 2d, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amt.
Bradsbaw, T T	23	10	$5 00
Bemis & Edson,	3	20	10 00
Benoist, T S	24	10	5 00
Brooks, Hy S	87	4	2 00
Brush, R G	25	5	2 50
Brush, R G	62	50	25 00
Brush, R G	61	5	2 50
Cary, James	58	1	50
Cromer, Henry	56	5	2 50
Edson, R W	2	5	2 50
Gable, Henry	06	10	5 00
Gable, Henry	97	20	10 00
Gable, Henry	101	15	7 50
Gray, John	33	10	5 00
Grotjan, G W	92	1	50
Irvine, John	36	10	5 00
Irvine, John	37	10	5 00
Irvine, John	38	5	2 50
Irvine, John	98	10	5 00
Irvine, John	09	10	5 00
Irvine, John	100	10	5 00
Lockwood, J	57	4	2 00
Lusk, C D	4	5	2 50
Marshall, Chas	41	100	50 00
Marshall, Chas	42	50	25 00
Marshall, Chas	44	10	5 00
Marshall, F'dk	62	25	12 50
Marshall, F'dk	63	25	12 50
Marshall, F'dk	64	25	12 50
Marshall, F'dk	65	25	12 50
Marshall, F'dk	66	25	12 50
Marshall, F'dk	67	10	5 00
Marshall, F'dk	68	10	5 00
Marshall, F'dk	69	10	5 00
Marshall, F'dk	70	10	5 00
Marshall, F'dk	71	10	5 00
Morton, Benj	72	50	25 00
Morton, Benj	73	20	10 00
Morton, Benj	74	20	10 00
Morton, Benj	75	20	10 00
Morton, Benj	76	10	5 00
Morton, Benj	77	10	5 00
Morton, Benj	78	10	5 00
Morton, Benj	79	5	2 50
Morton, Benj	80	5	2 50
Morton, Benj	81	5	2 50
McGraw, —	60	2	1 00
Nahl, H W A	90	1	50
Odell, J	1	5	2 50
Parsons, S H	45	100	50 00
Parsons, S H	46	50	25 00
Parsons, S H	47	15	7 50
Poole, M M	30	10	5 00
Rogers, Geo P	50	5	2 50
Stevens, Geo	85	4	2 00
Turner, Geo R	86	2	1 00
Van Vleck, D	12	25	12 50
Waters, E D Jr	4	25	12 50
Waters, F C	14	25	12 50
Watreus, C	89	2	1 00
Wyman, H A	5	2	1 00

And in accordance with the laws of the State of California, and an order of the Board of Trustees, made on the 2d day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on SATURDAY, the 18th day of June, 1864, to pay said delinquent assessment thereon, together with the costs of advertising and the expenses of sale.

GEO. C. HARRIMAN, Secretary.

23-2t Office, No. 622 Clay street, San Francisco.

Zenith Gold and Silver Mining Company, Mountain Ranch District, Calaveras county, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 3d day of May, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certifs.	No. Shares.	Amt.
J P Bell,	59	12	$0 00
H T Booraem,	6	25	12 50
H T Booraem,	7	25	12 50
H T Booraem,	8	25	12 50
H T Booraem,	9	12	6 00
H T Booraem,	10	10	5 00
J W Fox,	93	8	4 00
H Holzhauer,	36	25	12 50
H Holzhauer,	39	12	6 00
H Holzhauer,	40	10	5 00
J T Hinds,	146	10	5 00
J T Hinds,	194	15	7 50
W S Lyons,	106	5	2 50
W S Lyons,	186	5	2 50
W S Lyons,	187	7	3 50
C Makin,	191	10	5 00
C Makin,	192	10	5 00
J G Perkins,	147	10	5 00
S Wilzinski,	214	5	2 50
H C Partridge,	124	10	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 3d day of May, 1864, so many shares of each parcel of said Stock as may be necessary, will be sold at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on the 18th day of June, 1864, at the hour of 10 o'clock A. M. of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

M. G. ELMORE, Secretary.

23-2t Office, No. 645 Clay street, San Francisco.

Wallpi Gold and Silver Mining Company, Moss Lode, San Francisco District, Arizona Territory.

There is delinquent upon the following described stock, on account of assessments levied on the 21st day of March, 1864, the several amounts set opposite the names of the respective shareholders as follows:

Names.	Certifs.	Shares.	Amount
C. H. Doriot	17, 18, 19, 20, 21, 22, 23, 24	200	$100 00
E. Y. Mason	3, 4, 5, 6, 7, 8, 38, 39, 40	175	87 50
Wm. P. Pool	34, 36	10	5 00

And in accordance with law, and an order of the Board of Trustees made on the 21st day of April 1864, so many shares of each parcel of said stock as may be necessary will be sold at the salesroom of John Middleton & Son, No. 400 Montgomery street, San Francisco, on Saturday, June 11th, 1864, at 12 o'clock, M., of said day to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

W. AUGUSTUS KNAPP, Sec'y.

19-5t 620 Washington street, Room, 3.

Rubicon Gold & Silver Mining Company No. 4.—Keys District, Owens River, Mono county, California.

Notice is hereby given that in accordance with the Laws of the State of California, and an order duly made by the Board of Trustees of the Rubicon Gold and Silver Mining Company, No. 4, there will be sold at Public Auction, to the highest bidder for cash, in United States Gold Coin, on the 17th day of June, 1864, at 11 o'clock A. M. of that day, at the office of the Company, No. 7 and 8 third floor, No. 302 Montgomery street, San Francisco, so many shares of the Capital Stock of said Company standing in the names of the following persons, or shareholders, as will be necessary for the payment of Assessment No. 5 of ten (10) cents per share, duly levied thereon April 18, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said assessment and accruing charges are previously paid.

Names.	No. Certificates.	No. Shares.	Amt.
Aitkin, Samuel	100	10	$1 00
Adams, Blum & Co,	293	50	5 00
Adams, W J	294	25	2 50
Adams, W J	535	200	20 00
Adams, W J	536, 537—ea 100	200	20 00
Adams, W J	538	137	13 70
Ambisher, B	325	5	50
Brasch, H G	241	13	1 30
Blain, J D	79, 80, 81, 824—ea 25	100	10 00
Baker, E G	173	40	4 00
Brasch, H G	928	50	5 00
Brasch, H G	930	10	1 00
Boyer, W L	284	4	40
Bennet, George	996	25	2 50
Blakely, R F	441	12	1 20
Bain, Robert	534	50	5 00
Beckford, D R	531	50	5 00
Bland, Adam	no cer	150	15 00
Bush, Henry	no cer	150	15 00
Cook, Sarah	38	25	2 50
Cook, Sarah	no cer	125	12 50
Clark, A N	118	5	50
Carr, J T	122	55	5 50
Carr, J T	no cer	75	7 50
Cushman, C S	318, 319—ea 25	50	5 00
Chase, H A	365	5	50
Chester, Henry	470	20	2 00
Chester, Henry	573	85	8 50
Chester, Henry	037	0	00
Chester, Henry	638	39	3 00
Chester, Henry	607	150	15 00
Chester, Henry	no cer	150	15 00
Campbell, Charles	458	10	1 00
Cunningham, Z W	410	50	5 00
Chart, Obol	548	37	3 70
Clark, G G	520, 521—ea 25	50	5 00
Cromwell, J L	639	10	1 00
Cassell, J S	658	50	5 00
Currier, Benjamin	no cer	150	15 00
Carter, W P	no cer	75	7 50
Doran, David	34	25	2 50
Doran, David	181	50	5 00
Doran, David	182, 183—ea 10	20	2 00
Dorau, David	180	20	2 00
Derby, Charles	120	2½	25
Dore, Benjamin	125	25	2 50
Donohor, William	238	5	50
Dunscomb, Edw	520	25	2 50
Dougart, J J	570	7	70
Dond, Philo	592, 593—ea 9	18	1 80
Daud, Philo	no cer	132	13 20
Doscher, Henry	no cer	143	14 30
Diggings, Wesley	no cer	1400	140 00
Diggings, Wesley	726	100	10 00
Davis, W G	399	50	5 00
Davis, W G	485	55	5 50
Davis, W G	598, 602, 603, 604, 605, 606—ea 25	150	15 00
Davis, W G	663, 691—ea 12	24	2 40
Davis, W G	673	13	1 30
Davis, W G	no cer	33	3 30
Evans, John	2	4	40
Etique, J P	337	50	5 00
Etique, J P	no cer	95	9 50
Errickson, E estate of	327, 494, 495—ea 25	75	7 50
Errickson, E estate of	328	11	1 10
Errickson, E estate of	689	12	1 20
Eichel, C	707	4	40
Fogerty, Pat	203	10	1 00
Fellows, D A	514	25	2 50
Fogler, Jos	136, 137, 213—ea 5	15	1 50
Fogler, Jos	211	10	1 00
Fogler, Jos	214	95	9 50
Filichrown, Jas	no cer	300	30 00
Gerrish, P P	542	12	1 20
Gcnunz, A M	no cer	150	15 00
Hall, H B	37	140	14 00
Hall, H B	no cer	10	1 00
Hughes, Rienzi	86, 87—ea 5	10	1 00
Hathaway, Samuel	170	25	2 50
Ham, C W	133	5	50
Ham, C W	no cer	145	14 50
Hun, S A	no cer	150	15 00
Harbinger, Carl	119	2½	25
Holm, H	272	10	1 00
Holm, H	274	20	2 00
Holm, H	275, 276—ea 25	50	5 00
Holm, H	277	50	5 00
Hull, Alonzo	805	4	40
Hall, Alonzo	no cer	146	14 60
Hayden, J H	344	25	2 50
Hyde, William H	no cer	150	15 00
Hendersou, Thomas	587, 588—ea 10	20	2 00
Henderson, Thomas	589	5	50
Harris, J F	640, 700—ea 50	100	10 00
Harris, J F	641, 642, 643—ea 25	75	7 50
Johnson, J B	10, 222, 223, 224, 225—ea 25	125	12 50
Johnson, J B	no cer	1305	130 05
Jeffress, John	233	6	60
Jeffress, John	234	12	1 20
Jeffress, John	no cer	93	9 30
Kirby, William L	no cer	85	8 50
Keunedy, John	230	25	2 50
Kennedy, John	no cer	119	11 90
Kneedlor, John	236	14	1 40
Kneedler, John	237	50	5 00
Kneedler, John	332	5	50
Kneedler, John	no cer	50	5 00
Kennedy, Thomas	316, 390—ea 5	10	1 00
Kennedy, Thomas	no cer	140	14 00
Killian, F	645	7	70
Kennedy, James	no cer	150	15 00
Kimball, M H	no cer	42	4 20
Lane, Levi C	14	100	10 00
Lane, Levi C	15	25	2 50
Lovejoy, A J	61	25	2 50
Lovejoy, A J	252	12	1 20
Louterwasser, C	177	25	2 50
Louterwasser, C	no cer	235	23 50
Lewison, Louis	164, 165, 166—ea 100	300	30 00
Loudon, William	310	5	50
Lee, Charles	472	3	30
Lee, Charles	502	30	3 00
Lee, Charles	549	13	1 30
Lee, Charles	579	20	2 00
Laundry, Lewis	451	12	1 20
Lyon, William F	479	28	2 80
Lyon, Wm F	701	17½	1 75
Luelling, W H	517	240	24 00
Long, E estate of	487	315	31 50
Long, E estate of	488	150	15 00
Lovely, Horace	025	25	2 50
Lord, A J	647	12	1 20
Louterwasser, F P	706	12	1 20
Martin, Wheeler	35	15	1 50
Martin, Wheeler	39, 40—ea 20	40	4 00
Martin, Wheeler	no cer	075	67 50
Mitchell, D H	311	25	2 50
Mitchell, D H	419, 420, 430—ea 12	36	3 00
Mitchell, D H	432	10	1 00
McCort, Robert	30	75	7 50
Mann, Emma F	50	5	50
Myers, Pinkus	77	75	7 50
Mottelier, Fred	356	12	1 20
Mottelier, Fred	358, 359, 360, 361, 362—ea 20	100	10 00
Mottelier, Fred	363	21	2 10
Mahan, H H	157	25	2 50
Mallan, John	204	5	50
Molt, John P	219	50	5 00
Miller, P C	612, 613, 614—ea 25	75	7 50
Miller, P C	no cer	193	19 30
Mayhew, G S	383	5	50
Mayhew, G S	no cer	20	2 00
Merrill, J L	453	25	2 50
Merrill, J L	454	7	70
Martel, John	452	25	2 50
Mubm, Anna	540	75	7 50
Miller, M M	581	150	15 00
Mason, J H	594	12	1 20
Moore, J J	681	25	2 50
McIvor, John	705	10	1 00
Myrick, J W	no cer	150	15 00
Norman, D	411	25	2 50
Noble, G W	567	20	2 00
O'Connell, James	247, 248—ea 50	100	10 00
O'Connell, James	249, 250—ea 25	50	5 00
Oberer, Jos	no cer—150 bl 50		7 60
Porter, Thomas H	102	10	1 00
Porter, Thomas H	no cer	105	10 50
Patterson, John	307	20	2 00
Patterson, John	468	150	15 00
Plummer, J W	386	10	1 00
Perkin, William	445	19	1 90
Picket, E W	659	150	15 00
Pervear, T J	21	53	5 30
Pervear, T J	31	75	7 50
Pervear, T J	243	15	1 50
Pervear, T J	377	3	30
Raymond, Charles	202	25	2 50
Rath, Elias	355	5	50
Richards, I	400	75	7 50
Reas, J E	388	20	2 00
Reas, J E	703	25	2 50
Reas, H M	676	25	2 50
Ramsey, Peler	503	5	50
Robinson, W E	617, 618, 619, 620—ea 25	100	10 00
Rundlett, C F	021	5	50
Riley, C C	564	75	7 50
Reynolds, John	no cer	450	45 00
Santif, N	101	150	15 00
Santif, Mary	102	75	7 50
Santit, Mary	103, 104, 105—ea 25	75	7 50
Santif, Jos	no cer	150	15 00
Still, Robert	463	50	5 00
Still, Robert	715	71	7 10
Stewart, James	187	15	1 50
Schmidt, J C	484	134	13 40
Smith, Wm	193, 194, 195, 196, 197, 198—ea 25	150	15 00
Spalding, C A	309, 354—ea 25	50	5 00
Spalding, C A	352, 354—ea 50	100	10 00
Sutherland, Jacob	320	50	5 00
Sanchez, F	461, 462—ea 12	24	2 40
Sanenez, F	523	13	1 30
Spencer, O W	524	75	7 50
Spencer, O W	615	50	5 00
Spencer, O W	626	18	1 80
Spencer, O W	no cer	1357	135 70
Seiver, W H	525	25	2 50
Swain, R R	607	25	2 50
Studtfelt, Mary	627	7	70
Silver, Frank	658	15	1 50
Simpson, George	665	12	1 20
Smith, Richard	682	25	2 50
Shoemaker, F	725	73	7 30
Tingstrom, A	no cer	138	13 80
Tunock, Aud	252	2	20
Tyler, B F	285	3	30
Terhune, C P	289	10	1 00
Taylor, John	349	10	1 00
Taylor, John R	572	15	1 20
Van Hagen, J P	98	25	2 50
Van Hagen, J P	496, 497, 498, 499, 500, 501—ea 12	72	7 20
Van Hagen, J P	no cer	1140	114 00
Von Gundy, Jos	167, 168—ea 20	40	4 00
Von Gundy, Jos	199	12	1 20
Von Gundy, Jos	no cer	308	39 80
Van Hagen, J B	343	25	2 50
Von Poser, H	522	12	1 20
Van Vleck, D	000	250	25 00
Wainwright, William	75	10	1 00
Wainwright, William	423	55	5 50
Winslow, E G	393	27½	2 75
Wunenberg, N H	108	25	2 50
Wunenberg, N H	110	50	5 00
Wunenberg, N H	112, 133—ea 5	10	1 00
Wunenberg, N H	395	30	3 00
Wickberry, F	713	100	10 00
Wickberry, F	716	175	17 50
Ware, Jos	221	2	20
Ware, Jos	577	6	60
Ware, Jos	662, 663—ea 12	24	2 40
Ware, Jos	710	75	7 50
Ware, Jos	719	25	2 50
Ware, Jos	no cer	129	12 90
Weston, D S	347	2½	25
Wyman, F O	387	20	2 00
Welch, J P	431	10	1 00
Wright, Henry	460	25	2 50
Wood, William O	474	25	2 50
Webster, B F	483	25	2 50
Went, H	558, 560—ea 50	100	10 00
Walmsey, W W	585	5	50
Young, Richard	32	75	7 50
Young, Richard	no cer	25	2 50

By order of the Board of Trustees.

J. P. VAN HAGEN, Secretary.

Office, No. 302 Montgomery street, No. 7 and 8, 3d floor.
San Francisco, May 26, 1864. 22-2t

For Sending East, no more valuable or appropriate publication can be selected than the MINING AND SCIENTIFIC PRESS. For sale by the principal newsagents.

Noonday Copper Gold & Silver Mining Company, Clayton District, Contra Costa County California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 5th day of May, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certifs.	No. Shares.	Amt.
W G Wendall	11	50	$10 00
E C Skinner	12	50	10 00
E C Skinner	13	100	20 00
S J Tennant	24	50	10 00
S J Tennant	25	50	10 00
S J Tennant	26	50	10 00
S J Tennant	27	50	10 00
Orin Swan	32	100	20 00
Eban Jordan	34	20	4 00
Nicholas Larbig	49	50	10 00
E B Mastick	67	200	40 00
P Q Browu	70	50	10 00
John Taylor	Cerl. not issued	200	40 00
John Moul	140	25	5 00
John Moul	141	50	10 00
Nancy Patterson	130	100	20 00
Henry Williamson	124	100	20 00
F A Brewer	121	2	40
Michael Butler	119	25	5 00
Caleb Morgan	118	25	5 00
G W Morgan	104	13	2 60
G W Morgan	103	12	2 40
Nicholas Larbig	50	50	10 00

And in accordance with law, and an order of the Board of Trustees, made on the 5th day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on the 22d day of June, 1864, at the hour of 11 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

L. E. MORGAN, Secretary.

Office, N. E. corner of Bush and Kearny streets, San Francisco.
San Francisco, June 4th, 1864. 23-2t

Salt Spring Valley Mining Company, Salt Spring Valley, Calaveras County, California.

NOTICE.—There is delinquent upon the following described stock on account of assessments levied April 11th, 1864, and assessment levied previous thereto, the several amounts set opposite the name of the respective shareholders, as follows:

Names.	No. Certf.	Shares.	Am't.
Edward Cornilius,	28	25	2 50
R N Dean,	unissued	150	15 00
J W Lawson,	3	2	20
J W Lawson,	31	5	50
J W Lawson,	33	52	5 20
George Lytle,	unissued	150	60 00
Joseph McKenzie,	unissued	100	10 00
J V Martin,	34	24	2 40
Levi Patch,	unissued	18	5 05
J H Shirley,	54	26	2 60
J H Shirley,	55	5	50
J H Shirley,	unissued	20	2 00
Wm H Woodson,	unissued	75	48 25

And in accordance with law, and an order of the Board of Trustees, made on the 19th day of May 1864, so many shares of each parcel of said stock as may be necessary, will be sold in Salt Spring Valley, at J. Cohen's store, on the 11th day of June next, at 2 o'clock, P. M. of said day, to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

VICTOR ROSENBURG, Secretary.

Jenny Lind, May, 24th, 1864. 22-2t

United States Gold and Silver Mining Company.— Mine located in Lander county, Nevada Territory.

NOTICE.—There are delinquent upon the following described stock, on account of Assessment No. 1, levied December 23d, 1863, of $24 per original share, and Assessment No. 2, levied February 6th, 1864, of $40 per original share, the several amounts sol opposite the names of the respective shareholders, as follows:

ASSESSMENT NUMBER ONE.

Names.	No. Feet.	Amount.
E Lashier,	400—stock not issued	$12 00
J S Schuster,	332—stock not issued	9 96
George Baumer,	334 - stock not issued	10 02
Henry Schulz,	334—stock not issued	10 02
D B James,	100—stock not issued	3 00
D Tourtellotta,	200—stock not issued	6 00

ASSESSMENT NUMBER TWO.

Fisher M Clarke,	400—stock not issued	20 00
F Lashier,	400—stock not issued	20 00
R R Fuller.	334—stock not issued	16 70
J S Schuster,	332—stock not issued	16 70
George Baumer,	334—stock not issued	16 70
Henry Schutz,	334—stock not issued	16 70
D B James,	100—stock not issued	5 00
D Tourtellotta,	200—stock not issued	10 00

And in accordance with law, and an order of the Board of Trustees, made on the twentieth day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the auction rooms of John Middleton & Son, No. 400 Montgomery street, San Francisco, on MONDAY, the 20th day of June next, at 12 o'clock M. of said day, to pay the delinquent assessments thereon, together with costs of advertising and expenses of the sale.

T. L. BIBBINS, Secretary.

Office, No. 302 Montgomery street, San Francisco.
San Francisco, May 20th, 1864. 21-tf

Logan Gold and Silver Mining Company, Office, No. 523 Clay street, San Francisco, Cal. April 29th, 1864.

Notice is hereby given that in accordance with an order duly made by the board of Trustees of the Logan Gold and Silver Mining Company, there will be sold at public auction, by Jerome Rice & Co. at their salesroom, No. 327 Montgomery street, San Francisco, on Wednesday, June 8th, 1864, at 12 o'clock, M. to the highest bidder for cash, in Gold Coin, so many shares of the capital stock of the said company, standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay all assessments, now delinquent thereon, together with costs of advertising and all accruing charges, unless previously paid.

Names.	No. Shares.	No. Certif.	Asst's.	Am't due
Evan R. Evans	25	4	2nd	$25 00
Ellen A Spoor	10	15	2nd	10 00
R. McMurray	70	35	2nd bal	51 00
E. S. Roberts	100	36, 121 to 124	2nd	100 00
Watkins Price	46	133	2nd	46 00
Thomas Waters	71	139	2nd	71 00
R. W. Myers	9	78, 97, 108	2nd	9 00
John C. Hay	10	89	2nd	10 00
John Jones	108	110, 113, 114	2nd	108 00
D. Temple	7	111	2nd	7 00

By order of the Board of Trustees.
10-6t

B. W. MUDGE, Sec'y.

Charter Oak Mining Company, Santa Catalina Island, California.

NOTICE.—There is delinquent upon the following described stock, on account of assessments levied on the 27th day of January, 1864, the several amounts set opposite the names of the respective shareholders, as follows, to wit:—

Names.	No. Certif.	No. Shares.	Amt.
C H Taft	not issued	96	$14 40
J D Nichols	25	86 bal	3 27
P Ide	61	91 bal	4 87
I M Merrill	not issued	96	14 40
S C Gardner	not issued	96	14 40
W Diggins	not issued	96 bal	9 40
Hicks & Carson	45, 44, 46	46 bal	10 34
Wm J Woodley	89	60 bal	3 23
Henry Bush	not issued	96	14 40
Henry Bush	first assmt levied Jany 2d		9 60

And in accordance with law, and an order of the Board of Trustees made on the 31st day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold at the office of the Secretary, on Wednesday, the 6th day of July, 1864, at 12 o'clock M. to pay said delinquent assessments theron, together with costs of advertising and expenses of sale.

A. O. WOOD, Secretary.

23-4t 240 Montgomery St., No. 4, 2d. Floor.

North Star Mining Company, Santa Catallaa Island, California.

NOTICE.—There are delinquent, upon the following described Stock, on account of assessments levied, on the 27th day of January, 1864, the several amounts set opposite the names of the respective Shareholders as follows, to wit:

Names.	No. Certif.	No. Shares.	Amt.
C H Taft	not issued	144	$21 60
J D Nichols	29	144 bal.	10 47
P Ide	74	133 bal.	12 03
I M Merrill	not issued	144	21 60
S C Gardner	not issued	144	21 60
W Diggins	not issued	144 bal.	16 69
Hicks & Carson	52, 53, 54, 55	144 bal.	17 55
Wm J. Woodley	101	75 bal.	18 23
Henry Bush	not issued	144 bal.	21 60
Henry Bush	First assessment levied Jan. 2		14 40

And in accordance with law, and an order of the Board of Trustees, made on the 31st day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the office of the Secretary, on Wednesday, the 6th day of July, at 12 o'clock, M., to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

A. O. WOOD, Secretary.

23-4t 240 Montgomery street, No. 4, 2d floor, San Francisco.

Wilson Gold and Silver Mining Company.--Location, Echo District, Humboldt county, Nevada Territory.

NOTICE.—There are delinquent, upon the following described stock, on account of Assessments duly levied by order of the Board of Trustees, on the first day of October, 1863, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amt.
H. G. Blasdell	not issued	300	$300 00
J. W. Flic	not issued	300	300 00
Abner Wade	17, 18, 19, 20, 21, of 20 shs each.	100	100 00
Abner Wade	23, 24, 25, of 10 shs each.	30	30 00
Abner Wade	26, 27, of 5 shs each.	10	10 00
I. N. Thorne	not issued	75	75 00
Robt. J. Fulton	1, 2, 3, 4, 5, of 10 shs each.	50	50 00
Robt. J. Fulton	6, 7, 8, 9, of 25 shs each.	100	100 00
E. C. Palmer	33 bal due on 37½		28 15
C. A. Uhrig	47	37½	37 50
Thomas Mulcahy	32	5	5 00
Arthur Haine	36	12	12 00
John Pullee	101	10	10 00
D. P. Winne	102, 103, of 25 shs each.	50	50 00
Edward A. Morse	110	10	10 00
H. F. Nettleton	61, 62, 63, 64, 65, of 10 shs each.	50	50 00
J. G. Hanson	79, 80, 81, 82, of 50 shs each.	200	200 00
C. M. Batchelder	10	10	10 00
Mrs. E. W. Carey	11	10	10 00
Emma Patten	13	10	10 00
John Brennan	14	10	10 00
Mrs. E. A. Baxter	15	10	10 00
D. H. Kinsey	16	20	20 00
John C. Ing	83	10	10 00
R. G. Carlyle		60	60 00
S. Tyler		120	120 00
B. C. Whitman	75, 76, 77, of 25 shs each.	bal due on 75	40 00

Therefore, in accordance with law, and an order of the Board of Trustees, made on the 2d day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on SATURDAY, July 2d, 1864, at 12 o'clock M., of said day, to pay said delinquent assessments (one dollar per share) thereon, together with costs of advertisement and expenses of the sale.

J. F. MILLER, Secretary.

Office, No. 416 Washington street, San Francisco.

N. B.—Payments may be made at any time before the 29th day of June, to A. OAUCHAT, at the mine, or to the Secretary, at his office in San Francisco. (21-4t) J. F. MILLER, Secretary.

Wall Street Gold and Silver Mining Company, Reese River District, Lander County, N. T.

NOTICE.—There are delinquent, upon the following described Stock, on account of Assesment levied on the 3d day of May, 1864, the several amounts set opposite the names of the respective Shareholders, as follows:

Names.	No. Certif.	No. Shares.	Amt.
R C Wilcox	25	20	$10 00
R C Wilcox	26	20	10 00
R C Wilcox	28	20	10 00
R C Wilcox	29	20	10 00
R C Wilcox	45	5	2 50
R C Wilcox	53	10	6 00
R C Wilcox	54	10	5 00
R C Wilcox	55	20	10 00
R C Wilcox	77	10	5 00
A J Hedrick	56	20	10 00
A J Hedrick	57	20	10 00
A J Hedrick	58	10	6 00
R B Lumer	40	10	5 00
Wm H Glascock	46	10	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 3d day of May, 1864, so many Shares of each parcel of said Stock as may be necessary, will be sold at the office of the company on the 18th day of June 1864, at the hour of 11 o'clock, A. M., of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

WM. H. DUDLEY, Secretary.

23-2t Office, No. 528 Montgomery street, San Francisco.

Two Good Canvassing Agents can find profitable employment by calling at this office. None but active and competent men need apply.

Lord Byron Gold and Silver Mining Company.--Location: Devil's Gate District, Nevada Territory.

NOTICE.—There are delinquent upon the following described stock, on account of Assessment levied on the sixteenth day of April, 1864 the several amounts set opposite the names of the respective shareholders, as follows—

Names.	No. Cert.	No. Shares.	Amt.
Booth, L. A.	79	50	$50 00
Barker, S.	94	1	1 00
Berry, R. W.	2	13	13 00
Berry, R. W.	64	30	30 00
Berry, R. W.	105	10	10 00
Brown, B. T.	8	25	25 00
Brown, B. T.	9	25	25 00
Brown, B. T.	10	25	25 00
Brown, B. T.	107	12	12 00
Brown, B. T.	108	10	10 00
Brown, B. T.	109	10	10 00
Brown, B. T.	110	5	5 00
Brown, B. T.	59	20	20 00
Bones, J. W.	102	13	13 00
Bagge, Theo. F.	35	25	25 00
Boncstell, L. H.	116	5	5 00
Bonestell, L. H.	117	10	10 00
Bonestell, L. H.	118	10	10 00
Bonestell, L. H.	119	10	10 00
Bonestell, L. H.	120	10	10 00
Card, R.	30	25	25 00
Card, R.	40	100	100 00
Dilley, James S.	111	20	20 00
Dyer, Wm. D.	101	15	15 00
Graham, Edward	93	4	4 00
Hall, R.	91	20	20 00
Hall, R.	92	8	8 00
Hudson, Geo. A.	50	50	50 00
Holland, Patrick	67	20	20 00
Holland, Patrick	68	20	20 00
Holland, Patrick	69	10	10 00
Knapp, W. A.	98	15	15 00
Knapp, W. A.	114	10	10 00
Knapp, W. A.	115	10	10 00
Lawton, Irving	106	15	15 00
Lansing, G. J.	70	10	10 00
Mains, J. P.	112	15	15 00
Mains, J. P.	113	10	10 00
Morgan, F.	27	25	25 00
Morgan, F.	57	25	25 00
Morgan, F.	76	10	10 00
Morgan, F.	99	25	25 00
McNamara, Thos.	51	12	12 00
McNamara, Thos.	55	17	17 00
McNamara, G. S.	104	25	25 00
Murphy, Patrick	37	25	25 00
Mikkleson, R.	44	5	5 00
McNutt, C. W.	63	20	20 00
Nason, R. H.	23	10	10 00
Nason, R. H.	24	10	10 00
Nason, R. H.	25	5	5 00
Nason, R. H.	100	25	25 00
Nichols, Mary A.	43	50	50 00
Olney, C. C. (Trustee)	36	25	25 00
Olsen, Peter C.	61	10	10 00
Price, Miss G.	45	5	5 00
Pride, Wm. H.	95	20	20 00
Pride, Wm. H.	96	20	20 00
Pride, Wm. H.	97	10	10 00
Sheehan, Maurice	38	50	50 00
Taylor, L. W.	31	20	20 00
Taylor, L. W.	32	20	20 00
Taylor, L. W.	33	20	20 00
Taylor, L. W.	34	20	20 00
Warren, Miss M. R.	46	5	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 16th day of April, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the auction room of Jno. Middleton & Son, No. 401 Montgomery street, San Francisco, on SATURDAY, the 4th day of June, 1864, at the hour of 12 o'clock, M., of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

H. B. CONGDON, Secretary.

21-3t Office, No. 620 Washington street, Room 3, San Francisco.

The above sale is postponed until Tuesday, June, 14th, 1864, at the same hour and place. By order of the Board of Trustees.

23-2t H. B. CONODON, Sec'y.

Refugio Mining Company, Jesus Maria, Chihuahua, Mexico.

Notice, there are delinquent, upon the following described Stock, on account of Assessment levied on the 18th of November, 1863, and the 9th day of February, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shs.	Amt
	Assessment No. 1.		
Davidson, L.	100	60	$600 00
Martin, A.	101	20	200 00
	Assessment No. 2.		
Campbell, Roht.	3, 93, 94, 169	53	$530 00
Cahill, Ed.	13	10	100 00
Burstell, J. M.	22, 70, 85, 86, 89, 138, 142, 7	92	920 00
Davidson, L.	100, 150	72	720 00
Eastman, C. A.	105	100	1000 00
Martin, A.	101, 161	24	240 00
Malloy, John	83, 91	25	250 00
McKean, A. C.	114, 128	6	60 00
Mowry, Sylvester	16	63	630 00
Smyth, C. F.	40, 87, 150	50	500 00
Webb, C. H.	155	50	500 00

And in accordance with law, and an order of the Board of Trustees made on the 18th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at public auction at the salesroom of Jerome Rice & Co., No. 327 Montgomery Street, on the 21st day of June, 1864, at the hour of 12 o'clock, M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

COLL DEANE, Secretary.

21-4t Office, Odd Fellows Hall, Montgomery st., San Francisco.

Rose Matilda Mining Company, Santa Catallna Island, California.

NOTICE.—There is delinquent upon the following described stock, on account of assessments levied on the 27th day of January, 1864, the several amounts set opposite the names of the respective shareholders, as follows, to wit:

Names.	No. Certf.	No. Shares.	Amt.
C H Tatt	not issued	136	$20 40
J D Nichols	32	106 bal.	9 27
P Ide	75	125 bal.	10 83
I M Merrill	not issued	136	20 40
S C Gardner	not issued	136	20 40
W Diggins	not issued	136 bal.	15 40
Hicks & Carson	55 56 57 58	136 bal.	16 35
Wm J Woodley	105	50 bal.	6 97
Henry Bush	not issued	136	20 40
Henry Bush	First assmt. levied Jan'y 2nd		13 60

And in accordance with law, and an order of the Board of Trustees, made on the 31st day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the office of the Secretary, on Wednesday, the 6th day of July, 1864, at 12, M., to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

A. G. WOOD, Secretary.

23-4t 240 Montgomery street, No, 4, 2d floor.

Royal Eagle and Cliff Gold and Silver Mining Company, Gold Hill Mining District, Storey county, Nevada Territory.—Office No. 493 Washington street, San Francisco.

Notice is hereby given, that, in accordance with an order duly made by the Board of Trustees of the Royal Eagle and Cliff Gold and Silver Mining Company, there will be sold, at Public Auction, by Jerome Rice & Co., at their salesrooms, No. 327 Montgomery street, San Francisco, on WEDNESDAY, June 15, 1864, at 12 o'clock M. to the highest bidder, for cash, in U. S. gold coin, so many shares of the capital stock of the said Company, standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay all assessments now delinquent thereon, together with cost of advertising and all accruing charges, unless previously paid:

Stockholders.	No. Asst.	No. Certificate.	Shares.	Amt.
Cesar Roch	3 and 4	10, 12, 16, 17	30	$45 00
A. Levy	3 and 4	8	5	7 50
L. Levy	3 and 4	23	5	7 50
C. Kornfield	3 and 4	96, 199	33	49 50
F. P. Davan	3 and 4	181, 182, 189, 190, 191	103	154 50
Piere Thiebaut	4	31, 33, 34, 118	30½	31 00
C. Merry	4	39, 146, 148	18	18 00
Dominique Coutin	4	40, 112	12	12 00
Champel Resl	4	41, 94. 95, 138	30	30 00
F. X. Vilm	3 and 4	111, 112, 113	15	22 50
Marie Courier	3 and 4	44	10	15 00
J. Lamolle	4	52	15	15 00
B. Lamolle	4	53	12	12 00
E. Ward	2, 3 and 4	54	5	12 50
J. Mayer	4	55	15	15 00
A. Carre	4	57, 149	13	13 00
Rene Gourdon	3 and 4	62, 63	50	75 00
Alexis Leroux	3 and 4	68	5	7 50
John Delbo	3 and 4	76	25	37 50
A. Reiso	4	80	25	25 00
H. Iiaricourt	3 and 4	84	8	12 00
Cordes Bertraud	3 and 4	85	17	25 50
Wm. Remy	3 and 4	101, 102	25	37 50
H. Bone	3 and 4	—	7	10 50
J. Larisilli	4	119	25	25 00
H. Van Every	3 and 4	139	20	30 00
J. Filliot	2, 3 and 4	—	5	12 50
J. H. Vievler	3 and 4	—	22	33 00
A. Gatticker	3 and 4	—	25	37 50
A. Secretan	3 and 4	—	5	7 50
L. Noel	3 and 4	—	100	150 00
J. Carroll	2, 3 and 4	194	10	15 00
C. Duval	3 and 4	193	25	37 50
J. Anstine	1, 2, 3 and 4	—	25	135 00
Victor Ansous	3 and 4	185	10	15 00
Caroline Petetin	2, 3 and 4	110	10	25 00
Alfred Turrel	3 and 4	140	10	15 00
Marie V. Hourcade	3 and 4	142	5	7 50
Caroline Goux	3 and 4	143, 168	8	12 00
P. J. Minot	3 and 4	144, 167	12	18 00
Napoleon Denis	4	155	10	10 00
Cazeax & Collius	3 and 4	164	5	7 50
C. Aquilion	3 and 4	152	15	22 50
J. P. Cassady	4	162	10	10 00
L. M. Gouby	3 and 4	170	5	7 50
J. Mandot	3 and 4	183	25	37 50
D. Bigarel	4	186	10	10 00
John Dalmas	4	184	25	25 00
F. Roucati	3 and 4	195	15	22 50
M. Barnet	3 and 4	196	10	15 00
Th. Thiele	3 and 4	200	20	30 00
W. R. Maurice	3 and 4	201	15	22 50

By order of the Board of Trustees.

20-5t ARNAVON, Secretary.

San Francisco, May 14th, 1864.

Palmyra Consolidated Gold and Silver Mining Company, Palmyra District, Lyon county, N. T.—Office 625 Clay street, San Francisco, California.

Notice is hereby given, that, in accordance with an order duly made by the Board of Trustees of the above named Company, there will be sold, at Public Auction, at the office of the Company, on MONDAY, the 13th day of June, 1864, at 12 o'clock M., to the highest bidder, for cash, payable in United States coin, so many shares of the capital stock of said Company, standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay the assessment now due thereon, together with cost of advertising and all accruing charges, unless the same be previously paid:

Names.	No. Shs.	Amt.	Names.	No. Shs.	Amt.
O A Briar	500	$125 00	H H Linvill	10	$2 50
Sarah A Broder	10	2 50	N O Mitchell	25	6 25
J W Belden	25	6 25	John C Morrill	25	6 25
Charles Cook	5	1 25	N Nason	119	29 75
I Casper	10	2 50	H J Paine	50	12 50
George Cofran	590	147 5	A C Power	5	1 25
J H Dupaix	5	1 25	George W Swails	10	2 50
Julius Ehrenburg	10	2 50	A Staples	25	6 25
P Feehan	10	2 50	J Silversmith	10	2 50
H B Griffin	5	1 25	E U Sparkett	10	2 50
L D Gavitt	30	7 50	T A Talbert	400	100 00
H M Gilman	50	12 50	A A Van Voorhis	5	1 25
E W Harrison	5	1 25	R J Van Voorhis	6	1 25
Charles Hadsell	100	25 00	M Zejarkowsky	10	2 50
M J Henly	25	6 25	L Whipple	200	50 00
Charles Hirsfeld	5	1 25	S Wood	345	86 25
J Humphreys	295	73 75	W Wadsworth	50	12 50
D Kendrick	135	33 75	B C Whitman	100	25 00
A Knittzke	5	1 25	John T Welcher	500	125 00
James Kennedy	25	6 25	W Langerman	550	137 50

By order of the Board of Trustees.

20-5t C. W. HAYDEN, Secretary.

Ophir of the Colorado No. 1 Gold and Silver Mining Company.—Office No. 620 Washington street, San Francisco.

NOTICE.—There is delinquent upon the following described stock, on account of assessments levied on the 20th day of August, 1863, of thirty (30) cents per share, on each and every share of the capital stock of said Company, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certs.	No. Shares.	Amt.
Charles Hamilton	54	200	$60 00
Charles Hamilton	55	50	15 00
Charles Hamilton	56	20	6 00
Charles Hamilton	57	20	6 00
Charles Hamilton	59	20	6 00
Charles Hamilton	60	20	6 00
Charles Hamilton	61	10	3 00
Charles Hamilton	62	10	3 00
Charles Hamilton	63	10	3 00
Charles Hamilton	64	10	3 00
Charles Hamilton	65	10	3 00
		380	$114 00

And in accordance with law, and an order of the Board of Trustees, made on the 7th inst., so many shares of said stock as may be necessary, will be sold, at Public Auction, at the office of the Company, June 11th, A. D. 1864, at the hour of 12 o'clock M., to pay said delinquent assessments thereon, together with cost of advertising and expenses of sale, unless sooner paid. Location of claim, Colorado District, El Dorado Canon, Territory of Arizona.

RODNEY CLARK, Secretary.

San Francisco, May 7th, 1864. 20-4t

NOTICE.

Is hereby given that from and after June 15th, 1864, the Office and principal place of business of the Emmett Copper Mining Company, will be removed from San Francisco to Copperopolis, Calaveras County. San Francisco, May 14th, 1864.

M. O. ELMORE, Secretary.

20 Office, 645 Clay Street.

E. D. Farrington,

ASSAYER.

No. 430 Montgomery street, San Francisco. N. B. Assays guarranteed. 8v8-1m

Riehn, Hemme & Co.,

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☞ Assays made of Ores, Minerals and Metals. ☜

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REFERENCE with permission to Messrs. F. Parrot & Co., R. B. Swain, Esq., Messrs. Alsop & Co., Messrs. Donohoe, Ralston & Co. 1

G. E. MOORE,

Assayer and Analytical Chemist,

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REFERENCES:—Prof. J. D. Whitney, State Geologist, San Francisco; Alsop & Co., San Francisco; Sather & Church, San Francisco; John Parrott, San Francisco; D. O. Mills, Sacramento. 1tf

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Practical Assays made of Gold, Silver and Lead Ores.

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Quartz Mill and Reduction Works

ARE PREPARED TO WORK GOLD AND SILVER ORES, IN large or small quantities.

Working assays made of small lots, and all kinds of ores crushed at short notice.

Our new and complete Machinery, will enable us to give results fully up to the merits of rock.

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C. C. JONES, Amalgamator.

San Francisco, Oct. 13. 1863. j2tf

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Attend to all kinds of Grinding & Crushing,

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COPPER ORES, MARBLE DUST, FIRE-BRICK DUST, DRUGS,

And Feed of all Kinds,

All of which will be Ground at the Shortest Notice.

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San Francisco, January 1st, 1864. 1-tf

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SILVER AND GOLD ORES, TAILINGS, SULPHURETS, ARENIURETS, ETC., ETC. CUPELLATIONS AND REFINING OF SILVER AND GOLD,

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PRATER'S

PATENT CONCENTRATOR.

THE PROPRIETORS OF THIS NEW CONCENTRATOR, HAVING completed arrangements for its manufacture at the Fulton Foundry, in this city, now offers it to the public, with the fullest confidence that for the purpose for which it is designed

It Has No Equal in Use.

The principle of this machine, which is designed for a Concentrator exclusively, is entirely new. It is designed for separating finely divided quicksilver, amalgam and gold from the sands, and for concentrating and saving the sulphurets, and is to be placed behind all or any other machine in use. It is now in operation at

WHEELER & THAYER'S REDUCTION WORKS,

NORTH BEACH, SAN FRANCISCO,

To whom the Proprietors are permitted to refer, and where all interested in mining are respectfully invited to call and examine the best Concentrator in use.

This machine is now running on waste sands, from which it is taking out an average of 3½ pounds of quicksilver for each ton of sand. Orders or letters of enquiry may be addressed to

HUNGERFORD & PRATER, Proprietors.

San Francisco, April 1st. 1864. 14v8-tf

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INSURANCE COMPANY,

—OF—

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HOISTING FROM DEEP MINES,
GUY ROPES FOR DERRICKS, &c.,
STANDING RIGGING FOR SHIPS,
FERRY ROPES FOR FERRIES,
SASH CORD FOR WINDOW SASHES,
ETC., ETC., ETC., ETC., ETC., ETC

It being Cheaper, Stronger, Lighter and More Durable than any other kind of Rope, and not stretching or shrinking by atmospheric changes.

MINING COMPANIES, by using it for Hoisting Purposes, save 66 per cent. on their outlay for other ropes.

Wire Fencing Strand,

For fencing large parcels of land—permanently, economically and expeditiously. Manufactured in any length desired.

Pamphlets containing weight, strength and price, forwarded free application to the Manufacturers.

WIRE SUSPENSION BRIDGES AND AQUEDUCTS

We are prepared to erect, of any span and capacity, and take pleasure in referring those interested to the many structures of this kind built by us in California, Oregon and British Columbia, of span from 200 to 400 feet. 3-3m

Owen's River Canal Company.

CAPITAL STOCK.....$1,000,000

10,000 Shares.....$100 per Share.

A PORTION OF THIS STOCK IS NOW OFFERED TO THE PUBlic, and recommended as an investment.

Full Paid and Unassessable Stock,

Also Assessable Stock, can be obtained of A. J. DOWNER & CO., the authorized Agents of the Company,
400 Montgomery Street.

President.....R. S. WHIGHAM.
Secretary.....W. FISK HITCHCOCK.
Treasurer.....MONTGOMERY GODLEY.
Superintendent.....WILLIAM FLEMING.
Engineer.....J. E. CLAYTON

TRUSTEES:

R. S. WHIGHAM, formerly of Whigham's Mill,.....Nevada City.
WILLIAM FLEMING.....of San Francisco.
SPIER RIDDEL.....Paying Teller of Parrott & Co's.
ISAAC SWAIN.....of A. J. Downer & Co.
WILLIAM P. PRATT.....of Nash & Pogg

Office of the Company 323 Montgomery Street. j1tf

SQUARZA'S PUNCH.

FIRST PREMIUM

AT THE SACRAMENTO AGRICULTURAL STATE FAIR FOR THE YEAR 1862.

ALSO; FIRST PREMIUM

At the San Francisco Bay District Agricultural Fair, 1862.

MANUFACTORY, WHOLESALE AND RETAIL,

No. 44 Leidsdorff street, opposite the What Cheer House,

j2-tf San Francisco.

Pacific Mail Steamship Company.

THE FOLLOWING STEAMSHIPS WILL BE DESPATCHED FROM SAN FRANCISCO IN THE MONTH OF MAY, 1864.

May 13—GOLDEN AGE.....Wm. F. Lapidge, Commander.
May 23—GOLDEN CITY.....R. H. Pearson, Commander.

From Folsom street Wharf, at nine o'clock A. M., punctually,

FOR PANAMA.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company.

A. B. FORBES, Agent P. M. S. Co.,

Mining Laws and Forms

JUST PUBLISHED, BY H. H. BANCROFT & CO., BEING A compilation of the Statutes of this State relating to Mining Corporations, Assessments, etc., with a digest of decisions of the Supreme Court and Forms of the Incorporation of Companies. Compiled by H. B. Congdon. 12mo., flexible cloth. $1,50. For sale at all the Bookstores. sep14-tf

To Quartz Miners.

ALL PERSONS INTERESTED IN MINING MACHINERY ARE invited to call at Donahue's Foundry and examine my improved Amalgamator. It is unquestionably superior to anything now known for amalgamating Silver and Gold. It works 1000 pounds at a time, and will amalgamate over three tons a day. By the motion of the revolving muller, the pulp is drawn through its centre and passes under it, between the grinding surfaces, to the circumference; from whence it passes again over the muller to the centre, through the holes and between the grinding surface to the circumference as before. Thus a constant circulation of the pulp is kept up, bringing the particles of ore again and again under the muller, and reducing the whole mass to an impalpable powder.

No quicksilver lies between the surfaces to be ground, but at the circumference and centre of the pan where the metal must pass through it as the pulp circulates.

A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S. Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.

sep2f

WHEELER'S

Amalgamating and Separating Pans

IT IS ACKNOWLEDGED BY ALL WHO HAVE EXAMINED THE principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.

The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metal arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the triturating, this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.

Where these Pans have been introduced and operated by the side of others on sands from the same vat, the Wheeler Pans have uniformly gained a large percentage of metals, over its competitors, as well as a still larger percentage in the amount of work performed.

☞ These Pans may be seen in daily operation at the Miners' Foundry, on First street, San Francisco, where all interested are invited to call and examine for themselves.

no16-tf ZENAS WHEELER.

LLOYD'S NEW AMALGAMATOR

Is a Complete Success.

THE RESULTS OF THE WORK DONE BY IT DURING THE past week are:—From 300 pounds of tailings from Volcano, Amador county, worked for Mr. C. B. Culver, was obtained 6 oz. 12 dwts., equal to $40 to the ton of 2,000 pounds. The original ore was worked by the old Mexican arastra. From 600 pounds of tailings, the original ore having been worked by Professor Ryerson's Superheated Steam Machine, was obtained 15¾ ozs., Ryerson's machine having only got 5 ozs. to the ton from the ore.

Result from 50 pounds of ore from Amador county, worked for Mr. H. F. Williams, of Graves & Williams, of the Pacific Fruit Market, in this city, was obtained:

Gold	$73 33
Silver	42
To the Ton	$73 75

The assay being made by Messrs. Molitor & Co.

From 2½ pounds of the same ore, worked for the same party, was obtained:

Gold	$63 30
Silver	04
To the Ton	$63 34

Assay made by Kellogg, Hewston & Co.

The mine from which the above ore was taken has turned out over $10,000 gold and silver, and the average yield as worked upon the spot, has only been $6 to the ton. Varney's Pan has obtained as high as $ 5 to the ton from this ore—the difference in favor of Lloyd's Amalgamator being over Varney's Pan, $53 34 per ton; and over the works at the mill, $62 34 per ton. Result from 15 pounds of ore from Queen City Company's claims, El Dorado Canon, Arizona Territory, worked for Mr. T. Mudge, who obtained: Gold, $4.19, Silver, $1.52, amounting to $2.71-100—equal to $361.33-100 to the ton—the assay being made by Messrs. Molitor & Co. Mr. Deetken, at his metallurgical works in this city, obtained by the Varney Pan $.54 to the ton—the difference in favor of Lloyd being $207.33-100 to the ton.

Result of 68 pounds of ore from the Lady of the Lake Company, Leland Lode, San Francisco District, Arizona Territory, worked for C. W. C. Bowell, was obtained $7.44 in Gold, $0.25 in Silver—$7.69—equal to $2 648-100. Assay made by Messrs. Molitor & Co. 140 pounds of the same ore, worked by Wheeler's Pan, and assayed by Kellogg, Hewston & Co., yielded $7.58-00—equal to $111.60 to the ton. Difference in favor of Lloyd being $104.58-100 to the ton. Lloyd's is undoubtedly the best Amalgamator yet introduced, and is certain to supersede all other Amalgamators now in use. Communications for Mr. Lloyd, either for assaying or other machines, can be addressed to the care of Messrs. Kustell Brothers, Metallurgical Works, Bryant street, between Third and Fourth streets, San Francisco. 20v8-3m

Hepburn & Peterson's

AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION OF THE Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos. 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at Kustel Bros. works, Bryant St. etbween 3d and 4th.

[Illustrated in the Mining and Scientific Press, April 9th, 1864.]

nov8 3m* HEPBURN & PETERSON.

GEO. A. METCALF. H. S. HUTCHINSON

METCALF & HUTCHINSON'S

PHOTOGRAPHIC GALLERY,

650 Washington St. Three doors below Kearney, San Francisco.

HAVING REFITTED THE ABOVE ROOMS THE FIRM ARE now prepared to furnish the public with a superior style of Picture, at a lower price than ever before offered in the city.

CARD PICTURES.

As we have every facility for producing these beautiful picture in all their different varieties, we have reduced the price to

THREE DOLLARS PER DOZEN!

Large sized Photographs $3—Extra copies $1 each.

AMBROTYPES in all Styles and Prices.

OIL PICTURES copied with care and accuracy, in any style desired. Particular attention paid to pictures of children.

Pictures painted in Oil or Water Colors, and retouched in Indian Ink by a competent artist. aug

Ore Bags.

10 000 HAND SEWED OOLD AND SILVER ORE BAGS, 100 lbs each. 15,000 Chicken Gunny Pocket Bags, suitable for Copper Ore, 125 lbs each. For sale in lots, by

REYNOLDS, HOWARD & FORD,

11v8-m 313 and 315 Davis Street, San Francisco

Rubicon Gold & Silver Mining Company No. 1. Location of the mine, Keyes District, Owens River, Mono county California.

Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Rubicon, Gold and Silver Mining Company, No. 1, there will be sold at public auction, to the highest bidder, for cash in U. S. gold Coin, on the 17th day of June, 1864, at 11 o'clock, A. M. of that day, at the office of the Company, No. 7 and 8 third floor No. 302 Montgomery street, San Francisco, so many shares of the Capital Stock of the above Company, standing in the names of the fotlowlag persons or shareholders as will be necessary for the payment of assessment No 5, of ten (10) ccnts per share duly levied thereon, April 18, 1864, by the Board of Trustees, together with the expenses of advertisment and sale, unless said assessment and charges are previously paid.

Names.	No. Certificates.	No. Shares.	Amt.
Samuel Aitkin,	214	15	1 50
Adams, Blum & Co	338	50	5 00
Adams, W J	339	25	2 50
Adams, W J	582	200	20 00
Adams, W J	583	100	10 00
Adams, W J	584	89	8 90
Bruuo, Abisher	375	5	50
Blaia, J D	93, 94, 95, 96—ea 30	120	12 00
Bryant, F	198	2½	25
Baker, E G	109	40	4 00
Brasch, H G	283	38	3 50
Brasch, H G	576	60	5 00
Brasch, H G	578	10	1 00
Boyer, W L	328	4	40
Bennet, Geo	742	25	2 50
Bockman, H A	390	30	3 00
Box, Wm E	478	50	5 00
Blakely, B F	501	14	1 40
Bain, Robert	580	50	5 00
Bartlett, J D	617	5	50
Blattner, J J	671	18	1 80
Bland, Adam	no cer	180	18 00
Cook, Sarah	41	25	2 50
Cook, Sarah	no cer	155	15 50
Clark, A N	137	10	1 00
Clark, A N	138, 140, 141—ea 5	15	1 5
Carr, J T	144	30	3 00
Carr, J T	145	80	6 00
Carr, J T	495	10	1 00
Carr, J T	no cer	80	8 00
Cushman, C S	353, 364—ea 25	50	5 00
Chase, H A	410	5	50
Cbester, Henry	483	56	5 50
Chester, Henry	887	7	70
Chester, Henry	888	33	3 30
Chester, Henry	717	180	18 00
Chester, Henry	no cer	180	18 00
Clark, G G	566, 607—ea 30	60	6 00
Chart, Obed	595	38	3 80
Cromwell, J L	689	10	1 00
Currier, Benj	no cer	180	18 00
Doraa, David	115	100	10 00
Doran, David	207	50	5 00
D'Derky, Charles	143	2½	25
Dove, Beajamin	148	25	2 50
Donohoe, Wm	333	6	60
D'Arcy, G H	512	5	50
Dunscomb, Ed	571	25	2 50
Dougart, J J	913	9	90
Doscher, Heary	no cer	171	17 10
Davis, W G	447	240	24 00
Davis, W G	449	50	5 00
Davis, W G	719	14	1 40
Davis, W G	721	16	1 60
Davis, W G	737	15	1 50
Ettigne, Jean	380	60	6 00
Ettigne, Jean	no cer	114	11 40
Errickson, E—Estate of	337, 544, 545—ea 25	75	7 50
Erricksou, E—Estate of	505, 735—ea 14	28	2 80
Eicbel, C	755	9	90
Fogler, Jos	163, 164, 250—ea 8	18	1 80
Fogler, Jos	249	12	1 20
Fogler, Jos	252	114	11 14
Fogharty, Patrick	241	10	1 00
Fifield, A B	498	14	1 40
Fifield, W	759	15	1 50
Fellows, D A	559	30	3 00
Field Wm R	710	35	3 50
Fillebrown, Jas	no cer	350	35 00
Gerrisb, P P	588	14	1 40
Hall, H B	23	5	50
Hall, H B	39	185	18 50
Hendorson, A H	29	25	2 50
Hughes, Rieazi	475	50	5 00
Hathaway, Sam'l	197	25	2 50
Harbinger, Carl	142	2½	25
Ham, C W	160	5	50
Ham, C W	no cer	175	17 50
Ham, S A	no cer	180	18 00
Holm, Henry	314	10	1 00
Holm, Henry	318, 317—ea 20	40	4 00
Holm, Henry	318, 319—ea 25	50	5 00
Holm, Henry	320	50	5 00
Hines, Herman	332	20	2 00
Haydea, J H	394	30	3 00
Henderson, Thos	430, 834—ea 10	20	2 00
Henderson, Thos	635	5	50
Hyde, Wm H	459	50	5 00
Hyde, Wm H	no cer	130	13 00
Harris, J F	690, 091—ea 30	80	5 00
Harris, J F	747	50	5 00
Johnson, J B	284, 265—ea 30	50	6 00
Johnson, J B	no cer	1570	157 00
Jones, P M	159	10	1 00
Jeffress, John	274	7	70
Jeffress, John	no cer	116	11 50
Josselya, J B	387	20	2 00
Kenaedy, John	272	25	2 50
Kennedy, John	no cer	145	14 50
Kneedler, John	278	14	1 40
Kneedler, John	279	50	5 00
Kneedler, John	382	6	50
Kaedler, John	no cer	85	8 50
Kennedy, Thos	360, 440—ea 6	12	1 20
Kennedy, Thos	no cer	168	16 80
Keaaedy, Jas	no cer	180	18 00
Kimball, M H	no cer	57	5 70
Louterwasser, C	204	25	2 50
Louterwasser, C	no cer	295	29 50
Lewissoa, Lewis	190	160	15 00
Lewisson, Lewis	101, 192—ea 100	200	20 00
Loudeu, Wm	354	5	50
Leo, Chas	484	25	2 50
Lee, Chas	523	75	7 50
Lee, Chas	552	15	1 50
Lee, Chas	598	12	1 20
Lee, Chas	025	20	2 00
Loag, E—Estate	537	315	31 50
Loag E—Estate	538	180	18 00
Laundry, Lewis	525	14	1 40
Lyon, Wm S	751	5	50
Luelling, W H	565	288	28 80
Lovely, Horace	873	30	3 00
Lord, A J	695	14	1 40
Louterwasa, F P	754	14	1 40
Martin, Wheeler	7, 37, 42, 43—ea 30	120	12 00
Martin, Wheeler	no cer	810	8 10
Mitchell, D H	473, 474—ea 14	28	2 80
McCort, Robert	32	90	9 00
Main, E F	70	5	50
Myers, Piakus	91	90	9 00
Motteler, Fred	215	5	50
Motteler, Fred	217	10	1 00
Motteler, Fred	218, 220, 221, 222, 223, 225, } en 20	120	12 00
Motteler, Fred	408	14	1 40
Motteler, Fred	409	12	1 20
Mahan, H H	184	30	3 00
Mallea, John	2½	5	50
Martell, John	269, 270—ea 5	10	1 00
Molt, J P	254, 255, 583, 884—ea 50	200	20 00
Molt, J P	681, 682—ea 90	180	18 00
Molt, J P	585, 885—ea 25	50	5 00
Miller, Chas	303	30	3 00
Miller, P C	380	9	90
Miller, P C	859, 850, 551—ea 25	75	7 50
Miller, P C	no cer	251	25 00
Mayhew, G S	432	30	3 00
Mayhew, G S	520	25	2 50
Mayhew, G S	no cer	70	7 00
Merrell, I L	511	25	2 50
Middleton, J H	550	13	1 30
Mahm, Anna	592	85	8 50
Mahm, Anna	593	5	50
Mason, J H	541	14	1 40
Moore, Jos J	628	25	2 50
McIver, Jno	753	10	1 00
Nahl, W H A	434	55	5 50
Norman, D	465	25	2 50
Noble, G W	512	20	2 00
Owens, R B	480	50	5 00
Porter, Thos H	188	12	1 20
Porter, Thos H	no cer	125	12 50
Patterson, John	413	20	2 00
Patterson, John	519	180	18 00
Piper, Henry	498	30	3 00
Perkins, Wm	502	18	1 80
Perkins, J G	577	50	5 00
Picket, E W	708	180	18 00
Picket, E W	709	80	6 00
Pervear, T J	33	90	0 00
Perveir, T J	286, 426—ea 18	30	3 60
Perveir, T J	425	3	30
Perveir, T J	17	70½	7 05
Ruth, Edias	400	5	50
Reas, J E	437	40	4 00
Reas, J E	752	27½	2 75
Reas, H M	724	35	3 50
Randlett, C F	484	112¾	11 25
Randlett, C F	679	5	50
Ritter, L E	575	30	30
Ramsey, Peter	553	5	50
Roberts, Eli	540	30	30
Robinson, Wm E	084, 685, 600, 887—ea 25	100	10 00
Robinson, Wm E	558	30	30
Santiff, N	119	180	18 00
Santiff, M	120	90	9 00
Santiff, M	121, 122, 123—ea 30	00	9 00
Santiff Jos	no cer	180	18 00
Still, Robert	395	10	1 00
Still, Robert	517	100	10 00
Still, Robert	518	50	5 00
Still, Robert	731	102	10 20
Still, Robert	732	20	2 00
Stewart, James	210	15	1 50
Schmidt, J C	534	127	12 70
Spalding, C A	353	25	2 50
Spalding, C A	403, 404—ea 50	100	10 00
Spalding, C A	405	55	5 50
Sutherland, Jacob	368	62	6 20
Sievers, Jno H	402	5	50
Sanchez, F	515, 516—ea 14	28	2 80
Sauchez, F	569	15	1 60
Swaia, R R	554	25	2 50
Stadtfeld, Mary	575	4	40
Silver, Fraak	707	15	1 50
Simpson, Geo	716	19	1 90
Smith, Rieb.	729	25	2 50
Shoemaker, F	778	88	8 80
Tiugstrom, A	no cer	167	18 70
Tnaock, And	295	2	20
Tyler, B F	329	4	40
Terhuue,	334	10	1 00
Taylor, John	398	12	1 20
Taylor, John	399	9	90
Taylor, Jno R	615	10	1 00
Von Gundy, Jos	193, 194—ea 30	80	6 00
Von Gundy, Jos	235	14	1 40
Von Gundy, Jos	no cer	488	46 60
Von Poser, H	588	14	1 40
Waiawright, Wm	89	10	1 00
Wainwright, Wm	477	70	7 00
Winslow, E G	557	30½	3 85
Wunuenburg, N H	28, 444—ea 10	20	2 00
Wunuenburg, N H	128	50	5 00
Wunnenburg, N H	130, 131, 445—ea 30	90	9 00
Ware, Jos	251	2	20
Ware, Jos	523	7	70
Ware, Jos	714, 715—ea 14	28	2 80
Ware, Jos	758	90	9 00
Ware, Jos	770	25	2 50
Ware Jos	no cer	185	16 50
Wickberry, F	284	30	3 00
Westoa, D S	397	2½	25
Wyman, F C	438	40	4 00
Wood W C	528	30	3 00
Walmsey, W W	651	8	60
Young, Rich.	34	90	9 00
Young, Rich	no cer	35	3 50

By order of the Board of Trustees.

J. P. VAN HAGAN, Secretary.

Office, No. 302 Montgomery street, No. 7 and 8, 3d floor.

San Francisco, May 27, 1864. 22-2t

For Sale—A Useful Invention.—EDITORS PRESS:—I wish to call the attention of mill owners and manufacturers of mining machinery, through your columns, to a devise of my invention for feeding the ores or materials to be crushed, in the common stamp mill, so much in use in this country. It is simple and efficient, doing the work with far more regularity than can be done by hand; it costs but little, and requires no more attention than can be given to it by some one about the mill, without neglecting his other duties. As I have not the means to introduce the above, I would like to enter into arrangements with some one to aid me, and share the profits of the invention. I would add, it has stood a working test, under my supervision, and has likewise received the approbation of Scientific men.

Any communications on the subject, addressed to J. C. H., El Dorado, El Dorado Co., Cal., will receive prompt attention. 21-4t

Rubicon Gold and Silver Mining Company, No. 4. Location of Mine, Keys District, Owens' River, Mono county, California.

Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Rubicon Gold and Silver Mining Company, No. 4, there will be sold at public auction, to the highest bidder, for cash, in United States gold coin, on the 14th day of June, 1864, at 11 o'clock, A. M., of that day, at the office of the Company, No. 7 & 8 third floor, No. 302 Montgomery street, San Francisco, so many shares of the Capital Stock of the Company, standing in the names of the following persons or shareholders, as will be necessary for the payment of Assessment No. 4, of ten (10) cents per share, duly levied thereon February 27th, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said Assessment and accruing charges are previously paid.

Names.	No. Asst.	Certif.	Shares.	Due.
Adam Bland.	4	no cer	150	balance, $9 33
Henry Bush	4	no cer	150	15 00
Sarah Cook	4	38	25	balance, 1 56
Sarah Cook	4	no cer	125	balance, 7 81
W. P. Carter	4	no cer	75	7 50
Philo Bond	4	no cer	122	balance, 12 21
Wesley Diggins	4	no cer	1400	140 00
Wesley Diggins	4	726	100	10 00
W. G. Davis	4	485	55	5 50
W. G. Davis	4	598	25	2 50
W. G. Davis	4	602	25	2 50
W. G. Davis	4	603	25	2 50
W. G. Davis	4	604	25	2 50
W. G. Davis	4	605	25	2 50
W. G. Davis	4	606	25	2 50
W. G. Davis	4	691	12	1 20
W. G. Davis	4	no cer	33	3 30
A. M. Canning	4	no cer	150	balance, 9 37
John Jeffress	4	206	15	balance, 93
John Jeffress	4	232	5	balance, 37
John Jeffress	4	233	6	balance, 37
John Jeffress	4	234	12	balance, 75
John Jeffress	4	no cer	93	balance, 5 81
W. L. Kirby	4	306	25	balance, 1 56
W. L. Kirby	4	no cer	85	balance, 5 31
John Kneedler	4	236	14	balance, 88
John Kneedler	4	237	50	balance, 3 13
John Kneedler	4	332	5	balance, 31
John Kneedler	4	no cer	56	balance, 3 50
M. H. Kimball	4	no cer	42	4 20
Levi C. Lane	4	14	100	balance, 6 25
Levi C. Lane	4	15	25	balance, 1 56
A. J. Lovejoy	4	61	25	balance, 1 55
A. J. Lovejoy	4	252	12	balance, 76
Wheeler Martin	4	35	15	balance, 94
Wheeler Martin	4	39	20	balance, 1 25
Wheeler Martin	4	40	20	balance, 1 25
Wheeler Martin	4	no cer	675	balance, 42 18
D. H. Mitchell	4	419	12	balance, 1 11
D. H. Mitchell	4	420	12	balance, 1 11
D. H. Mitchell	4	432	10	balance, 92
D. H. Mitchell	4	436	12	balance, 1 11
D. R. Mitchell	4	489	25	balance, 2 31
M. Miller	4	581	150	15 00
J. W. Myrick	4	no cer	150	15 00
Jas. O'Connell	4	247	50	balance, 3 12
Jas. O'Connell	4	248	50	balance, 3 12
Jas. O'Connell	4	249	25	balance, 1 56
Jas. O'Connell	4	250	25	balance, 1 56
Thos. H. Porter	4	162	10	balance, 63
Thos. H. Porter	4	no cer	105	balance, 6 56
I. Richards	4	406	75	balance, 3 75
John Reynolds	4	no cer	450	45 00
Wm. Smith	4	193	25	balance, 1 56
Wm. Smith	4	194	25	balance, 1 56
Wm. Smith	4	195	25	balance, 1 56
Wm. Smith	4	196	25	balance, 1 56
Wm. Smith	4	197	25	balance, 1 56
Wm. Smith	4	198	25	balance, 1 56
O. W. Spencer	4	524	75	7 50
O. W. Spencer	4	615	50	5 00
O. W. Spencer	4	626	18	1 80
O. W. Spencer	4	no cer	1357	135 70
F. Shoemaker	4	no cer	73	7 30
Jos. Ware	4	577	6	balance, 31
Jos. Ware	4	662	12	balance, 75
Jos. Ware	4	663	12	balance, 75
Jos. Ware	4	719	25	balance, 1 56
Jos. Ware	4	no cer	129	balance, 8 06

By order of the Board of Trustees.

J. P. VAN HAGAN, Secretary.

Office, No. 302 Montgomery street, No. 7 & 8 3d, floor.

San Francisco, May 12th, 1864. 20-4t

Wm. Mitchel Gold and Silver Mining Company, Silver Moantain, Amador county, California.

NOTICE.—There is delinquent upon the following described stock, on account of Assessments levied on the 16th day of February and the 29th day of March, 1864, the several amounts set opposite the names of the respective shareholders, as follows, to wit:

Names.	No. Certif.	No. Shares	Amt.
John L. Bowen	34	5	$5 00
S. C. Blake	53	15	15 00
S. C. Blake	55	6	5 00
Phillip Brady	61	5	5 00
N. Castle	56	10	10 00
N. Castle	57	5	6 00
W. Hollis	78	10	10 00
Henry Kline	69	10	10 00
Mrs. John Kenney	50	6	2 50
P. McGee	66	6	6 00
W. J. Moss	68	5	5 00
Wm. Walsh	96	25	25 00
Mrs. M. Wise	33	20	20 00

And in accordance with law, and an order of the Board of Trustees, made on the 4th day of May, last, so many shares of each parcel of said stock as may be necessary, will be sold at the office of the Secretary, on Wednesday, the 15th day of June, 1864, at 12 o'clock, M., to pay said delinquent Assessments thereon, together with costs of advertising and expenses of the sale.

A. G. WOOD, Secretary.

20-4t 240 Montgomery street, No. 4, 2d floor.

Tornado Gold and Silver Mining Company, Colorado

District, El Dorado Canon, Territory of Arizona. Office 520 Washington street, San Francisco.

Notice is hereby given, that, in accordance with the laws of the State of California, and in pursuance of an order of the Board of Trustees of the Tornado Gold and Silver Mining Company, duly made May 4th, A. D. 1864, there will be sold, at Auction, at the office of said Company, on June 13th, 1864, at 12 o'clock M. to the highest bidder, for cash, in U. S. coin, so many shares of the capital stock of this Company, standing in the names of the following parties, as may be necessary to pay Assessments No. 1 and 2, of fifty (50) cents each, and levied by the Board of Trustees, December 14th, 1863, and February 17th, 1864, and also balances and other dues, as specified herewith, together with all charges accruing from advertising and sale, unless all such dues are previously paid to the Secretary.

Names.	No. Certs.	No. Shares.	Amt.
H R Covey	6	25	$25 00
H R Covey	7	25	25 00
H R Covey	8	25	25 00
H R Covey	9	25	25 00
H R Covey	10	25	25 00
H R Covey	11	25	25 00
H R Covey	12	25	25 00
H R Covey	13	25	25 00
P J Gifford	not issued	200	200
G Hamilton	Amt due on 288		144 0

20-4t RODNEY CLARK Secretary

Rubicon Gold and Silver Mining Company, No 2. Location of Mine, Keys District, Owens' River, Mono County, California.

Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Rubicon Gold & Silver Mining Company, No. 2, there will be sold, at public auction, to the highest bidder, for cash in United States Gold Coin, on the 17th day of June, 1864, at 11 o'clock, A. M., of that day, at the office of the Company, No. 7 & 8 third floor, No. 302 Montgomery street, San Francisco, so many shares of the capital stock of the Company, standing in the names of the following persons or shareholders, as will be necessary for the payment of assessment No. 5, of ten (10) cents per share, duly levied thereon April 18th, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said assessment and accruing charges are previously paid.

Names.	No. Certificates.	No. Shares.	Amt.
Aitkin, Samuel	198	10	$1 00
Adams, Blum & Co,	302	50	5 00
Adams, W J	303	25	2 50
Adams, W J	537	200	20 00
Adams, W J	540	100	10 00
Adams, W J	539	02	6 20
Athisher, B	339	5	5 00
Brant, A	8	5	5 00
Blain, J D	89, 90, 91, 91—ea 25	100	10 00
Bryant, F	183	2½	25
Baker, E O	184	40	4 00
Brasch, H G	032	50	5 00
Brasch, H G	534	10	1 00
Boyer, W L	294	4	40
Bennet, George	006	25	2 50
Berry, John	398	100	10 00
Berry, John	399	10	1 00
Blakely, R F	455	12	1 20
Bain, Robert	535	50	5 00
Beckford, D R	574	50	5 00
Beckford, D R	575, 576—ea 25	50	5 00
Blattner, J J	627	15	1 50
Bland, Adam	no cer	150	15 00
Bush, Henry	no cer	150	15 00
Cook, Sarah	39	25	2 50
Cook, Sarah	no cer	125	12 50
Clark, A N	120	70	7 00
Clark, A N	127	5	50
Carr, J T	130	25	2 50
Carr, J T	131	50	5 00
Carr, J T	no cer	75	7 50
Cushman, C S	329, 330—ea 25	50	5 00
Chase, H A	375	5	50
Clark, C G	523, 524—ea 25	50	5 00
Chester, Henry	486	20	2 00
Chester, Henry	552, 553, 554, 556—ea 10	40	4 00
Chester, Henry	645	6	60
Chester, Henry	646	38	3 80
Chester, Henry	672	150	15 00
Chester, Henry	no cer	150	15 00
Chart, Obed	550	33	3 80
Cromwell, J L	647	10	1 00
Carrier, Benjamin	no cer	150	15 00
Carter, W P	no cer	75	7 50
Doran, David	34	25	2 50
Doran, David	105	10	1 00
Doran, David	192	50	5 00
Doran, David	193	35	3 50
Doran, David	194	30	3 00
Derky, Charles	123	2½	25
Donohoe, William	300	5	50
Dore, Benjamin	134	25	2 50
Davis, W C	493	55	5 50
Davis, W C	604, 605, 600, 607, 608, 009—ea 25	150	15 00
Davis, W G	674, 692—ea 12	24	2 40
Davis, W C	670	13	1 30
Davis, W G	091	15	1 50
Davis, W G	no cer	28	2 80
Dougart, J J	578	7	70
Doud, Philo	594	10	1 00
Doud, Philo	595	9	90
Doud, Philo	no cer	131	13 10
Doscher, Henry	no cer	143	14 30
Diggings, Wesley	726	100	10 00
Diggings, Wesley	no cer	1400	140 00
Evans, John	2	4	40
Etique, Jean	351	50	5 00
Etique, Jean	no cer	95	9 50
Fichel, C	708	4	40
Errickson's Estate	341, 502, 503—ea 25	75	7 50
Errickson's Estate	460	14	1 40
Errickson's Estate	690	12	1 20
Fogler, Jos	145, 147, 222, 223—ea 5	20	2 00
Fogler, Jos	221	10	1 00
Fogler, Jos	224	95	9 50
Fogerty, Pat	212	10	1 00
Fifield, A B	452	14	1 40
Fellows, D A	516	25	2 50
Fillebrown, Jas	no cer	300	30 00
Cerrisb, P P	544	12	1 20
Genung, A M	no cer	150	15 00
Hall, H B	37	140	14 00
Hathaway, Samuel	181	25	2 50
Harling, Charles	419	25	2 50
Harling, Charles	424	50	5 00
Harbinger, Carl	128	2½	25
Ham, C W	144	5	50
Ham, C W	no cer	145	14 50
Ham, S A	no cer	150	15 00
Holm, H	284	20	2 00
Holm, H	285, 286—ea 25	50	5 00
Holm, H	287	50	5 00
Hines, Herman	298	25	2 50
Horton, D B	274	10	1 00
Hall, Alonzo	no cer	22	2 20
Hayden, J H	355	25	2 50
Henderson, Thomas	390	25	2 50
Henderson, Thomas	391	50	5 00
Hyde, William H	no cer	150	15 00
Harris, J F	648, 649—ea 25	50	5 00
Harris, J F	701, 702—ea 50	100	10 00
Johnson, J B	9, 231, 232, 233, 234—ea 24	125	12 50
Johnson, J B	no cer	1305	130 05
Jones, P M	143	10	1 00
Jeffress, John	242	6	60
Jeffress, John	244	12	1 20
Jeffress, John	no cer	93	9 30
Kennedy, John	240	25	2 50
Kennedy, John	no cer	118	11 80
Kirby, William L	no cer	35	3 50
Kneedler, John	246	12	1 20
Kneedler, John	247	50	5 00
Kneedler, John	346	5	50
Kneedler, John	no cer	58	5 80
Kennedy, Thomas	826, 403—ea 5	10	1 00
Kennedy, Thomas	no cer	140	14 00
Kennedy, James	no cer	150	15 00
Kimball, M H	no cer	42	4 20
Lane, Levi C	14	100	10 00
Lane, Levi G	16	25	2 50
Lovejoy, A J	71	25	2 50
Lovejoy, A J	202	12	1 20
Louterwasser, C	188	25	2 50
Louterwasser, C	no cer	245	23 50
Lawison, Lewis	178, 170—ea 100	200	20 00
Lewison, Lewis	271	70	7 00
Loudon, William	320	5	50
Lee, Charles	482	14	1 40
Lee, Charles	510	70	7 00
Lee, Charles	551	12	1 20
Lee, Charles	585	20	2 00
Laundry, Lewis	481	12	1 20
Lyon, William S	489	29	2 90
Long, E estate of	495	315	37 15
Long, E estate of	496	150	15 00
Lucilling, W H	520	240	24 00
Lovely, Horace	629	25	2 50
Lord, A J	653	12	1 20
Louterwasser, F P	707	12	1 20
Martin, Wheeler	5, 40, 41—ea 25	75	7 50
Martin, Wheeler	35	30	3 00
Martin, Wheeler	no cer	670	07 00
McCort, Robert	30	75	7 50
Motteler, Fred	300	12	1 20
Motteler, Fred	808, 369, 370, 371, 372—ea 20	100	10 00
Motteler, Fred	373	24	2 10
Myers, Pinkus	87	75	7 50
Mahan, H H	168	25	2 50
Mallon, John	213	5	50
Mitchell, D H	322, 426—ea 25	50	5 00
Mitchell, D H	436, 437, 447—ea 12	36	3 60
Mitchell, D H	444	10	1 00
Molt, John P	639, 640—ea 75	150	15 00
Molt, John P	641, 642—ea 50	100	10 00
Molt, John P	643, 644—ea 25	50	5 00
Miller, P C	615, 010, 617—ea 25	75	7 50
Miller, P C	no cer	193	19 30
Mayhew, C S	392	5	50
Mayhew, G S	476	25	2 50
Mayhew, G S	no cer	70	7 00
Merrill, J L	465	25	2 50
Merrill, J L	466	7	70
Middleton, J H	517	12	1 20
Mahm, Anna	547	75	7 50
Miller, M M	587	150	15 00
Mason, J H	597	12	1 20
Moore, J J	583	25	2 50
Myers, Phillip	710	90	0 00
McIver, John	706	10	1 00
Myrick, J W	no cer	150	15 00
Nahl, W H A	394	25	2 50
Normau, D	428	25	2 50
Noble, G W	577	20	2 00
Neal, H R	636, 637—ea 50	100	10 00
O'Connell, James	257, 258—ea 50	100	10 00
O'Connell, James	259, 260—ea 25	50	5 00
Porter, Thomas H	173	10	1 00
Porter, Thomas H	no cer	105	10 50
Patterson, John	377	20	2 00
Patterson, John	475	150	15 00
Plumer, W S	397	10	1 00
Perkin, William	456	19	1 90
Picket, E W	565	150	15 00
Pervear, T J	21	53	5 30
Pervear, T J	31	75	7 50
Pervear, T J	180	10	1 00
Pervear, T J	254	15	1 50
Pervear, T J	285	3	30
Reas, E A	272	10	1 00
Rath, Elias	265	5	50
Reas, J E	401	20	2 00
Reas, J E	705	22½	2 25
Reas, H M	679	20	2 00
Ramsey, Peter	511	5	50
Roberts, Eli	396	20	2 00
Robinson, W E	520, 521, 622, 623—ea 25	100	10 00
Rundlett, C F	625	5	50
Riley, C C	670	50	5 00
Reynolds, John	no cer	450	45 00
Santif, N	111	150	15 00
Santif, M	112	75	7 50
Santil, M	113, 114, 115—ea 25	75	7 50
Santif, Jos	no cer	150	15 00
Still, Robert	472	50	5 00
Still, Robert	736	46	4 60
Stewart, James	195	15	1 50
Smith, Wm	201, 202, 203, 204, 205, 206—ea 25	150	15 00
Strauahan, David	209	25	2 50
Schmidt, J C	492	134	13 40
Spalding, C A	319, 364—ea 25	50	5 00
Spalding, C A	362, 363—ea 50	100	10 00
Sulherland, Jacob	332	62½	6 25
Swain, R R	610	25	2 50
Stadtfelt, Mary	631	7	70
Sanchez, F	469, 471—ea 12	24	2 40
Sanchez, F	520	13	1 30
Spencer, O W	618	50	5 00
Spencer, O W	630	18	1 80
Spencer, O W	no cer	1357	135 70
Silver, Frank	564	15	1 50
Simpson, George	571	12	1 20
Smith, Richard	584	25	2 50
Shoemaker, F	721	4	40
Shoemaker, F	725	65	6 50
Tunock, And	252	2	20
Tyler, B F	295	4	40
Terbume, C P	273	10	1 00
Tingstrom, A	no cer	137	13 70
Taylor, John	359	25	2 50
Taylor, John R	555	10	1 00
Von Cundy, Jos	175, 176—ea 25	50	5 00
Von Cundy, Jos	207	12	1 20
Von Cundy, Jos	no cer	388	35 80
Von Posor, H	525	12	1 20
Wainwright, William	85	10	1 00
Wainwright, William	489	00	9 00
Winslow, E G	462	27½	2 75
Wunenberg, N H	119	50	5 00
Wunenberg, N H	121	25	2 50
Wunenberg, N H	122	15	1 50
Wunenberg, N H	407	10	1 00
Wunenberg, N H	408	30	3 00
Ware, Jos	235	2	20
Ware, Jos	583	6	60
Ware, Jos	668, 669—ea 12	24	2 40
Ware, Jos	711	75	7 50
Ware, Jos	718	25	2 50
Ware, Jos	no cer	129	12 90
Weston, D S	358	2½	25
Wyman, F C	400	20	2 00
Wood, William C	484	25	2 50
Walmsey, W W	590	5	50
Young, Richard	32	75	7 50
Young, Richard	no cer	25	2 50

By order of the Board of Trustees.

J. P. VAN HAOEN, Secretary.

Office, No. 302 Montgomery street, No. 7 and 8, 3d floor.
San Francisco, May 26, 1864. 22-2t

MINING AND SCIENTIFIC PRESS.—This is one of our most valuable exchanges. It comes to us filled with the most valuable articles, original and selected, upon the subject of mining, and we scissorize it to an awful extent. Every person engaged in mining to any extent, should be a subscriber to the PRESS.—*Gold Hill News.*

Rubicon Gold and Silver Mining Company, No. 3. Location of mine, Keys District, Owens' River, Mono county, California.

Notice is hereby given, that in accordance with the laws of California, and an order duly made by the Board of Trustees of the Rubicon Gold and Silver Mining Company, No. 3, there will be sold, at public auction, to the highest bidder, for cash, in United States gold coin, on the 14th day of June, 1864, at 11 o'clock A. M., of that day, at the office of the Company, No. 7 & 8 third floor, No. 302 Montgomery street, San Francisco, so many shares of the Capital Stock of the Company, standing in the names of the following persons, or shareholders, as will be necessary for the payment of assessment No. 4, of ten (10) cents per share, duly levied thereon February 27th, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said assessment and accruing charges are previously paid.

Names.	No. Asst.	Certif.	Shares		Due.
Adam Bland	4	no cer	150	balance,	$9 38
Henry Bush	4	no cer	150		15 00
Sarah Cook	4	39	25	balance,	1 56
Sarah Cook	4	no cer	125	balance,	7 81
Wm. P. Carter	4	no cer	75		7 50
W. G. Davis	4	426	50		5 00
W. G. Davis	4	509	55		5 50
W. G. Davis	4	627	25		2 50
W. G. Davis	4	628	25		2 50
W. G. Davis	4	630	25		2 50
W. G. Davis	4	631	25		2 50
W. G. Davis	4	632	25		2 50
W. G. Davis	4	633	25		2 50
W. G. Davis	4	634	25		2 50
W. G. Davis	4	720	12		1 20
W. G. Davis	4	no cer	33		3 30
Philo Doud	4	no cer	132	balance,	12 21
Wesley Diggins	4	no cer	1400		140 00
Wesley Diggins	4	757	100		10 00
A. M. Genung	4	no cer	150	balance,	9 37
John Jeffress	4	229	15	balance,	93
John Jeffress	4	256	5	balance,	37
John Jeffress	4	257	5	balance,	37
John Jeffress	4	258	12	balance,	75
John Jeffress	4	no cer	93	balance,	5 81
Wm. L. Kirby	4	326	50	balance,	3 13
Wm. L. Kirby	4	327	25	balance,	1 56
Wm. L. Kirby	4	no cer	35	balance,	2 15
John Kneedler	4	260	12	balance,	75
John Kneedler	4	261	50	balance,	3 13
John Kneedler	4	358	5	balance,	31
John Kneedler	4	no cer	68	balance,	3 62
M. H. Kimball	4	no cer	42		4 20
A. J. Lovejoy	4	83	25		1 56
A. J. Lovejoy	4	275	12		75
Levi C. Lane	4	14	100	balance,	6 25
Levi C. Lane	4	15	25	balance,	1 56
Wheeler Martin	4	4	25	balance,	1 56
Wheeler Martin	4	35	30	balance,	1 87
Wheeler Martin	4	40	30	balance,	1 87
Wheeler Martin	4	41	30	balance,	1 87
Wheeler Martin	4	no cer	675	balance,	42 18
D. H. Mitchell	4	331	5	balance,	45
D. H. Mitchell	4	333	25	balance,	2 31
D. H. Mitchell	4	449	12	balance,	1 11
D. H. Mitchell	4	450	12	balance,	1 11
D. H. Mitchell	4	462	10	balance,	93
D. H. Mitchell	4	464	12	balance,	1 11
J. W. Myrick	4	no cer	150		15 00
M. M. Miller	4	611	150		15 00
Jas. O'Connell	4	271	50	balance,	3 12
Jas. O'Connell	4	272	50	balance,	3 12
Jas. O'Connell	4	273	25	balance,	1 56
Jas. O'Connell	4	274	25	balance,	1 56
Thos. H. Porter	4	188	10	balance,	63
Thos. H. Porter	4	no cer	105	balance,	6 56
L. Richards	4	434	75	balance,	3 75
John Reynolds	4	no cer	450		45 00
Wm. Smith	4	218	25	balance,	1 56
Wm. Smith	4	219	25	balance,	1 56
Wm. Smith	4	220	25	balance,	1 56
Wm. Smith	4	221	25	balance,	1 56
Wm. Smith	4	222	25	balance,	1 56
Wm. Smith	4	223	25	balance,	1 56
O. W. Spencer	4	549	75		7 50
O. W. Spencer	4	656	18		1 80
O. W. Spencer	4	no cer	1357		135 70
F. Shoemaker	4	no cer	73		7 30
Jos. Ware	4	607	5	balance,	37
Jos. Ware	4	694	12	balance,	75
Jos. Ware	4	695	12	balance,	95
Jos. Ware	4	749	25	balance,	1 56
Jos. Ware	4	no cer	129	balance,	8 06

By order of the Board of Trustees.

J. P. VAN HAGAN, Secretary.

Office, No. 302 Montgomery street, No. 7 and 8, 3d floor.
San Francisco, May 12th, 1864. 20-4t

Kelsey Gold and Silver Mining Company, El Dorado County, Cal. Office, No. 605 Sacramento street, San Francisco, May 13th, 1864.

Notice is hereby given, that in accordance with the laws of the State of California, the By-laws of the Kelsey G. & S. M. Co., and the order of the Board of Trustees this day duly made and entered, there will be sold, at public auction, on Monday, June 13th, 1864 at, 11 o'clock, A. M., by Messrs. Cobb & Sinton, at their auction rooms, No. 406 Montgomery street, in the city of San Francisco, so much of the Capital Stock of said Company, standing in the names of the following persons as may be necessary to pay all Assessments now due by said parties, together with the expenses of advertising and sale, unless the same shall have been previously paid.

No. of Cert's.	Names.	No. Sh's.	No. Ass't.	Am't.
78, 79, 80, 81, 82	A Fulk	90	5 & 6	$22 50
89, 90, 92 to 105	Noble Lovely	275	5 & 6	68 75
407,138,139,140,141	F Wolfe	285	6	39 75
180	Sophia Steiger	25	5 & 6	6 25
191,193,194, 195, 426, 427	Ole Bergson	175	6	26 25
321	C H Taft	75	6	11 25
219	Joseph Whittlo	10	6	1 50
233, 4, 5, 7, 8, 9, 240,1,2,3,4,5,6,7 9,250,438,439	John L Yates Jr	330	6	49 50
196,7,8,9,200,8,4, 5,8,9,12	A E Shannon	240	6	36 00
803	C H Killey	20	6	8 00
304	B Slocumb	5	6	75
306	Lehman Blum	5	5 & 6	1 25
308	E Mailro	25	6	3 75
309	Gustave Israel	10	5 & 6	2 50
310	E Cleaves	10	5 & 6	2 50
315	F W Bach	5	5 & 6	1 25
317	John Ducker	60	6	9 00
324	C P Williams	100	6	15 00
327, 339, 357, 364	John C Hall	65	6	9 75
328	Alice Moore	5	5 & 6	1 25
348	J Ford	20	5 & 6	5 00
264	Jane James	10	6	1 50
399	Andrew Wilson	15	6	2 25
406	Mrs Susan Sweetzer	10	6	1 50
420, 421	E Worth	50	6	7 50
435	Henry E Brooks	10	6	1 50
311	W Van Housen	5	6	75
164	W A Frey	10	6	1 50
273, 276, 280, 284 285, 286, 287, 288	B F Butler	85	6	12 75
22, 145	R D Scofield	17	5 & 6	4 25
Not issued	C J West	15	4, 5 & 6	5 25
294, 297	A de Castilla	40	4, 5 & 6	14 00

By order of the Board of Trustees.

20 4t S. C. GARDNER, Secretary.

Mechanical.

REYNOLD'S

Patent Cut-Off and Governor,

For Steam Engines.

127 of these Invaluable Machines

ARE NOW IN USE

In California and Nevada Territory, giving a perfectly regular motion and

Saving 20 to 75 per cent of the Fuel.

Steen's Improved Governor

IS THE CHEAPEST, SIMPLEST AND QUICKEST TO ACT AND least liable to get out of order of any Governor in use. It can be seen in operation at the Golden State Iron Works, at the Stone Breaker, foot of Montgomery Street and at the Sugar Refinery, 8th Street, San Francisco.

Steam Engines, Boilers, Pipes,

Hydraulic Presses, Shafting, Pulleys, Etc., Etc., bought and sold the best market rates.

Anti-Incrustation Powder,

A sure remedy for Scale in Steam Boilers, without injury to the Iron. In use for the past EIGHT years.

☞ MACHINERY MADE AND REPAIRED. ☜

—REFER TO—

Sugar Refinery, San Francisco,
Cotticli & Co., San Jose,
L. A. Booth, Esq., Virginia City,
And 2,000 others in the United States.

E. T. STEEN.

1-tf Nos. 37 & 39 Fremont Street and 42 & 44 Beal Street.

MINERS' FOUNDRY

—AND—

MACHINE WORKS,

First street, between Howard and Folsom streets,

SAN FRANCISCO.

EVERY DESCRIPTION OF IRON AND BRASS MACHINERY, the **Best** and **Most Economical**, manufactured in the State of California, will be furnished with dispatch at the Miners' Foundry and Machine Works, as:

Steam Engines and Boilers, Flour, Saw and Quartz mill machinery Mining Pumps, Amalgamators, Retorts, Etc., Etc., Etc.

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Mining AND SCIENTIFIC Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

VOLUME VIII. SAN FRANCISCO, SATURDAY, JUNE 11, 1864. NUMBER 24.

OLD COUNTRIES AND NEW.

People who live in old countries, like those of Europe, for instance, realize but very little how much they are indebted for what they enjoy to the civilization of the many centuries that have passed before them. The clearance of forests, the drainage of lands, the construction of roads, bridges and public edifices, the establishment of colleges, academies and other institutions of learning and literature, are found all ready for their use and enjoyment when the people of the present generation, in such countries, come upon the stage of action. All these things the hardy pioneers in a new country are obliged to build up in a single generation. The weight of such a burthen can never be realized until it is actually felt. Take an entire community, old and young, that have been brought up side by side, and their predecessors before them for centuries, intermarrying with one another, and living mainly upon what their parents have left them—take such a community, and transplant it bodily into a new and distant land, and the result would most likely be a perfect failure. New countries are not thus peopled; they could not be thus established. It is one of the sequences of civilization that all old communities should send out pioneers to occupy new and distant lands, and thus gradually reclaim them from nature's wastes and savage rule, and add them, one after another, to the great brotherhood of civilized nations; but those who thus go out to prepare the way are usually the most hardy, active and intelligent of the parent community. Men of inferior stamp prefer the luxuries and leisure of home. They would be drones in a new community—merely drags upon its progress.

In the early ages of civilization these migrations were comparatively rare and slow of results. The introduction of steam and machinery has of late years given a wonderful impetus to such movements, and we can now look forward to an early day as the period when every approachable shore line on the globe will be planted with colonies of hardy pioneers, which will form the nuclei of peoples that will, ere long, knock for admission into the growing family of nations.

It is marvellous how rapidly a modern colony, assisted by the mechanical and scientific aids, which are now the never failing accompaniments of such movements, will gather around itself all that can minister, not only to its absolute needs, but to its comforts and luxuries as well. When a stranger arrives for the first time in San Francisco, he is amused at the maturity which the city presents, and can scarcely realize, as he looks around at our well paved streets, threaded by a net-work of railroads, our numerous churches, school houses, theaters, splendid hotels and imposing charitable institutions, that he is walking the streets of a magnificent city of 135,000 inhabitants scarce fifteen years old! Let him step on board of one of our splendid river steamers, wend his way mountain-ward, and make a hurried trip through the mines, and he is still more amazed at the immense amount of labor which has there also been accomplished in so short an interval. Californians may well be proud of the indomitable energy and activity which they have displayed, and each may rejoice that his lot has been cast among a people by whom so much has been attempted and so much accomplished, and that, too, at such a vast remove from the centers of civilization. The like was never seen before.

For a full century the thirteen provinces which formed the basis of our present Union were struggling along in the pathway of nationality, under the old-time regime of slow coaches, hand labor, and the dull routine in which our fathers for generations before had trod. The short-sighted policy of the mother country, in cramping the native industry of the people, roused their Saxon blood, and the Anglo-American was suddenly awakened into a new life. His first effort was to assert and achieve nationality. The industry and energy of the people then took a more practical turn, and, aided by the genius of a Franklin, a Fulton, a Whitney, and a host of lesser, though still brilliant lights, which immediately sprang up, the American people have since taken the lead in everything which relates to progress, whether religious, political, or industrial. For many years their surplus population found an outlet in the "boundless west," until, by the fortuitous circumstance of the discovery of gold, their attention was attracted to California, where the first distant American colony was established. The energy of our people has fully maintained its pre-eminence, as we have already shown, in the work which they have here accomplished.

Human intelligence and human hands have never done more, in the same space of time, to develop the resources of any country, or been more ready to seize upon and turn to profitable account the boundless latent wealth of magnificent territory! It is difficult to conceive of any material obstacle to our onward progress, or the unlimited expansion of the Anglo-American race on the Pacific coast of the American continent. Californians are the true modern type of a pioneer people. If, in our vigorous growth, there should be observed an absence of some of the amenities that belong to the more polished phases of life in older countries, their want is more than compensated by the unusual stimulus of active, useful exertion, which abounds, and the true open-hearted generosity which our citizens manifest on all occasions, where charity, philanthropy or patriotism makes a call upon their efforts or their purses.

El Dorado Canon.—It is stated that there is a sufficient amount of rich rock now lying in El Dorado Cañon, on the Colorado, to employ a dozen or more 40-stamp mills for six months. Parties from that region give it as their full conviction that mills are now the first and greatest necessity for carrying on a successful and paying work in El Dorado Cañon. As quite a number of fat owners from there are now in this city, it is to be hoped that on their return some arrangements will be made by which this great want will be supplied.

Communications.

Written for the Mining and Scientific Press.]

The Patio Amalgamation.

BY J. H. CHURCHILL, A. M.

[CONTINUED FROM PAGE 361.]

From this inefficiency of the crude salt earth originated the use of processes of leaching and evaporation to purify the salt. Crystallization from salt-springs supplied it purer in the district of Salinas. The purest salt is that obtained by evaporation of the sea water; but it is kept from general use by the distance and cost of freight. The latter will contain within three per cent. pure salt. On the contrary, the best of the other sorts, even when purified by the methods mentioned, will afford only little more than nine-tenths of their weight; but they differ from the original salt earth, in being free from lime and magnesia in a form which may absorb the hydrochloric acid as fast as liberated by the decomposition with the magistral. The following analysis, selected as showing the mean composition of Mexican purified salt, exhibits these earths, in combination already either with that acid, or the stronger one, sulphuric acid:

Chloride of sodium	90,372
Chloride of magnesium	2,570
Chloride of calcium	1,410
Sulphate of potash	2,450
Sulphate of soda	1,105
Sulphate of lime	2,090
	99,997

The proportions, which I shall presently mention, for the use of salt, are therefore made in reference to a purified material of about this standard.

The pyrites from which the magistral is obtained by roasting may be considered as nearly free from any similar sources of counter re-action with the salt. The quantity of lime, alumina and magnesia likely to be present may be gathered from the following table of the composition of the averages of the copper ores smelted at Swansea:

Silica	38.5
Alumina	2.4
Lime	.3
Magnesia	.4
Copper	13.5
Iron	19.7
Other metals	.9
Sulphur	23.1
Water, oxygen, carbonic acid	1.2
	100.0*

At Copiapo, in Chili, the sulphuret of copper and iron will contain 12 to 13 per cent. of materials other than copper, iron, sulphur and silica. All the carbonates of the earths, magnesium or other limestones will, of course, be converted into sulphates in the roasting, and will neutralize an equivalent proportion of salt only in proportion to the soluble alum, or sulphate of magnesia (epsom salts) resulting from the manufacture.

The composition of the gangue of the ore is of still more importance in this respect. Ores from the district of La Luz sometimes contain nearly ten per cent. of carbonates of lime and magnesia, and as they do not contain sulphurets of a character to require roasting—which is scarcely attempted about Guanaxuato—these enter the torta in this condition. The Santa Brigida vein, in the Real del Monte district, yields even more; alumina, magnesia and lime amount in this ore to above 11 per cent. Possibly all of this is not so readily attacked as in the form of carbonates; but in the district of Reyes, five per cent. of these carbonates is again common. I lay more stress on this point here because, in addition to

being of importance in the Patio process, as accounting for irregularities in the results and of the quantities of the materials to be mixed, it also seems to me to afford the clue to the inefficiency of certain powerful chemicals used in limited quantities by numerous pan amalgamators in this State.

In considering the proportions in which the materials are to be mixed, it is well to recall the nature of the silver present (see our number for May 14th, p. 323). The metallic silver and the native silver amalgam are mostly removed by the process of amalgamating, which is carried on in the arrastra when a little free gold is also known to be present. For this purpose the refuse (cabetilla) from a torta, and sometimes additional silver amalgam, is put into the arrastra, for the purpose of collecting the gold into as small a quantity of amalgam as possible, and if the quantity of native silver be not very large, it may be wholly withdrawn by this means. Some action also goes on here directly, and without any other agency than the constant attrition, between the mercury and the sulphides of silver, with the production of sulphuret of mercury and amalgam. We have, therefore, somewhat less silver, even in a mineralized form, than was originally contained in the, ores after the grinding in the arrastra, whenever amalgam or mercury is added during the operation.

Taking, then, the average content of Mexican silver ores submitted to this process as 5 to 10 lbs. per ton—*i. e.*, one to two parts in 400—the magistral will have been made from ores of different contents in sulphur. As the standard, ores capable of yielding 30-50 per cent. of sulphates of iron and copper represent about the mean in the haciendas near Guanaxuato. The practice is to add about an arroba for each monton of ore. This will be in the proportion of about two to three pounds in four hundred.

The salt being true salt to the extent of nine-tenths, is added to the amount of two, three, five, or even eight per cent., in accordance rather with the necessities of the times than of the torta, as it is known that the larger proportion produces quicker work. A result sometimes attributed to its solvent action on the chloride of silver, but perhaps more truly due to increased action from its presence in larger quantities.

These materials have been added to—the proportions in which they are generally used, have been altered—the magistral has been substituted by other salts, chiefly for the following reasons: 1st. To economize the mercury, as was aimed at in the use of iron, in the metallic form, as long ago as nearly three centuries since, in Peru—an alteration which still survives in the barrel-amalgamation, known in this State as the Freiberg process. 2d. Salt, in increased quantity, imparts a very material result, which must be noticed more fully as we proceed. 3d. The addition of more than the usual quantity of magistral is employed with ores containing blende and galena, and the effect it produces in these cases has a very important bearing on the theory of this process in general. A practical chemist and an enterprising observer, Dr. Bowring, has written much to show the advantage of using sub-chloride of copper instead of magistral with the salt. It is suggested that this prevents the combination of chlorine and mercury; but the considerations drawn from actual working, which are the basis of the other modifications just mentioned, point very definitely to the conclusion that the magistral and salt perform other functions than that of furnishing chloride of copper to the torta; and an experiment of Dr. Bowring's own shows the advantage of some sub-chloride of mercury being present. Where additional magistral is necessary—with, as a result, the production of a larger quantity of hydrochloric acid—there we have present sulphurets, either in their native condition or remaining, as we have already remarked, after even the imperfect roasting sometimes employed with these argentiferous blendes; and these sulphurets doubtless exercise a negative influence and preserve the mercury, as well as the silver, from the continued or excessive action of this acid. But we have none the less reason to commend the practice alluded to, based, as it is, upon the effect of the additional acid liberated from the salt, which, when the magistral is employed in sufficient quantities, is active in destroying the combination of these sulphurets of zinc with the silver contained in them. I have spoken of the product of the action of the magistral on the salt, as nascent hydrochloric acid, it may practically be so regarded, for the persulphate of iron and the protosulphate of copper contained in it, each contain acid enough to liberate more hydrochloric acid than they can combine with, without again parting with it to mercury when this is introduced, or than they can combine with at all, when the mercury is present at the time. Experiments of my own, made directly to the above point, confirm the reaction. The observations of M. L. Malhè on the action of sulphuret of iron (artificial) on the salts of mercury and some other metals, will both illustrate the effect of the sulphurets present which I have alluded to, and may be worth remembering, in case of poisoning. It was in the latter cause that this chemist originated his investigations.

One of his experiments, if it were not dangerous, might be as convincing as it is easy of execution. It is the following: Take on the tongue just sufficient corrosive sublimate to produce the abominable metallic taste which distinguishes it; then rinse the mouth with water, into which some of the sulphuret of iron, precipitated by an alkaline sulphide, has been stirred, and the taste of mercury is at once destroyed. Mutual decomposition has resulted in the removal of the hydrochloric acid from the mercury, which rendered it soluble and capable of being tasted. The whole of it is substituted by the sulphur, and therefore, here the mercury is deprived of the lesser proportion of hydro-chloric acid with which it is combined in inefficient practice of the Patio Amalgamation. This action of sulphurets is not confined to these two combinations, and in some cases arsenical sulpburet of iron is one of the most effective. This observation has been confirmed by other chemists of authority.† It seems, therefore, to be well deserving of consideration. If the addition of magistral be continued beyond the point of destroying the blende or galena, we may have chlorine enough present to produce more than sufficient sub-chloride of mercury to keep the torta in good working order. It is this salt, the calomel of our druggists which forms the white powder, which may be squeezed from the mercury in the testing bowl when the process is going on well.‡ On the other hand, when this action is carried too far, we have the condition known as calor—destruction of mercury by chlorine. It is well worthy of remark that the action of artificial heat counteracts this condition of the torta, and we have the same re-action between the chlorine in combination with mercury and the sulphurets of silver as ordinarily with the chlorides of copper, which result in the formation of chloride of silver§. In this connection all the received additions of chemicals to the pan processes are dependent on the production of chlorine; and we may, therefore, see in this effect of heat in the Patio process a measure of the value of the artificial heat, which has been so much used with the former, but which some careful workers are now ready to dispense with. Again, the calor de frios is counteracted by the light and warmth of the sun and exposure to the air. The condition of the mercury in this case is said by Napier to be that of an oxide (suboxide). When this is the case, the sun acts on this by separating it into the combination of equal equivalents of oxygen and mercury, with the restoration of half the mercury to the metallic form—ready for amalgamation or—upon the addition of more magistral, the necessity for which is indicated by a yellow tinge, probably due to the oxide last mentioned—to be converted into subchloride, the presence of which, in limited quantities, characterizes, as we have seen, a successful mixture.

*Jas. Napier, Swansea; Phil. Mag., vol. IV.
†Malaguti and Durocher, Paris; Jas. Napier, Jr., F.C.S., Guanaxuato.
‡Dr. Bowring (from direct experiments.)
§Jas. Napier, Jr., Guanaxuato.

(To be continued.)

Brown's Valley.—An occasional correspondent of the Marysville *Appeal*, writes under date of May 30th, as follows: "There is a rumor afloat here that mining in this Valley, as well as in the other mining districts, will soon be revolutionized by a new theory laid down by one of our leading miners here. It seems even that our Pennsylvanin and Jefferson companies have already adopted this theory, and are now working their claims on an entirely new plan. If this theory holds good, and there is but very little doubt that it will, mining in future will not be a great deal more uncertain and risky than all other pursuits pertaining to soil, as raising grain, fruit, etc. According to this new theory the mines of Brown's Valley, for instance, would pay rich, and could not be worked out for hundreds of years to come. The newly made discoveries in the Jefferson and Pennsylvania claims seem to warrant the assertion that their cleanings up will not only soon restore confidence entirely, but they will also show at once and forever the real and intrinsic value of our mines."

The above correspondent complains that the parties who have proposed and adopted this "new theory," do not make their discoveries public, for the benefit of others. If it is simply a theory with regard to the formation or working of veins, the discoverers certainly cannot make themselves any poorer by doing so. Our correspondent, who signs himself "A Miner," in another column, gives quite a full description of the present underground condition of the mines alluded to above.

[Written for the Mining and Scientific Press.]

From Our "Sage Brush" Miner.

Austin, May 29th, 1864.

Editors Press:—Since I wrote you last but little of an exciting character has transpired in Silver Land. The preparation for a glorious future is steadily going on and all are sanguine in the belief that whatever they invest will ere long bring them an hundred fold. Though mining has been somewhat retarded for the past few weeks by reason of stormy weather, now that the sky is again cloudless and serene, everybody seems inspired with new life and brighter hopes. Miners swarm among the hills and countless windlasses are turning up the cubic contents of 5 by 6 in order to disclose to those who merit it an ample reward for all their toil.

The husbandmen too are delighted, though at the eleventh hour, to see their pastures and meadow land again resume the rich carpet of green which promises for them an abundance. Having had here, as was the case generally in California, an open and pleasant winter, it is now, late as it is, cheering to receive refreshing showers of rain. Even the desert plains seem to rejoice thereat, for the very sage brush is trying to shake off its rusty, dusty appearance and to don a new dress.

Notwithstanding the scarcity of capital here at present, the town of Austin is improving rapidly. Everybody who has a few dollars to spare is laying it out in building or in improvements of some kind. This should prove to our neighbors at a distance that we are grasping after no imaginary object, but that the end, real, lasting and substantial, is in view. Austin, situated as she is upon the main overland road, with rich mining districts both north and south, cannot fail to remain the head quarters or common center of the surrounding country. Amador on the north, Big Creek or Cañon City, Bunker Hill and Kingston on the south, also Union and Ione City in a westerly direction, are all but as swarms gone out from the old hive and still the business-like appearance at home is not diminished, but on the contrary the old hive, has received additions in the shape of extensions No. 1 and No. 2 to town plat original. Already teams from Salt Lake have made their appearance in the street, with bacon, butter, eggs, etc., which assures us that we may expect from that quarter a lively trade, and together with the emigration that may stop here, we cannot but describe for Austin a still larger boundary than she at present claims. In all fairness we cannot but predict a promising future for our sister towns; for with us their common destiny is onward.

Of the various claims here, I need not undertake a description, for as the miners are at work with a purpose, and free good will, they will soon speak for themselves. I am glad that the mania for incorporating has in some degree subsided, and that labor or actual development of the mines is substituted in place of finely lithographed certificates of stock. Capitalists are not going to make large investments in claims on the recommendation merely of the paper on which they are represented, and I am glad to say we have already some claims here that will pass inspection.

Freight teams are arriving daily from California, that keep our market well supplied, and taking into consideration the price of hauling so far, living here is very reasonable. Some restaurants are even furnishing meals, (and not indifferent ones either,) for 50 cents. Milk flows into our town freely, I say *milk* not *water*, for the reasonable price of 50 cents. per gallon. Our meat markets are supplied with beef, mutton and pork, and ere long we may expect to see fresh garden vegetables, for an abundance are growing and looking finely. Taking it all in all, Reese River is not so bad a country after all. Many a peaceful home will have its altar erected here, and the desert be made to blossom like the the rose; at least such is the opinion of Sage Brush.

The Sandwich Islands Aiding the Sanitary Fund.—Some 500 barrels of molasses, contributed by the various plantations in the Sandwich Islands, have already been shipped from New York. Another shipment will soon be made.

Mining Accident.—A workman, named Dennis Hickey, fell a distance of 100 feet, from an underground scaffolding, down a shaft, in the Gould & Curry mine, on the 1st inst. He struck upon a bunch of picks, and was instantly killed.

[Written for the Mining and Scientific Press.]

The Mines of Amador County.

Messrs. Editors :—Having examined the chief points of interest along the copper belt of Amador county, I next turned my attention to the auriferous veins a dozen miles west. This class of veins, more than any others, require a rigid examination for a proper appreciation of their true worth. As in silver mining, the local or easily visible richness of the rock is not a sure criterion of the value of the vein. The richest rock that I saw on my trip came from the least valuable lode for profitable working. Without, therefore, expressing a positive or negative opinion concerning the claims encountered on my route, I shall proceed to give a few facts acquired in a not very prolonged inspection of the most accessible mines.

At Jackson several shafts and cuts are being sunk upon veins of auriferous quartz. The only one I particularly examined is situated about a half mile south of the town and is owned by the proprietors of the Eureka and Badger mines, at Sutter Creek. The vein consists of several seams and bunches of friable quartz in a rotten bed rock; that to the west being composed of clay slate and that to the east evidently trap rock. From an excavation about ten feet in depth and one hundred in length, the quartz had been taken out for a width varying from four to ten feet. The day previous to my visit, a piece of quartz containing one hundred dollars in gold had been found quite near the surface. The general run of gangue excavated yields about five dollars per ton although selected rock has gone as high as thirteen dollars. The rock is hauled to a little four-stamp mill driven by a water wheel, near town, where it is crushed at a cost of three dollars per ton. The proprietors of this as well as other quartz mills in this section allege that the expense of crushing does not exceed one and a half dollars per ton. This mill if effective in saving fine gold, quite upsets my ideas of the necessary requirements; the wash of the battery passes into a bowl connected by a central hollow cylinder with a saucer shaped disk rapidly whirling in an iron pan, and after passing beneath the convex muller flows through a short string of sluices.

Further south a company of negroes are prospecting the vein I have just noticed.

Two miles north of Jackson is the Oneida Quartz Mill of twenty stamps, which dates back its existence to the year 1852, although in possession of the present three proprietors but three years. The mill is crushing rock from two claims. The one close by is a vein of hard white quartz from two to six feet wide, and enclosed between walls of black slate, with a shaft down some three hundred feet. The second claim, three quarters of a mile south, yields a peculiar slum or orange colored, flinty quartz from a shaft eighty feet in depth.

Next, proceeding to Sutter Creek, a town supported almost wholly by quartz operations and subject to none of those fluctuations of business or population discernable in the desolate ruins of many other mountain towns, I gave special attention to its mines, which have been more steadily worked than any other in California. Nearly a mile back on each side of the creek, which is a considerable sized stream flowing westward, a high ridge curves in general contour with its course. From each of these ridges drops a prominent north and south spur on or near which summit is located a line or range of auriferous quartz. The veins occur near the junction of a greenstone with the eastern side of a clay slate formation. The slate comprises a belt about a thousand feet in width, flanked on either side by the bluish green, and sometimes distinctly porphyritic rock, which is plainly marked in its course by its associated red earth caused by the decomposition, into red oxides, of the iron sulphurets abundantly entering into its structure. It is this rock more than any other in this geological system of our State that possesses an auriferous character and gives a red color to the best placer deposits.

On the east side of a ravine through which the Jackson road descends to the town of Sutter Creek, and a quarter of a mile back from the creek, are the Badger and Eureka mines, formerly separate claims, but now jointly owned and worked by Messrs. Heywood and Chamberlin. These claims were located in the year 1852. Inside the building belonging to the old Eureka mine there are two shafts, 600 and 800 feet respectively in depth, to each of which there is attached a twenty-horse power engine for hoisting quartz and water, the latter, however, not in any great quantity. In the Badger building, three hundred feet south and higher up the hill, is the third shaft seven hundred and fifty feet in depth and connected with an engine of equal power with the others. All three of these shafts are constantly used in working the mine night and day. At times the quartz taken from the two mines gives activity to three mills or seventy stamps in all. During my visit but one mill of forty stamps was thus engaged. About one hundred men are employed in the mines and mills. The quartz pays from fifteen to thirty dollars per ton.

Having expressed a desire to descend into the deepest mining shaft in California, I was proffered the opportunity by the foreman of the mines, Mr. Morgan Morgans, whose eight years experience in these claims gives him a thorough knowledge of every portion of the underground work. Proceeding to the southern shaft of the Eureka mine, I took a candle in hand, stepped into the large iron bucket, and squatting therein, became oblivious to any other than a highly elevated view of the outer world. My guide balanced himself on the edge of the bucket and grasping the chain below the rope gave orders for an easy descent. The engine started, the reel set free coil after coil of rope, and we passed down quite easily with scarcely enough danger depicted in the attachments of our iron chariot to give the excitement and consciousness of braving danger, such as can be felt in descending the slimy ladders and rickety shafts of some mines. The shaft, inclining with the ledge at an angle of eighty degrees, is about seven by five feet in the clear, heavily timbered and contains, like most shafts of the same capacity, two sets of tracks or slides for the buckets and a side ladder. At the depth of five hundred feet, a pull on a wire gave a tinkling signal for stoping the engine, and we landed at the end of a drift running northward. Passing through this, over and beyond the north shaft, we came to the most northernly exploitation on the vein where it shrinks to a width of about twelve inches. Returning south to a point near the old division of the line of the two mines, we found a party of workmen engaged in prying down the masses of quartz shattered by a blast that we had heard and even felt, reverberating through the mine, a few moments before. Here the vein is sixteen feet in width, but elsewhere chiefly ranges from six to ten feet. A large flake of solid quartz weighing about twenty tons, lay on the floor of the excavation awaiting the necessary blasting that must precede its removal, while smaller blocks were being tumbled to the bottom of the shoot where they appeared to break into fragments with a crash. The quartz of the entire vein is taken out with no attempt at selection. The vein here, as well as throughout the full workable length of six hundred feet, shows two distinct parts created by the peculiar arrangement of the thin, bluish black bands of slate that give divisional markings to the quartz. The more narrow portion next to the hanging wall is much more finely and frequently dissected by the slate lines than that next to the foot walls where the quartz is but massively divided by vertical curving, and, occasionally connected, black streaks. Even in their close assimilation these two divisions have not only different values but titles decreed to them by the miners. That next to the foot wall is known as the boulder ledge, because in sinking the original shaft this portion only joined the other after a certain depth had been reached on what is known as the quartz ledge. The vein dips east at an angle, as before stated, of eighty degrees. The foot wall is composed of a black iron slate, extending back a hundred feet or more to the clay slate proper, and near the lode filled with knotty nodules of quartz. The hanging wall is greenstone, hard and smooth of polish, with occasional inequalities. It is marked by many horizontal veins of quartz one and two inches in width and nearly two feet apart, linked together by smaller vertical seams. These small veins have no direct connection with the mass of the ledge, but undoubtedly are feeders of the metallic wealth. Sometimes a vertical break or step three or four inches in height, occurs along the hanging wall causing by its influence a regular separating seam or fracture clear across the vein. After descending within a few feet of the bottom of the deepest shaft which workmen were timbering, we entered the lower drifts north and south, above which the quartz had been taken out for some distance. Here we had startling evidences of the great pressure exerted upon the timbers of this mine, which are required to be replaced where continuous openings are necessary every six months. Posts and sills three feet in diameter were jammed into splinters and the ends of others driven as closely through the sides of those against which they had been braced as if fired from a swamp angel. Singular as it may seem to the uninitiated, this immense pressure is not due to the over-hanging, solid mass of trap, but to the downward pressure of the less stable iron slate of the foot wall. After ascending a short distance by a ladder and traveling over a few places where the only footbold was afforded by the round smooth surfaces of timbers set far apart, and where caution demanded a tight grip of the projections of the walls and posts before a move was advisable, we entered the Badger shaft and were soon on our way to the surface by the same mode by which we had accomplished the descent. A portion of the distance the shaft is quite contracted, where, in spite of this semi-annual timbering, performed here as well as in the other shaft, the walls which eight years ago were eight feet apart have managed to approach within four feet of each other. In a ravine near by, a recent depression marks a settling in the mine but fortunately the character of the surrounding ground indicates no danger and but little inconvenience so long as the needful openings are timely and properly timbered.

Half a mile north of the Sutter Creek is situated the Lincoln Quartz Mining Company's claim of 2100 feet, first located in the year 1850. It has a shaft down four hundred and fifty feet, which is worked by the aid of a twenty-horse power engine. Twelve hundred gallons of water are hoisted from this shaft every hour. The ledge for a distance of one hundred and twenty-five feet, averages a width of six feet, of which about two feet of quartz, next to the hanging wall, is bluish grey in color, and contains fine particles of gold, mostly in the fine slaty seams, the balance, a milk white quartz, holds gold of a coarser character. The vein runs in line with the Eureka and Badger, about fifteen degrees west of north, and has the same dip and wall rocks. The quartz gradually grew poorer in gold from the surface to a depth of four hundred feet, since when it is said to have turned out richer than ever before. The rock is claimed to yield from thirty-five to forty-five dollars per ton. One hundred and twenty tons are extracted monthly and crushed at a sixteen-stamp mill near by. From one to two hundred feet east of this ledge are a number of shafts and openings on veins and seams of quartz in the greenstone, some of which are being worked to a slight depth, and are said to yield the prospectors moderate returns.

M.

The English National Debt.—England, during her wars, has had occasion to borrow large sums of money. Her subjects have been appealed to in much the same manner as the people of the United States have been called upon by the Federal Government, to furnish the "sinews of war" in our present struggle. The appeals in both countries have been patriotically and promptly answered. The English Government, in calling for these loans, has done so with the express stipulation that re-payment could never be called for, except at the option of the Government. The interest, only at a stipulated rate, could be demanded. These loans are now known in England as the "funds," or "public securities." The loans asked of the people by the Government at Washington are to be repaid, both principal and interest.

Gold on Lake Superior.—The reports of rich gold deposits on Lake Superior, long deemed fabulous, appear to be in a fair way to full confirmation. Letters state that there can be no doubt of the existance of valuable gold deposits in and around the Huron Mountains. Preparations have been made for a thorough exploration. The Houghton *Mining Gazette* has the following editorial paragraph, the editor having just returned from the district where the gold veins are said to exist: The discoveries in gold bid fair to eclipse, by far the most sanguine expectations ever formed of the silver lead. At first, the analysis showed an amount of gold in the pyrites of iron, equal to from $60 to $100 per ton of ore. Other samples have been obtained within the past three weeks, which upon analysis, have, to the astonishment of everybody, yielded as many and in some cases, more ounces of gold, than it had before shown dollars' worth. These analyses have of late shown one pound of gold per 100 lbs. of clean ore, and one of them made by Mr. Williams this week, has shown *thirty two pounds* per ton, and had he the facilities to make a complete analysis, it would have shown a small amount more. Large entries of land have been made in and around the Huron Mountains, and we hear that 13,000 acres of land were taken up last week. But little more land has been left for entry in that section, we would think, and another field must be found for operations.

BRIEF MENTION.

The continued drought has seriously affected the wells throughout Napa Valley—so much so that some wells, formerly abundantly supplied with water, have entirely dried up.

Judge Carter, of Amador county, has presented his valuable collection of minerals (said to be the finest private cabinet in the State) to the State Agricultural Society.

A monster cheese, weighing four thousand pounds, made by T. F. Neagle for the Steele Brothers, of Santa Cruz, will be exhibited at the Mechanics' Fair in this city, and afterwards donated to the Sanitary Fund.

Fourteen citizens of African descent have organized themselves into a quartz mining company, in Mariposa county, and are taking hold of their work with commendable energy and enterprise.

The citizens of Grass Valley, Nevada county, have already contributed $1,400 towards celebrating the Fourth of July, and funds are still coming in.—This is the way that California mines "give out."

The people of Nevada City are raising a fund to build a branch road from that place to Bear Valley, in order to connect with the Pacific Turnpike.

The track of the Pacific Railroad is completed as far as New Castle, and in a few days the Company will receive freight at that point, where they have a commodious depot.

The Amador and Nevada Wagon Road is now open and in good traveling condition.

In Copper City, Shasta county, they are trying to get a mill, and they say that the miners are taking hold of the enterprise; if that is so the thing is done.

The controversy between a portion of the Board of Supervisors and the vote of the people of this city on the subject of the city subscription to the Pacific Railroad, has been finally settled by a decision of the Supreme Court, requiring the Supervisors to subscribe the amount voted for.

The first telegram between San Francisco and the new summer resort, Calistoga Springs, was flashed over the wires last week. To the energy of Sam Brannan all seekers after pleasure or health are indebted for this much wanted institution in our State.

The steamer St. Louis, on Friday last, carried away $1,338,428 of treasure; $1,064,364 was for England.

San Francisco proclaimed literally from "the house tops," on Thursday, that she was loyal to the core. Not a flag staff was to be seen without the flag of the free floating from it, in honor of the re-nomination of Abraham Lincoln, who has "made his calling and election sure."

Secretary Chase sold a million in gold at New York, on June 2d, at 90 and 91.

On the East bank of Carson river there are said to be 100,000 acres of timber land, and the Washoe miners and mill men have already cut and used 250,000 trees from that section.

Sixty head of fine horses, under the guardianship of Capt. Evans, who left the Missouri river on the 6th of April, have arrived in good condition at Virginia City.

The Indians in Humboldt county, N. T., are getting troublesome. A company of Uncle Sam's boys from Fort Churchill have been sent after them.

According to the Oregon papers, the grain crop in that State will be fair. The plums, cherries and other early fruit will fail, but plenty of apples, pears, etc., may be expected.

Sudden deaths are becoming very common occurences. A man named Hennison, aged about 51 years, dropped dead in a saloon, in Gold Hill, N. T., on Monday last, and the wife of Sheriff Gasherie, of Carson City, dropped dead in her house while attending to her domestic duties, on the the same day.

Immigration.—An unusually large proportion of the immigration arriving from over the plains, is stopping in Nevada Territory.

Something of a Depth.—The Gould & Curry Mining Company intend having a forty-horse power steam engine set up in their mine, over four hundred feet below the surface of the earth. It is to be placed there to hoist water and ore from even a still lower depth.

Generosity.—The Bank of England has given a bonus of ten per cent. to all its clerks, on account of the remunerative business done. The example is worthy of emulation by our banks here, who have equally profited in the good time of full coffers. What say you, gentlemen?

On Tuesday, June 7th, an election for Town Trustees was held at Gold Hill, N. T., and the entire population of that flourishing town turned out to vote, being divided into two parties, known as "White Shirts" and "Blue Shirts." An exchange says that the whole thing, when analyzed, resolves itself into the question as to which of two officials in the town are the most popular with the people.

Ill Luck.—A merchant of Philadelphia, who a few years ago was reported to be wealthy, and making annually from five to ten thousand dollars, is now a driver on a passenger railroad car, at nine dollars per week.

Nothing remarkably strange in the above to us. We can point out any quantity of individuals in this city who have been worth their hundreds of thousands, some of whom have now hardly a shoe to their foot. This is hard to realize; nevertheless it is a fact.

Is It So?—We have been repeatedly asked—for reporters are supposed to know everything—if the dividends which were declared by the Pride of the West Mining Company, during the past few months, were legitimate ones, or on the "*cooked* order?" From what we can glean, really we cannot give a definite opinion; but if reports are true, we would be inclined to say they were "*cooked*," and what is more, decidedly *well done*—almost too well done for some parties that bought in at the rate of $84 per share, b 30. No doubt they considered it a *rare* opportunity to invest *permanently*.

False Pride.—The other day while standing on Montgomery street, we perchance overheard the conversation of a party of swaggering youths, scarcely out of their teens, and who were dressed up in the latest approved style, conversing relative to the great difficulty in obtaining respectable employment in this city. One maintained that the idea of lounging up and down the street, playing the part of a broker, was nearly played out with him—another said that what he wanted was a first class situation, something "high toned" and if he could not get such employment as that, which he considered respectable, he would continue in his present line of business—that of general inspector of sidewalks. Now, in looking over some eastern exchanges our eyes fell upon the following, which we extract and publish, being as it is, very suitable for the occasion, as there are many more in this city, similar to the above youths, who are almost starving, waiting for what they term some respectable employment, before they go to work. To them we most respectfully dedicate this paragraph:—

"The idea of 'respectable employment' is the rock upon which thousands split, and shipwreck themselves and all who depend on them. All employments are respectable that bring honest gain. The laborer, who is willing to turn his hands to anything, is as respectable as the clerk or dapper storetender. Indeed the man who is ready to work whenever work offers, whatever it may be, rather than lie idle and beg, is a far more respectable man than one who turns up his nose at hard labor, wearies his friends with his complaints because he can get nothing respectable to do, pockets their benefactions without thankfulness, and goes on from day to day, a useless, lazy grumbler."

Copper Mines in Washoe.—The Virginia *Enterprise* thinks that capitalists in making silver and gold investments in Nevada Territory have been too ready to overlook the important fact that the Territory has other interests, and other deposits of metals precious and valuable in commerce, the yield of which must make Nevada still more famous for metallic wealth than she now is. Prominent among these are the copper mines, to which public attention is now being so profitably turned in California, and giving promise that at no very distant day the exports of native copper will reach close up to those of gold. The *Enterprise* refers its readers to the late important copper developments in Peavine district, on the Henness Pass, an important and growing mineral region, situated directly on the great line of travel between Washoe and California, and through which the Pacific Railroad must soon pass. It is suggested that it would not be amiss for those who take an interest in our mineral lands to examine the claims of the Peavine District. There is undoubtedly a vast deal of mineral wealth in the Territory which is little known or thought of. The copper veins have not received that attention which their importance demands, and we doubt not but such as engage in the development of leads producing this metal will soon find themselves amply compensated.

We clip the following from the Reese River *Reveille*, of June 4th; it breaths the true spirit:—

Californania.—We confess to a yearning for the good old State just over the summit. It may be because we still consider ourselves fresh imports. It is true few men have visited and left California without expressing an almost unconquerable inclination once more to return. The causes of this deep-rooted attachment are varied and many. From the good old days of "forty-nine," to the present, the people have retained the characteristics that belong to cosmopolitanism. Those who were successful became none the less generous that good fortune had fallen to their lot, while the still larger class that adversity had marked for her own, still hopefully battled against fate, and in the face of repeated failure gathered new strength and resolution from the contest, and thereby contributed in no small degree to the prosperity of the State. We are not insensible to the fact that everywhere are croakers predicting a paralyzed future for the Queen State of the Pacific; but to the superficial only come these desponding illusions—her destiny and prosperity and ours are inseparable; unlike in many respects, yet clinging to each other the more closely, from that same dissimilarity they will harmoniously move among the sisterhood of loving States, striving only to excel each other in industry and in devotion to the Union.

Excitement Dying Out.—We have seen a letter recently received here from a responsible party in the East, who states, regarding the mining stock excitement, the following:—"The excitement in mining stocks in New York and Boston was what I predicted in the first instance—that it would be only a temporary affair, and, in fact, a 'nine-day wonder.' It has commenced already to subside. If any of your friends are laboring under the impression that they can dispose of any quantity of mining stock at fabulous rates here, they will be very much mistaken. Don't leave San Francisco, then, with that purpose in view, for it is all a delusion. If they take my advice they will remain where they are." In connection with the above we clip the following: "The New York *Herald* estimates that about one hundred and fifty millions of dollars have been invested, in New York and Boston, in mining companies, mostly bubbles."

Killed by a Cave.—A man named Patrick Norton was killed by a cave, on Saturday last, while working in the street cut on Broadway, between Montgomery and Kearny streets, in this city.

New Mill.—The Columbia Mining Company, located near Columbia, Tuolumne county, were to have started up their new mill on Tuesday last. The Co. has 600 tons of quartz ready for the mill, and expect to find good pay. The mill has been put up under the direction of Mr. John Ferguson, of this city. Mr. Ahner Pitts, of Sonora, has taken charge of the works.

Summary of Mining News.

CALIFORNIA.

Rich Pay Dirt.—The Placerville *News* says that a day or two since Frank Goyan took a pan full of dirt from his claim, which on being panned out yielded $60. The claim is the old Wells, or H. A. P., on Cedar Hill, and was given up several years ago as worthless. It now belongs to Goyan and Dickerhoff. The tunnel is in about 1,000 feet, and several pans full have been taken out recently that yielded over an ounce of gold each.

Fine Mill.—Daegener's steam quartz mill, at Sugar Pine, Tuolumne county, has been finished, and commenced running about ten days since. It is pronounced one of the finest mills in the county, and runs ten stamps for the present. The mortar-block is large enough for another ten stamps should they be required. The engine is 44-horse power, and can easily drive thirty stamps. Mr. H. W. Reese, a skillful and competent assayer, has been employed by the Company to carefully sample and assay the rock taken from the different tunnels of this lode.—The assays indicate that the rock is very rich in gold, although it shows no free gold.

Nevada County.—A correspondent of the Nevada *Gazette*, speaking of the copper mining region in the southern portion of that county says that a fresh impulse has been given to prospecting from the quantities of rich ore being shipped from lodes in this neighborhood. There is the Last Chance company, who have continued their work through the Winter, and are now down 175 feet and have commenced to drift on their ledge. They have hauled out to the road about thirty tons of ore in sacks, which will be shipped immediately. The Western Star is also taking out very fine ore. The Eureka, or Green Ledge, have also continued their works during the Winter, and are now down over 100 feet, and have recently shipped twenty tons more of their ore, which is sent to the San Francisco market. This is the second shipment made from this mine, and is only the ore secured from the width of the shaft as they went down. When they get down a sufficient depth to commence to drift out their ledge, they expect to make regular shipments. The Center company on the same lode as the Eureka have gone to work in good earnest, since the value of the vein has been proved by the Eureka company. A small quantity of the ore from this mine has been sent to this city to have its value fully tested.

WASHOE.

The Abel & Key is now in 320 feet with its main tunnel. The rock ahead is getting softer. The superintendent is running for two separate ledges, both of which will soon be reached.

The Express company is running a drift from a 125-foot shaft, from which very fair looking rock is being taken, which will soon be crushed to ascertain its value.

The Globe company are running a drift from a 140-foot shaft, which will strike their ledge 200 feet below the surface and 150 feet from the shaft. They have now about 50 feet to run. Everything about this claim looks substantial. Three shifts are worked.

The Navigation company encounter much water in their mine; and as all their progress is made by blasting it is very troublesome. They are obliged to cover their ca tridges and fuse with wax to render them water proof.

The La Noble company have a tunnel in 460 feet. They are running on the ledge, and expect to get good rock when they arrive at a point under the surface croppings.

The St. Charles struck some very rich rock on the 1st inst, containing blue sulphurets of silver in large quantities. They had recommenced work only a few days previously, after a suspension of operations for several weeks.

Jewett & Shepard.—In our issue of the 28th inst., we noticed the fact that this company had struck their ledge in a drift near the bottom of a 225-foot shaft. Since that time the company has had 6,300 lbs. of the rock crushed, taken unassorted as it came from the lead, with the following result: Gold, $70.31; silver $31.43—total $101.04. They have since got the lead in the bottom of the tunnel, looking still better than in the drift. The superintendent is satisfied that he will soon be taking out paying ore. Rock that will pay as well as the above, as plenty as this company appear to have it, ought soon to make the Jewett & Shepard a dividend paying company.

The Crœsus.—The new 40-horse power engine on this mine, with machinery to correspond, is about or quite ready for operation.

The Esperanza is an incorporated company, the stock of which is confined to but few hands. They have 1400 feet of lode, in the south-east part of Silver City—located in 1860. At that time considerable rock was taken out which paid quite well. Work however was suspended after the first year, until less than one year ago, when it was resumed and has since been carried steadily forward. A tunnel is being run into the ledge, which averages about two feet in thickness. It produces chiefly gold, and is said to pay very well. It is thought that this claim will eventually prove of much value.

The Hall company is located on the west side of Gold Hill. It was first located in 1860; but little work was done upon it, however, until early the present year. The mine is now in a fair way for proper development. It is located in the same hill with the Lucern and Echo. Some very fine looking rock has already been taken out.

The Milton struck their ledge a few days since. It was struck in a drift which runs west 110 feet from the shaft, and at a depth of 350 feet from the surface. The rock is pronounced as decidedly rich. The ledge is well defined and the proprietors are fully satisfied that they have "strack it rich."

The Hale & Norcross, which has just completed a fine building, and other important improvements, are now making preparations to put up two fine engines, one of which will be among the largest in the territory, with a 20-inch cylinder and 4-foot stroke. One will be used for hoisting, the other for prospecting. When all the contemplated improvements are finished, the hoisting works of this company will be equal to any on the Comstock range.

The Chollar found some very rich ore last week, as rich as any ever struck in that mine.

The Bajazet & Golden Era have from 50 to 75 men employed at the mine. The lowest depth yet attained is 260 feet.

The Empire.—Sixty tons of rock from the Empire mine were crushed at the Napa mill, Washoe Valley, and returns made, on the 2d inst, of 128 pounds of bullion.

Peavine District.—The general news from this district is cheering, for, notwithstanding hard times, several companies, including the Monitor, Manhattan, Consolidated Pioneer, American, Mansfield, Katy Watkins and the Star claims, are at work night and day upon their several ledges. The Monitor claim, at a short distance from the surface has a 16-foot vein which, according to Dr. Veach, assays $251 in gold and 100.29 in silver.

The Echo is another claim which has been lying idle for a long time, until within a few weeks. Rock is now being raised from an old incline, which it is confidently expected will pay largely, as it assays from $1,500 to $2,000 to the ton. The lode is several feet thick, the bulk of which is rated as second class; a thin stratum of very rich rock accompanies the main lode, which is being sacked as fast as taken out; eight or ten tons will soon be crushed. Several tons of the 2d class have already been sent to the mill. This mine now stands in a very promising condition, and there is good reason for believing that it will soon become a dividend paying institution.

The Lucern company is now taking out some very good rock from its north shaft. This claim has been worked with varying results for four years, but its works have never gone much below water line. It is thought that when the workmen are down as deep as some of the mines in the same district, it will be found a very rich silver bearing ledge. Explorations thus far show that it improves in value with depth.

Emigrant.—The new shaft of this company is now down 130 feet, from which point they are drifting for the ledge. Several feeders have already been cut. Some good rock has been taken from the old workings, but they were rude works, and it was found necessary to begin in a new place. As soon as the ledge is reached, some rock will be taken out and crushed, after which, if the prospects warrant, work will be steadily prosecuted.

HUMBOLDT.

According to the *Register*, mining interests in this section are looking quite encouraging. No improvement in the price of claims, because of the entire lack of one element to a market—the men with the money to buy; but in each of the old districts are several ledges now in so good a stage of development as to induce the hope that they will soon be regularly sending ore to the mills. The milling interest is far behind. Many claims would be further advanced if the prospect for milling facilities was better. No good has ever been done Humboldt but that accomplished by hard blows.

The Gem of the Sierra, according to the Humboldt *Register*, is being worked with great success. It is not yet fully opened, but is, nevertheless, turning out about five tons of rock a week, which is yielding $300 per ton. An effort was recently made to have the company incorporated in this city; but the Humboldt stockholders, being in a majority, refused. Negotiations are pending to put up a mill in connection with the mine.

The Evening Star is having three tons of ore worked at Fall's mill. It is very rich, and considerable speculation has been indulged as to the return. The ledge is three feet wide, and the metal lying in every part. It is considered a very valuable claim, and would probably bring a high price were it in the immediate vicinity of a mill.

Fine Ore has been shown from the claims of the Detroit and Arizona. The Jackson Company finds the ledge gradually improving, and the boys say they will give as good accounts, from ore now assorting for the mill, as have been got from anything at their depth.

Santa Clara.—Work still progresses in the tunnels of the Little Giant, Magna Charta, and Butte Companies—workmen on day and night. Contractors have completed their work in the Miama and Wyoming claims, and new contracts will soon be let.

Manitowoc is improving in appearance—quartz coming in in considerable veins. The Buena Vista Company have found a capital prospect 150 down in the Rising Sun ledge. As fine a show of metal as any ledge in the district. Anderson is 150 feet down in the new incline shaft, with a well-defined ledge three feet wide the whole depth, and quartz now improving in quality. The Arizona is doing good work now, running night and day. Ledge well-defined, and containing very fine ore.

REESE RIVER.

The Reese River *Reveille* claims that the general dearth of business in that section is partially caused by the awkward situations of the mills there and thereabouts. It says: "The most casual observer will notice the inconvenience of every arrangement as they are at present. The cañon where the mills are situated is very narrow and steep, rendering it difficult for wagons loaded with ore to approach or depart; cramping up the machinery, leaving no place for ore houses, roasting furnaces, boarding houses, offices or any other building requisite to carry on so great a business." The same paper states that pack trains are bringing in large quantities of salt from Humboldt, and that great quantities are stored in Austin.

The Rough and Ready Lode.—The *Reveille* states that selling rates of this stock, within the past two months, have gone up from $10 to $100, and back again. That paper is at a loss to account for this fluctuation, inasmuch as few claims in the Territory can show better rock, or that which is more easily got at. Crushings have been made at different mills, and invariably at paying rates. An incline is now being sunk on the lode. Workmen are down twenty-five feet, and the rock looks better than any taken from the surface.

Savage.—Three tons of rock from the Savage claim have been crushed, with a result a fraction short of $1,200 to the ton, according to the *Reveille*.

The Amador Lode.—The Company has stopped taking out rock at the surface, but are pushing their tunnel ahead. They are now in upwards of 600 feet. Some 200 tons of rock are lying at their surface workings, waiting to be hauled to the mill. The ore is said to be of a very superior quality, showing a great deal of horn silver, chlorides and sulphurets.—It is estimated that should this be worked it would return all the money that the company has expended in all its works. It has all been taken out within a few feet of the surface.

Maggie Lode.—Some fine developments have recently been made at this mine. The *Reveille* says: "From a depth of twenty feet below the level of the tunnel, drifts have been run each way, near 60 feet, finding in these some of the richest ore ever brought to light. We have seen large pieces of antimonial ore of great beauty, and which were considered worth fully five dollars per pound." Much fluctuation has been produced in the price of this stock by the efforts of speculators.

Important Discovery, if True.—George Laid, of New Almaden, in this State, writes to the Reese River *Reveille*, stating that he has discovered a substitute for blasting powder, less dangerous and much cheaper, which can be made by any miner, at cost of but two dollars and a half per keg. Mr. Laid says that it is a chemical compound mixed with sawdust, that a man can make twenty-five kegs per day in a common stove boiler, and adds that he is now using it with great success in the New Almaden mines.

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and the Place of Business of the Corporation if it is not in San Francisco.

REVISED EVERY ISSUE.

Advertised in the Mining and Scientific Press

AND OTHER SAN FRANCISCO JOURNALS*.

NAME, LOCATION & ASS'T.	DATE OF ADV'T. & SALE.
Aspinwall, Reese River, 50c	Adv July 15—Sale Aug 3*
Adelaide Consolidated, 50c and 50c	Adv. May 28—Sale June 27*
Agamemnon, Inyo	Adv. May 28—Sale July 6*
Angusta, Augusta, 12½ cents	Adv. May 21—Sale July 25*
Astor, Ravenswood, 50 cents	Sale June 29*
Amador Cons., Amador, R. R., $5	Sale June 15
Amagoza, Salt Spring, four dollars	Sale June 11
Agmemnoo, Kelsey, 5c, 3c and 5c	Sale June 14
Arizona Cons., Eureka, 20 cents	Sale June 15
Argent Oro, Reese River, $1	Sale June 13
Altaville Quartz, Calaveras county, $2	Sale June 14
Alemania, San Antonio, $2	Sale June 18
Arizona, Weaver, $1	Adv. June 13—Sale June 25
Arizona, Weaver, 50 cents	Sale June 13
Antelope, Low Divide	Sale June 13
Apache Chief, La Paz, 50 cents	Sale June 13
Ancho, Inyo	Adv. May 17—Sale June 16
Ætna, Esmeralda, $2	Adv. May 29—Sale June 27
Antrim Cons. Slate Range, $1	Adv. May 21—Sale June 22
Augusta, Calaveras county, $1	Adv. June 28—Sale July 13
Alameda Coal, Alameda county, $1	Adv. June 25—Sale July 9
American	Annual Meeting, June 14
Appollo, Silver Mountain	Sale July 5
Apache Wide West, La Paz, 50 cents	Adv. June 27—Sale July 8
Apollo, R. R.	Annual Meeting July 4
Amador, Cons., Amador, $5	Adv. June 3—Sale June 15
Arbitros, Batopolis, Mex., $2	Adv. July 11—Sale July 23
Amagera	Annual Meeting June 14
Bodie Cons., Mono co., 50c	Adv July 13—Sale July 25*
Bay State, Tuolumne co., $2	Adv June 11—Sale July 11*
Baltimore, Alpine county, 25c	Adv. June 25—Sale July 15*
Brooklyn, Reese River, 50c	Adv. July 2—Sale July 16*
Blue Jacket, Devil's Gate, 25 cents	Adv. June 25—Sale July 9*
Blue Dragon, Inyo, 20 cents	Adv. June 25—Sale July 29*
Brewer, Silver King, 15 cents	Adv. June 25—Sale July 7*
Big Blue Lead Cave, $1	Adv. June 15—Sale June 27
Black Leuge, Reese River, 50 cents	Adv. July 2—Sale July 16
Black Ledge	Annual Meeting July 4
Buckeye, Devil's Gate, $3	Adv. May 6—Sale June 13
Bella Vista, Cacachitas, $1	Sale June 11
Black Prince, R. R., 50 cents	Sale June 20
Beach & Paxton, Virginia, $3	Adv. July 6—Sale July 23
Black Rock Ledge, R. R., $1	Adv. June 15—Sale July 2
Barreteros, Cosala, Mexico, $5	Adv. June 15—Sale June 29
Butte, Santa Clara, $1	Adv. June 18—Sale June 29
Bajazett & Golden Era Cons., $5	Levied May 13, Virginia
Blue Ledge, Lovell, R. R. 50 cents & 50 cents	Sale June 25
Badger, Washington, 25 cents	Adv. June 11—Sale July 1
Ben Bold, Washington, 15 cents	Adv. June 21—Sale July 15
Bixler, $2	Adv. June 27—Sale July 18
Boston, Ohio, 50 cents	Adv. June 29—Sale July 12
Bella Vi-ta, Cocachilas	Adv. May 28—Sale June 11
Baltimore American, Gold Hill, $5	Adv. July 1—Sale July 15
Beard & Seaver, R. R., 50c & 50c	Adv. June 2—Sale July 2
Buckeye, Devil's Gate, $1½	Adv July 9—Sale July 20
Beaver, $1	Adv June 6—Sale June 20
Beard & Seaver, R. R.	Annual Meeting July 5
Black Diamond	Annual Meeting June 14
Baja California, San Antonio, 50c	Adv July 10—Sale July 20
Constitution, Lander co	Sale July 13*
Coso, Tulare county, $1	Adv. July 2—Sale July 16*
Garroll, Reese River, 50c	Adv. July 2—Sale July 16*
Charter Oak, Santa Catalina	Adv. June 4—Sale July 6*
Caledonia	Sale June 18*
Cortez, Cortez district, $2.50	Sale June 20*
Crown Point, Reese River, 50 cents	Sale June 15*
Cedar, Esmeralda	Annual Meeting June 6
Caldwell, $1	Adv. May 15—Sale June 15
Chicago, Reese River, $1	Sale June 11
Chicago, Reese River	Annual Meeting July 4
Catalina Cons., San Pedro, 10 cents	Sale June 11
Copp, Sierra	Sale June 11
Cinnabar, Virginia, 50 cents	Sale June 18
Crown Lead, Mariposa county, $1	Sale June 25
California, La Paz	Sale June 15
Center, Empire, 25 cents	Adv. June 15—Sale June 26
Gollombe, Gold Hill, 50 cents	Adv. May 17—Sale June 17
Consolacion	Meeting June 13
Comopolitan, Gopher, 50 cents	Adv. June 18—Sale July 2
Gnsell, Indian Springs, 25c & 25c	Adv. May 20—Sale June 22
Chrysopolis, Low Divide, 30 cents	Adv. May 24—Sale June 22
Coral, Amador, $3	Adv. June 27—Sale July 9
Caledonia, Gold Hill, $3	Adv. June 24—Sale July 6
Calaveras Iron Mountain, Cornwall, 50c	Adv. June 23—Sale July 13
Comet, 10 cents	Adv. June 25—Sale July 6
Cineo Senora	Meeting June 27
Chrysopolis, Low Divide, 25 cents	Levied May 25
Cossette, Arizona Territory, $1 & $1	Adv. May 29—Sale June 19
Ciruelo Gordo, San Antonio, $1	Adv. July 2—Sale July 14
Commercial, Santa Catalina, 10 cents	Adv. July 2—Sale July 16
Commeree, R. R., 50c	Adv June 4—Sale July 9
Cox & Rose, R. R., $2	Adv. July 2—Sale July 15
Crown Lead, Mariposa co, $1	Adv June 4—Sale June 18
Caledonia, G. H., $1	Adv June 4—Sale June 22
Camargo, R. R.	Annual Meeting, July 5
Codila, San Antonio, $2	Adv July 6—Sale July 22
Chipionena, Mex., $2	Adv June 9—Sale June 18
Gold Springs, C. S., 20c	Adv July 7—Sale July 20
Dexter T. & M., R. R.	Adv June 11—Sale July 11*
Delta, Lander co., 50c	Assessment Adv June 11*
Diamond, Santa Catalina	Adv. June 4—Sale July 6*
Dunkirk, Reese River, $1	Adv. May 18—Sale June 14
Diana, Reese River	Annual Meeting July 4
Don Juan, Mochicahue, Mexico, 15 cents	Sale June 21
Dan'l Webster, Devil's Gate, $1	Adv. June 25—Sale July 16
Downey	Meeting June 30
Daniel Webster. Sac., 30 cents	Adv. May 25—Sale June 25
Don Juan, Silver Mountain, 50 cents	Adv. June 25—Sale July 9
Daniel Webster, Devil's Gate	Annual Meeting June 28
Dianna, R. R., 50c	Adv July 5—Sale July 13
Empire, Rock Spring, 5c	Adv. July 2—Sale July 16*
Excelsior, Reese River District, 25 cents	Levied March 22*
Equal Chance	Annual Meeting June 13*
Eureka Mill, Big Creek, five dollars	Sale June 11*
El Dorado, Virginia, $2	Adv. June 8—Sale June 22
Emelia, Guerro, Mex	Annual Meeting June 20
El Tesoro, La Paz, Mex	Adv June 8—Sale July 5
El Tigre, $12	Adv July 8—Sale July 19
Ethan Allen, R. R.	Adv July 11—Sale July 29
El Alamo de San Antonio, San Anto., $1	Adv. June 10—Sale June 25
Exchange, Low Divide, 13 cents	Levied April 21
Eclipse, Russ, $5	Sale June 25
Empress, Gold Hill, $3	Sale June 11
Empire, Santa Cruz, 25 cents	Sale June 22
El Dorado, Virginia, $2	Sale June 22
El Dorado, Virginia, $2	Sale June 11
Eagle, Quartz, A mador county, $1	Sale June 15
Evening Star, Trinity, 50 cents	Sale June 16
Evening Star, Trinity	Meeting, June 30
East Range, Oro Fino	Adv. May 14—Sale June 14
El Toro, Smaloa, Mexico, $1	Adv. May 14—Sale June 14
Echo, Gold Hill. $3	Adv. Juue 16—Sale July 2
Eclipse, Sierra, 50c	Adv. June 16—Sale June 29
El Taste, Sonora, Mexico, $5	Adv. June 16—Sale June 27
Erie	Meeting June 21, Auburn, N. T
El Taste, Sonora, Mexico, 50 37½	Adv. June 20—Sale June 30
Easteru, R. R., $1	Adv. May 30—Sale June 29
Empire State, Contra Costa county,	Assessment 10 cents
Fork, Blue Mountain	Adv. June 17—Sale July 6
Fortuna, R. R., $1	Adv. May 17—Sale June 14
Franco American, San Antonio, $10 & $1	Adv. May 18—Sale June 18
Fairview	Adv. May 16—Sale June 15
Fellows, Quartz, $1	Sale June 11
Flor de San Antonio, Mexico, $1½	Adv. June 25—Sale July 7
Federal & Republic, Virginia, 50 cents	Adv. May 27—Sale June 27
Fairview	Adv. May 27—Sale June 15
Fairview, R. R., 25 cts	Adv. July 2—Sale July 16
Fairview	Adv. June 1—Sale July 1
Gobernadora, Lower Gal, $1	Sale June 11*
Gertrude, R. R., 25c	Adv. July 2—Sale July 16*
Gold Rock, Calaveras county, 50c	Adv. July 2—Sale July 22*
Great Contral	Adv. May 20—Sale June 29*
Grafton, Reese River, 30 cents	Adv. May 28—Sale June 15*
Great Central Tunnel, Virginia, 40c	Adv. June 18—Sale July 6*
George Leet, Reese River, 50 cents	Sale June 15*
Green Monster, Inyo, $1	Sale June 22*
Geaeral Grant, Slate Mountain, 50 cents	Sale Juue 11
Governor Downey Cons., Buena Vista, $1	Adv. June 23
Garibaldi, Aurora	Sale June 15
Germania, No. 2, 20 cents	Sale June 14
Goodwin, Simpson Park, 25 cents	Sale June 18
Guadalupe de Los Angeles, Durango, $1	Sale June 21
General Hooker, 50 cents	Sale June 16
General Roscrans, Big Creek, 25 cents	Adv. May 31—Sale June 15
Gov. Seymour, R. R., 50 cents	Adv. June 28—Sale July 15
Gov. Seymour	Annual Meeting July 4
Good Hope, Alpino, 75 cents	Adv. June 4—Sale July 18
Gold Hill, Gold Hill, 50c, 50c & 50c	Adv. May 28—Sale June 30
Great Cons., Boise River, Placer	Adv. May 28—Sale July 16
General Graat, Slate Mountain, 50c	Adv. May 31—Sale June 11
Gold Hill Big Ledge, Gold Hill, $5	Adv. June 30—Sale July 15
Good Hope, Alpine, 75c	Adv June 11—Sale June 25
Gobernadora, S Antonio	Annual Meeting June 20
Heidelberg, Marin co., 10c	Adv July 9—Sale July 23*
Henry & Barnard, Weaver, 20c	Adv. July 2—Sale July 8*
Hyack, Reese River, 20c and 30c	Sale June 15*
Humboldt, Humboldt county, $3	Adv. May 28—Sale June 15
Highland Chief, Raymond, 25c	Adv. June 14—Sale July 2
Hartford, Gold Hill, $1	Adv. June 7—Sale July 18
Henry Clay, Great Mogul, 50 cents	Adv. May 28—Sale June 25
Hallock, Monotor	Annual Meeting June 21
Hale & Norcross	Adv. June 27—Sale July 16
Harker, R. R.	Annual Meeting July 4
Honest Miner, R. R	Annual Meeting July 4
Hornitas, Mariposa, $5	Adv July 10
Illinois, Lander county, 60 cents	Sale June 18*
Itasca, Reese River, 40 cents	Sale June 22*
Insurance, Virginia	Annual Meeting June 27
Insurance, Virginia, $1	Sale June 20
Iowa, Esmeralda	Sale July 2
Iowa, Esmeralda, $2	Sale June 13
Imperatrice, Eugene, Blue Mountain, 30c	Adv. June 11—Sale June 22
Independent, R. R., $5	Levied May 6, Gold Hill
Independent, R. R., $1	Adv. June 21—Sale July 9, Gold Hill
I X L, Silver Mountain, 50 cents	Adv. June 27—Sale July 16
Independent, Mt. Diablo	Annual Meeting June 20
Independent, R. R.,	Annual Meeting July 5
Joe Douglas, Reese River, 50 cents	Adv. June 18—Sale July 2*
Josephine, Coso	Aanual Meeting June 20
Josephine, Coso, $1	Sale June 27
Jo Lane, R. R.	Annual Meeting July 4
Josephine	Annual Meeting June 20
Jefferson, R. R.	Annual Meeting July 5
Julia, Virginia, 50c	Adv June 30—Sale July 13
Keoknk, 10 cents	Adv. June 25—Sale July 13*
Kelsey, El Dorado county, 25c	Adv. May 14—Sale June 13*
Kelsey, El Dorado county	Sale June 13*
Kentucky, Mine. Felix, 50 cents	Adv. June 28—Sale July 10
Kappa, Amador, 50c	Adv July 6—Sale July 19
Kern River, Cave	Annual Meeting June 16
Lapland, R. R., 10c	Adv July 2—Sale July 16*
La Marroncna, L. C., $5	Adv July 9—Sale July 9*
Laplaad, Reese River, 50c	Adv July 2—Sale July 16*
La Favorita, Montezuma, Mexico	Adv. June 4—Sale June 18*
Lady Adams, R. R., 20c	Adv. July 2—Sale July 16*
Lord Byron, Devil's Gate, $1	Adv. May 21—Sale June 14*
Lewis Cons., R. R., 25c	Adv. May 28—Sale June 15*
Los Cruzecitas, San Xavier, $6.75	Sale June 13
Lafayette, Gold Hill, $5	Adv. May 18—Sale July 1
Langhorne Cons., Summit, 50 cents	Sale June 27
Lady Bryan, Flowery, $3	Sale June 25
London, Quartz, Siskiyou county, $1	Sale June 11
La Candelama, Durango, Mexico	Sale June 15
Lochinvar, Gopher, 30 cents	Sale June 25
La Blanca, $1	Sale June 22
Las Posas, La Paz, $1	Adv. June 13—Sale June 25
Las Posas, La Paz, 50c	Sale June 13
Legal Tender, Amador, $1	Sale June 22
Live Oak, Washington, 25c	Adv. June 11—Sale July 1
Lone Star, R. R., $1	Adv. May 28—Sale June 22
Lone Star, Soledad, 50 cents	Adv. June 23—Sale July 9
Lone Star, R. R., $1	Adv. May 21—Sale June 22
La Providencia, La Paz, $1	Levied May 16
Lineastor	Annual Meeting June 14
Lady Bell, Del Norte county, 10c	Adv. July 6—Sale July 18
Louisiana, R. R.	Sale June 21
Langhorne, Summit, 50c	Sale June 27
La Fernandes, Hermosillo, Mex., $4	Adv. June 25—Sale June 19
Laurel Hill, $1	Adv July 7—Sale July 20
La Fernandes. Hermosillo, $6½	Adv July 7—Sale July 21
La Chureas, San Antonio	Meeting July 10
La Churcas, San Antouio, 50c	Adv July 10—Sale July 20
Moscow, Esmeralda	Adv June 11—Sale July 15*
Mohawk, Reese River, 50c	Adv. July 2—Sale July 16*
Mt. Eden, Gold Hill	Caution, Adv. June 4*
Meder, Santa Cruz county, 15c	Adv. July 9—Sale July 25*
Monaroh, R. R., 25c	Adv. July 2—Sale July 16*
Mechanics, Clayton, 5 cents	Adv. June 25—Sale July 13*
Mount Zion, Clayton, 50 cents	Adv. June 18—Sale July 6*
Mount Vernon, Smoky Valley, 50 cents	Adv. June 11—Sale June 25*
Minnehaha, Reese River District, 25 cents	Levied March 22*
Mosquito, Calaveras County, $5	Adv. June 11—Sale July 1*
Morning Call, Big Creek, 50 cents	Adv. June 11—Sale June 29*
Mountain Mary, Silver Mountain, 25c	Adv. May 28—Sale June 16*
Mount Eden, Gold Hill District, 50c	Adv. July 2—Sale July 16
Melones & Stanislaus, Carson Hill, $2.50	Sale June 18
Mina Prieta, Ures, $40	Sale June 18
Mountain Queen, R. R.	Sale June 11
Morning Star, Great Mogul, 25 cents, 50 cents, & 50 cents	Sale June 14
McLellan, Virginia, $2½	Sale June 11
Melones Sink, Calaveras county, 15 cents	Sale June 25
Monster, Cons. 25 cents	Adv. June 17—Sale July 2
Monte Cristo, Gold Hill	Adv. June 15—Sale July 1
Meloncs & Stanislaus, Carson Hill, $2.50	Adv. June 4—Sale July 18
Mandot, Del Norte. 50 cents	Adv. June 15—Sale June 27
Mary and Estella, 15c and 10c	Levied Jan. 19 and Feb. 20
Molren, Inyo	Adv. May 17—Sale June 16
Manchester, Monitor, $1	Adv. June 21—Sale July 6
Mina San Fclipe	Adv. May 21—Sale June 24
Minerva, Gold Hill, $25	Adv July 8—Sale July 23
Mineral Mountain, Carson Hill	Sale June 25
Mountuiucr, Humboldt county, 50 cents	Adv. June 23—Sale July 6
Mosidom, San Antonio, 50c	Adv. June 25—Sale July 13
Molitor, R. R., $2½	Adv. June 22—Sale July 9
Marble Valley, Ohio	Special Meeting June 11
Mina Rica de Las Flores, Calaveras county	seven assessments $8
Mineral Hill, White Mountain, 40c & 50c	Adv. June 1—Sale July 1
Minna Prieta, Ures, Mex., $40	Adv. June 3
Moonlight, Indian	Annual Meeting June 16
Monitor, R. R.	Annual Meeting July 4
Mina Prieta, Ures, Mexico, $10	Adv. June 3—Sale June 18
Madison, R. R.	Annual Meeting July 5
Medora, R. R.	Annual Meeting July 5
Minna Rica de Las Flores. $1, $1, $1 & $2	last Levied March 12
Melrose, Humboldt	Special Meeting, July 1, Humboldt City
Melrose, Humboldt	Sale July 2
Morning Star, Great Mogul	Annual Meeting June 15
Moss, Virginia, $5	Adv July 12—July 23
North Superior (copper), Pinmas co	Annual Meeting July 4*
North Star, Santa Catalina	Adv. June 4—Sale July 6*
Nicolaus, Reese River, 25 cents	Adv. May 28—Sale June 15*
Noonday, Contra Costa county, 20 cents	Sale June 22*
North Potosi, Virginia, $12.50	Sale June 11
North Star, Reese River. $2	Adv. July 1—Sale July 15
North Star, Reese River	Annual Meeting July 4
Nevada, Classics, $20	Levied April 9—Virginia
Nonpareil, Tuolumne co., $5	Adv July 8—Sale July 26
North Eclipse, Russ, 10 cents	Sale June 20
North Lawrence & Gnilford Cons. 50c	Adv. June 15—Sale July 11
Norton, $1	Adv. May 18—Sale June 18
Nelson Consolidated, Gold Hill, $2	Adv. June 24—Sale July 7
New Year Diggings, Tuolumne co., $1½	Adv. June 28—Sale July 13
North Potosi, Virginia	Sale June 11
Nevada, R. R.	Annual Meeting July 4
North American, Gold Hill, $20	Adv April 25—Sale June 15
Nuestra Senora de Guadalupe, Mex., $5	Adv July 2—Sale July 16
New Era, Salt Springs	Adv June 7—Sale June 21
Napoleon, $5	Levied June 8
Orinoco, Reese River, 50c	Adv. July 2—Sale July 16*
Ontario & Webster, Montgomery	Annual Meeting June 20*
Ontario & Webster, Montgomery	Adv. June 25—Sale July 9*
Orient, Inyo	Adv May 23—Sale July 6*
Ophir of the Colorado, El Dorado C., $2	Adv. June 11—Sale June 25
Ophir, El Dorado Canon, 15 cents	Ad. June 8—Sale June 20*
Oxford Beta, Silver Hill, 50 cents	Adv. June 18—Sale July 9*
Ophir of Colorado No. 1, Colorado	Sale June 11*
Occidental, Soledad, 30 cents	Sale June 15
Omega, Gold Hill, Virginia, $25	Adv July 8—Sale July 23
Overman, $30	Levied April 16—Gold Hill
Original Græsus, Sierra, $1	Sale June 20
Original Græsus, Sierra, $3	Sale June 20
Ophir of the Colorado, Arizona, $2. Advertised June 18—Sale July 2*	
Olive City, Weaver	Sale June 13
Oxford Beta, Esmeralda, 50 cents	Adv. May 16—Sale June 29
Olympic, Big Creek, 50 cents	Adv. June 25—Sale July 12
Oregon, R. R.	Annual Meeting July 4
Owens River, Inyo, $3	Adv July 9—Sale July 2
Overman, G Hill, $30	Sale June 16, Gold Hill
Porter, Butte co., 50c	Adv July 16—Sale Aug. 3*
Phœnix, Reese River	Adv June 11—Sale July 14*
Peaslee & Sparks, R. R., 25c	Adv. July 2—Sale July 16*
Potomac, Reese River, $1	Adv. June 25—Sale July 11*
Point Arena Petrolenm, Mendocino county	An. Meeting June 25*
Palmyra Consolidated, Palmyra	Sale June 13*
Prima Donna, Devil's Gate District	Sale June 15*
Progress, Reese River, $1	Sale June 18
Pride of Nevada, Reese River, 25 cents	Sale June 14
Paget, El Dorado county, 50 cents	Sale June 15
Peruvian, Devil's Gate, 50 cents	Sale June 15
Progress, Reese River, $1	Adv. June 4—Sale June 18
Peytona, Virginia, $2	Adv. June 17—Sale June 30
Patrocinia & Dolores, Chihuahua, $6	Adv. May 18—Sale June 12
Porter, Virginia	Annual Meeting June 25
Peninsular, San Antonio, 25c	Adv. June 25—Sale July 13
Pride of Nevada, R. R., 25c	Adv. June 4—Sale June 17
Pioneer Coso, Coso	Annual Meeting July 6*
Queen of Antilles Cons, Lander, 25c	Levied March 20*
Queen of the Mountain, Big Creek, 25 cents	Sale June 15
Rhode Island, Mono co., 25c	Adv July 16—Sale July 30*
Rose Matilda, Santa Catalina	Adv. June 4—Sale July 6*
Refugio, Chihuahua	Adv. May 21—Sale June 28*
Rose Linda M. & M. Co., Amador co., 50c	Adv June 1*
Royal Eagle & Cliff, Gold Hill District	Sale June 15*
Rubicon 1, 2, 3 and 4, Keys district	Adv. May 28—Sale June 17*
Rubicon, No. 1, 2, 3, 4, Keys, 10 cents	Sale June 14*
Revenue, Reese River, $1	Adv June 6—Sale June 18
Rose, Humboldt, $1	Sale June 15
Rhode Island, Keys, 10 cents	Sale July 12
Ruba, R. R., 25 cents	Levied March 31
Regima, Inyo, 15 cents	Sale June 17
Red Cap, Amador, 50 cents	Adv. June 15—Sale July 11
Relief, 10 cents	Levied May 19
Rochester, Cons	Annual Meeting June 21
Reese River, R. R., 25 cents	Adv. May 21—Sale June 27
Rancheria, La Paz	Adv. May 24—Sale June 25
Rambler, Slate Range, 50 cents	Adv June 14—Sale June 25
Rio Chico, Alamos, Mex., $1½	Adv. June 16—Sale June 27
Real del Minos	Annual meeting, June 16
Real del Monte Cons., Esmeralda	Adv. April 22—Sale June 16
Roasch, White Mountain, 40c & 50c	Adv. June 1—Sale July 1
Reese River, Orizaba, R. R.	Special Meeting June 27
Rosario & Carmen, Mex., $1	Adv July 4—Sale July 14
R. R. Antelope, R. R., $1	Sale July 6
Saratoga, Lander co., 50c	Assessment Adv June 11*
Southern Belle, R. R., 25c	Adv July 9—Sale July 23*
Silver Creek, Mono co., 50c	Adv July 23—Sale Aug 3*
St. Clair Cons., Smoky Valley, $1	Adv July 9—Sale July 23*
San Francisco, Rock Spring, 5c	Adv. July 2—Sale July 16*
Sierra Madre, Rock Spring, 5c	Adv. July 2—Sale July 16*
Stars & Stripes, Rock Creek, Cal. co., 10c	Adv. June 21—Sale July 9*
Star of Nevada, Reese River, 50c	Adv. July 2—Sale July 16*
St. Lawrence, Inyo	Adv. May 28—Sale July 6*
Suerte, Carmen Island, 25 cents	Adv. June 25—Sale July 11*
Salt Spring Valley, Calaveras county	Adv. May 23—Sale June 11*
Siskiyou Lion, Siskyou county, 50 cents	Adv. June 25—Sale July 12*
San Lorcnzo, Santa Cruz, 50 cents	Adv. June 25—Sale July 11*
Summit Pass, Tuolumne county	Annual Meeting June 14*
Segregated Crown Point, Gold Hill, $25	Sale June 25*
Scorpion, Virginia district	Sale June 18*
Smith & Martin, Reese River	Sale June 13*
Stonewall Cons., Last Chance Hill, $1	Sale June 15

Those marked with an asterisk (*) are advertised in this journal.

San Francisco, Gold Hill, $3.....Sale June 28
San Marcial, Sonora, Mexico, $1 50.....Sale June 22
Sailor, Blue Mountain, 20 cents.....Sale June 15
San Jose de Ventanos, San Dimas, $5.....Adv June 7—Sale June 17
Slate Mountain, Slate Mountain, 25c.....Sale June 28
Stearns C R, 25c.....Sale June 25
South Crown Point, $2 50.....Sale June 18
Snell, Alpine.....Sale June 15
Silver Cliefe, R R, $1.....Sale June 25
Salvaterra, La Paz.....Sale June 15
Soledad, Soledad.....Annual Meeting June 13
Santa Cruz, San Antonio, $2 50,.....Sale June 28
St George, Storey Co, $1.....Sale June 20
Santa Rosa, Inyo, 40c.....Sale June 20
South Eclipse, Russ, 10c.....Sale June 20
Santa Rita, Inyo 50c.....Sale June 20
Sonoma Co, R R, 25c.....Levied March 31
San Fran, Gold Hill, $1.....Sale June 13
Silver Age, Amador, 60c.....Sale June 24
Siempre Vivia, Zarigoza Mex, $1.....Sale June 29
Sirocie, Wood Pt, 50c.....Sale June 20
Sisters, Augusta, 5 cents.....Adv. June 25—Sale July 25*
San Francisco, Gold Hill and Virginia, $3..Adv. June 8—Sale June 28
Stearns, Reese River, 25 cents.....Adv. June 18
San Jose de Veninnos, San Dimas, $5.....Adv June 5—Sale June 17
South Eclipse, Russ, 10 cents.....Adv. June 5—Sale June 23
Santa Rosa, Inyo, 40 cents.....Adv. June 5—Sale June 20
Scorpion, Virginia, 50 cents.....Adv. June 11—Sale June 29
Santa Rita, Inyo, 50 cents.....Adv. June 5—Sale June 29
Stonewall Cons., Last Chance Hill.....Adv. May 30—Sale June 15
Starlight, Humboldt county.....Sale June 22
Sierra.....Sale June 13
Santa Rosa de Ures, Ures, $1.....Adv. June 17—Sale July 1
Sunset, Amador, 50 cents.....Adv. June 15—Sale July 11
San Simon, San Luis Obispo county, 50c..Adv. June 15—Sale June 30
Sierra Nevada, Virginia, $10.....Adv. June 18—Sale June 30
Sonoma, Alpine, 15 cents.....Adv. June 11—Sale June 25
Sonoma County, Cloverdale, 20 cents.....Adv. June 21—Sale July 9
San Nicolas, Durango, Mex., $6.....Adv. June 20—Sale July 2
Sierra Cons. 25 cents.....Adv June 24—Sale July 11
St. Louis, R. R., $1.....Adv. June 24—Sale July 8
Salmander, Mill Valley, 10 cents.....Adv. May 24—Sale July 11
Sharron, Gold Hill, $1.....Adv. May 25—Sale June 15
Seneca, Cons., Virginia, $5.....Adv. June 27—Sale July 11
Siskiyou, Humbug, $1.....Adv. June 28—Sale July 16
Seely, Big Creek, 50 cents.....Adv. June 25—Sale July 13
Solambo, Tuolumne county, $1 & 50c.....Adv. May 28—Sale June 29
Sarah Frances, Webster, 10.....Adv. July 6—Sale July 20
Stonewall Cons., Esmeralda.....Adv. May 31—Sale June 15
Sierra Nevada, Virginia, $10.....Adv. June 18—Sale June 3
San Marcial, Sonora, Mex., $1½.....Adv. June 2—Sale June 22
Sonoma Ledge, R. R., $1.....Adv. July 2—Sale July 16
Sable t, R. R., $1.....Adv. July 2—Sale July 16
Southern Light, R. R.....Annual Meeting July 4
Santa Teresa de Jesus, Sonora Mex., $2..Adv. June 6—Sale June 18
St. George, Virginia, $1.....Adv June 5—Sale June 20
Santa Cruz, San Antonio.....Annual Meeting June 15
Shoshone, Lander co., $1.....Adv July 6—Sale July 20
Stanislaus, Calaveras county 50c.....Adv July 4—Sale July 19
Silver Cloud, R. R.....Annual Meeting July 5
Soledad, Soledad, 25c.....Adv June 8—Sale June 23
Sierra Nevada, Sierra co, 25c..Adv June 15
Salamander, Mill Valley, 20c.....Adv July 14—Sale July 29
San Carlos, Inyo, $4.....Adv July 9—Sale July 23
Surprise, Mariposa, 20c.....Adv July 11—Sale July 27
Spring, Mono co., 50c.....Adv July 10—Sale July 22
Slate Mountain, 25c.....Adv June 10—Sale June 25

Table Mountain, Calaveras county.....Annual Meeting June 13*
Tornado, Colorado, 50c and 50c.....Sale June 15*
Tuolumne, San Francisco District,.....Adv. June 11—Sale June 29*
Tellurium, Amador county, $1.....Adv. May 21—Sale June 11*
Tennessee, Echo, 50 cents.....Sale June 18
Teeolota, San Dimas, $1.....Sale June 14
Techattmeup, Colorado, 40 c.....Sale June 18
Tallulah, Sierra $15.....Adv June 17—Sale July 3
Tecolots, San Dimas, Mex, $1.....Sale June 14
Tolcander, Hamilton, 25c.....Sale June 21
Triunfo, San Antonio, 50 cents.....Sale June 7
Triunfo, San Antonio, $4.....Adv. May 14—Sale June 15
Tulare, Inyo, 40 cents.....Adv. June 16—Sale June 27
Tesoro, La Paz.....Adv. May 24—Sale June 25
Teutonia, San Miguel, 10 cents, 10 cents...Adv. May 25—Sale June 25
Teutonia, Gold Hill, $1.....Adv. June 19—Sale July 14
Tennessee, Echo, 10c. 10c. 10c, 40c & 50c. Adv. May 28—Sale June 18
Texas, R R.....Sale June 21

Union Tunnelling, Santa Clara, H.....Adv June 11—Sale July 16*
United States, Lander county, 3c and 5c..Adv. May 21—Sale June 29*
Union No. 2, Reese River, $1.....Annual Meeting July 4
Upper Lisle, Inyo.....Adv. May 17—Sale June 15
United States, R. R.....Meeting June 28
United States, Virginia, $1.....Adv. July 3—Sale July 16

Vivian, Lyon co, 50c.....Annual Meeting July 6*
Victoria, Reese River, 50c.....Adv. July 2—Sale July 16*
Valparaiso, Tuolumne, 4 assts, $3.....Sale June 15
Victor Hugo, Gold Hill, $2.....Sale June 30
Victor, Alturas co., I. T.....Annual Meeting June 13
Vulcan, Rocland, 2½c.....Adv. June 9—Sale July 20
Vesia, Santa Fe.....Adv. June 3—Sale July 2
Venus, Buena Vista.....Adv June 6—Sale June 20
Vivian, Blue Sulphur Springs, $1.....Adv June 6—Sale June 18
Ventana, San Dimas, $5.....Adv July 8—Sale July 27

White Mountain Cons., Mono co., 15c.....Adv July 9—Sale July 20*
Winona, Arizona Ter., 25c.....Adv July 9—Sale July 27*
Wyandotte, Amador, N. T.....Annual Meeting Jul e28*
Wide West, Calaveras county.....Adv. May 28—Sale June 21*
Wilson, Echo, $1.....Adv. May 21—Sale July 2*
Wm. Mitchel, Silver Mountain.....Sale June 15*
Wall Street, Reese River, 50 cents.....Sale June 18*
Walpi, San Francisco District.....Sale June 11*
West End, Slate Mountain, 50 cents.....Sale June 20
White & Murphy, Virginia, $7.50.....Sale June 14
Weal Chance, Flowery, 37½ cents.....Sale June 13
White Cloud, Virginia, $1.....Sale June 22
Willow Cons., Summit.....Annual Meeting July 4
Whitlatch, R R, $5.....Sale June 24
Wellington, Santa Catalina, 25c.....Sale June 21
Wisconsin, Virginia, $2.....Sale June 11
Washington, Reese River, 50 cents.....Adv. June 18—Sale July 2
Washington, V. & G. D. Cons., Chelon, 25c..Adv. June 9—Sale July 19
Willow Cons.....Meeting June 19
Washington, R. R., 50 cents.....Adv. June 25—Sale July 9
Wide West, Esmeralda, $5.....Adv. June 29—Sale July 9
Wm. Penn, Devil's Gate, $5.....Adv. May 28—Sale July 28
White & Murphy, Virginia.....Adv. May 30—Sale June 14
Willow Consolidated, Summit.....Meeting June 13

Yellow Monster, Inyo, 25 cents.....Adv. June 5—Sale June 2
Yankee Blade, Reese River, $2.....Sale June 20
Yosemite, Oro Fino, $3.....Levied Feb 0
Yellow Monster, Inyo, 20c.....Sale June 20
Yellow Jacket, No. 2, Gold Hill, 20c.....Adv June 5—Sale July 6
Yosemite, R. R.....Annual Meeting July 5

Zanck, R. R., 50c.....Adv June 8—Sale July 9
Zeuith, Mountain Ranch, 50 cents.....Sale June 18

[The mining community begin to appreciate our reasonable rates of advertising, and are turning their patronage to the journal most properly entitled to receive it. The advantage to shareholders of having all mining notices concentrated in one mining journal, is obvious to all, and our terms have been established with a view to effect such a consolidation; and most companies having an object for publishing in any other particular paper, can consequently afford to have their notices appear in our journal also.—Eds. Press.]

Removal.—D. S. Cutter, has moved his Mining Secretary Office to Room 28, Government House, where, in his absence, Brock Johnson will attend to business for him. 23 1m

San Francisco Stock and Exchange Board.—Prices Bid and Asked.

			Saturday.		Monday.		Tuesday.		Wednesday.		Thursday.		Friday.	
WASHOE STOCKS.	FEET.	SHARES.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.
Ophir	1,400	16,800	800	810	820	830	575	631	625	650	800	950	800	900
Gould & Curry	1,200	4,800	500	2,725	2,800	2,475	2,500	2,550	2,625	2,575	3,150	3,200	3,250	3,275
Savage	800	800	2,000	—	—	1,260	1,475	1,400	1,600	1,425	1,500	1,625	2,000	1,825	1,875
Chollar	1,400	5,600	800	515	520	525	550	625	750	550	580	550	600	575	600
Potosi	1,400	2,800	500	—	900	—	—	—	900	—	—	—	—	800	900
Hale & Norcross	400	800	500	250	—	—	—	—	—	450	600	450	601	550	650
Sierra Nevada	3,000	3,000	500	41	50	30	35	40	40	37½	50	36	50	—	50
Caney	2,400	800	60	50	—	52½	70	65	70	60	80	—	—	70	75
Burning Moscow	4,100	4,100	500	48	49	45	57½	42½	45	40	41	42½	44	43	45
North Potosi	2,000	2,000	250	69	71	70	72½	72½	76	67½	70	70	72	70	72
Charles Caney	1,800	1,800	30	—	—	—	—	—	—	—	—	—	—	—	—
Iowa	1,200	1,200	1,000	—	—	—	—	—	—	—	—	—	—	—	—
El Dorado	1,600	1,600	800	—	—	—	—	25	—	—	—	—	—	—	—
Norton	1,600	1,600	50	—	—	—	—	—	—	—	—	—	—	—	—
Burnside	2,800	2,800	500	—	—	—	—	5	—	5	—	—	—	—	—
Adriatic	2,700	2,700	100	10	—	9	14	—	—	13	—	—	5	10	
Pride of the West	1,400	1,400	100	7	6	7	8	7	10	10	10	—	—	5	—
Imperial	1800	4,000	500	126	132½	110	125	130	135	125	140	120	140	130	135
Crown Point	600	1,200	100	—	—	—	750	—	—	—	—	—	—	—	—
Manhattan	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Seneca	—	—	—	12½	—	19	22½	15	24	15	23	—	—	12	24
Mt. Davidson tun'l.	1,000	1,000	200	—	—	—	—	—	—	—	—	—	—	—	—
Caledonia Tunnel	—	—	—	5	15	—	—	—	9	—	10	—	—	—	—
Bajazet & G. Era	4,000	4,000	300	—	30	—	—	—	30	—	—	—	—	—	25
Cedar Hill tunnel	—	1,000	100	—	—	—	—	—	—	—	—	—	—	—	—
Gold Hill Quartz Mill	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ESMERALDA.															
Wide West	1,400	1,400	2,600	12	20	—	25	—	20	—	21	15	20	16	25
Antelope	1,200	1,200	500	—	—	—	—	—	180	—	170	—	—	—	200
Esmeralda	1,600	1,600	1,000	—	5	—	—	—	4½	—	—	5	25	5	6
Real del Monte	4,400	4,400	400	36	40	39	40	40	45	35	42	38	40	34	36
Utah	1,600	1,600	250	20	30	—	—	—	—	—	—	—	—	—	—
Silver Hill	3,000	3,000	500	—	—	—	—	—	—	—	—	—	—	—	—
Nevada	600	1,200	250	—	—	—	—	—	—	—	—	—	—	—	—
Falls of Clyde	6,000	6,000	100	—	—	—	1	—	—	—	—	—	—	—	—
Bamboo	600	600	500	—	—	—	—	—	—	—	—	—	—	—	—
Crockett	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Federal Hope	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Jenny Lind	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
coso.															
Josephine	9,600	4,800	2,500	—	—	1	4	1	4	1	4	1	4	—	—
Willow Springs	2,700	2,700	100	—	—	—	—	—	—	—	—	—	—	—	—
Coso	2,600	3,600	600	—	2½	—	1½	—	4	—	5	—	5	1½	1½
COPPER.															
Napoleon	2,700	2,700	600	—	79	—	80	—	80	—	80	—	80	—	80
Josephine	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CALIFORNIA.															
Lanrel Hill	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rhodes Diggings	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fellowes	2,500	2,500	100	—	—	—	—	—	—	—	—	—	—	—	—
Maxwell	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rock River	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Eureka	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HUMBOLDT STOCKS.															
De Soto	1,980	1,980	100	—	—	—	—	—	—	—	—	—	—	—	—
Great Basin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

City Stock Reports.

Sales of Mining Shares

For the week previous to Saturday, June 11, 1864.

By the San Francisco Stock and Exchange Board, Pacific Board of Brokers, Stock Exchange and the City Stock Exchange Board of Brokers

NAMES OF COMPANIES.	SHS. SOLD.	LOWEST.	HIGHEST.	CLOSING.	AM'T SOLD.
Adriatic	30	9	10	10	290
Burning Moscow	219	40	50	43	16396½
Blue Ledge	1124	8	19	8½	10688
Barnside	24	2½	3½	2½	73
Buckeye	20	6½	6	6	125
Baltic	10	70	70	70	700
Bullion	10	70	65	65	675
Caollar	352	500	650	565	54176
Crown Point	50	8½	8½	8½	425
Caledonia Tunnel	10	7	7	7	70
Crockett	22	5	4	4	108
Dancy	00	70	70	70	4200
El Dorado	10	14	16	14	150
Empress	10	8	8	8	80
Harmon	45	17½	16½	17	752½
Green	5	2½	2½	2½	12½
Gould & Curry	755	2400	3325	3275	520139
Golden Age & Empire	2 5	27	38½	33	9361
Gen. Grant	30	37	37	37	11 0
Good Return	50	75c	75c	75c	37½
Grosch Consolidated	50	1	1	1	50
Hale & Norcross	4	550	550	550	1110
Imperial	10	1.0	130	130	1300
Kohler Brothers	113	9	13	10	1 60
Lady Bryan	2790	23	32	30	53193½
Live Oak	95	1	1¼	1¼	177½
Mountain Tunnel Co.	25	12	12	12	300
Mt. Davidson	278	1	3½	3¼	601
North American	995	105	140	130	104545
North Potosi	200	60	80	70	13721
Nevada, J. G.	25	30	45	30	900
Ophir	648	600	980	900	42380
Pride of the West	71	6	10	10	523
Rising Sun	10	10	10	10	100
Real del Monte	182	35	42½	37½	7470
Savage	8	1400	1800	1800	12450
Sierra Nevada	10	35	40	35	325
San Francisco	90	2¼	3½	3½	250
St. Louis	5	2	2	2	10
Sacramento & Meredith	46	75	75	75	490
Seneca	15	22½	22½	22½	337½
Sheba	10	105	105	105	1050
Santa Rosa	50	1	2	1½	81
Uncle Sam	8	700	700	700	5600
Union, R. D	35	80	80	80	3050
Washington	25	15	15	15	125
Wide West	10	16	16	16	160
Yellow Jacket	2	950	950	950	1900
Sales for the week	.....	.....	.....	.....	1315864½

Gold in New York.

Friday, June 3.....191@192
Saturday June 4.....190½
Monday June 6.....193½
Tuesday June 7.....194½@195.
Wednesday, June 8.....194.
Thursday June 9.....199

Legal Tender Notes.

San Francisco, Friday, June 3.....55¼ per cent.

Mills for Union District.—Arrangements are being made in this city for the erection of two or three mills at Ione City, N. T. Some of the Washoe capitalists have been quietly securing man of the most valuable feet in Union district. Hence the movement for the erection of mills. Ione City will soon become an important mining center.

[Written for the Mining and Scientific Press.]

From Catalina Island.

Editors Press:—Herewith I send you a brief statement of some of the mining operations on this isle:—

Gem of the Ocean.—Work on this mine is prosecuted more vigorously than ever. Tons of fine silver ore are taken out daily, and the mine has established an excellent reputation.

Vancouver.—Still improving; ledge about four feet wide, almost solid; mineral well cased, quite hard, and scarcely a piece is picked up that is not mineral.

Argentine have also struck a good ledge which bids fair to be equal to the best.

In fact rich strikes are coming in on us so fast it is impossible to keep track of them.

Wellington Copper Mine.—A Strike of Silver.—Work is more energetically pushed forward on this mine than ever. The boys are in the best possible spirits. Mr. Vansickel, one of the proprietors, showed us a specimen of ore taken out only twenty-five feet from the surface, which contains a large quautity of black sulphurets of silver, which by acid test (our only way of judging here) is immensely rich in silver. This is as yet the largest ledge on the island; the lode at present about 12 feet wide—mostly containing flattering indications.

The Occidental are taking out very fine mineral, and recent assays prove it to be rich in silver.

The mines of this island have just passed through the trying ordeal which awaits all new mining regions, and having proved their stability and ability to make good returns, capitalists are freely investing, which is a strong indication of mineral wealth.

A.

Santa Catalina Island, May, 20th, 1864.

Discovery.—Workmen engaged on a mine near the Spring Creek quartz mill, Shasta county, have discovered a substance similar to that elsewhere noticed in our columns, to day, as in all probability Fuller's earth.

Bullion from Washoe.—The amount of hullion shipped from Virginia City for the week ending Friday May 3d was $245,334.

Resigned.—R. F. Morrow has resigned the superintendency of the Savage Mining Company.

Treasure.—Up to the present date, $6,305,136 39 more of treasure have been shipped from this State than was shipped up to the same time last year.

Aurora Bullion.—The amount of bullion shipped rom Aurora, through Wells, Fargo & Co, during the month of May was $118,500.

Mining and Scientific Press.

W. B. EWER, ...SENIOR EDITOR.

C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

DEWEY & CO., Publishers.

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☞ For sale by Carriers and Newsdealers. ☜

San Francisco:

Saturday Morning, June 11, 1864.

Another Enlargement.

With the close of the present month terminates Volume VIII. of the MINING AND SCIENTIFIC PRESS. With the commencement of the next Volume, the publishers have determined to permanently enlarge the pages of the sheet from three to four columns, a size but a trifle smaller than that of the London *Mining Journal*, the largest *mining* paper in the world. Our success during the present volume permits us to assure our readers of the permanent improvement and progress in usefulness of our journal.

June 1st, 1864. DEWEY & CO., PUBLISHERS.

MINING SHARE MARKET.

The Mining Share Market has presented a more cheering aspect during the past two days, and a renewed confidence is evidently gaining ground. The receipts from the interior have not for a long time been better. Large orders have been received by telegraph within a few days, for investment on eastern account, and many parties who were anxious a few days since to become sellers, have now withdrawn from the market. Notwithstanding the great depression which has been encountered during the past two or three weeks, confidence in the ultimate value of our mining interests is still unshaken. The panic through which we have just passed will not be without its beneficial effects. It will prove, to a great extent, a pretty effectual check upon mere speculative enterprise, and teach the great mass of buyers to be more cautious in their future speculations. It has already done much toward impressing upon the public mind the importance of more economy in mining operations, and the absolute necessity of intrusting their interests to men of undoubted integrity. Parties who have invested with judgment and discretion, have no cause for uneasiness. Our mines were never yielding better returns; dividend paying companies are constantly increasing, and the continuance of dividends already initiated are, as a general thing beyond contingency. The sales of the past week exhibit a most gratifying improvement over those for several weeks previous. They foot up at the very respectable figure of $1,313,664. More than double the sales of last week.

Ophir still continues quite active, but at fluctuating rates. This stock opened on Monday at $675, dropped to $600 on Tuesday, rallied to $900@980 on Thursday, and again dropped to $880 before yesterday's Board. Fifty-four feet have changed hands at from $600@980.

Gould & Curry has been unusually active, at greatly fluctuating rates; 194 feet have changed hands since our last report, at from $2,400@3,325, closing before last evening's Board at $3,120.

Savage, after finding a seller at $1,400 on Tuesday and $1,500 on Wednesday, advanced to $1,750@1,800 before yesterday's board. This company did not declare a dividend for May; although the receipts for the month were about $100,000.

North Potosi has been more active; 200 shares having changed hands at about previous rates—from $70@80.

Chollar has met with a fair, but somewhat fluctuating business, ranging from $500@630, closing at $565. It is reported that some very rich rock has been struck at the mine during the past week, and that appearances indicate the immediate presence of a large chimney of ore.

Burning Moscow has been less active; it has still further receded and may now be quoted at $44.

Blue Ledge has met with a large business at an important decline. Opening the week at its usual figure it rapidly fell to $8¼@8, nearly 400 shares having changed hands at those figures yesterday.

Golden Age & Empire has been in considerable demand and at materially improved rates. This is now one of the most promising mines in Esmeralda A remark, intended for the Pride of the West, was inadvertently appended to our last week's notice of this company.

The Belcher, Baldwin & Abernethy have declared a dividend of $7 per foot, each, for the month of May, or $21 per foot on the consolidated interest, payable on the 10th instant, at the company's office in Virginia City, N. T. No transaction in this stock has been noted the past week.

The Empire Mill and Mining company have declared a dividend of $30 per share for the month of May.

Lady Bryan has fully maintained its last week's figures with a very large business; 2,710 shares have changed hands at from $26@32, closing at 30. Favorable accounts are still received from the mine.

North American, which had rallied materially on Saturday last, touching $140, dropped on Thursday to $107, but rallied again yesterday to $130. A large business has been done in this stock—1,041 shares having changed hands.

Bullion, G. H., has sold at from $65@70; Daney at $70; Nevada, J. G., dropped from $45@30; Yellow Jacket has been heard from at $950; Uncle Sam at $700; Baltic at $70; Hale & Norcross at $550; Independent at $130; Sierra Nevada from $35@40.

Mount Davidson has again come into notice, in consequence of a reported strike of considerable importance. It has advanced from $1@3¾.

Real del Monte has met with quite a uniform business at from $37½@42½, opening and closing the week at the former figure. Very favorable accounts are received from the mine. A remittance of $13,500 in bullion was received in this city on Friday of last week.

For additional quotations we refer our readers to our tabulated statement of the business of the week.

WASHOE STOCK MARKET.

Review of the Week Ending June 7th, 1864.

The Washoe Stock Market has been almost at a stand still since our last dates. Very little stock is being offered; buyers are few and will negotiate only at greatly depreciated prices.

Jewett & Shepard opened at $17½@$28; dropped the next day to $15 cash, $22½, buyer 30 days; and closed on Tuesday last at $13¾.

The entire business has been as follows: Jewett and Shepard, 85 shares at $13½@18 cash and $22½ buyer 30 days; Lady Bryan, No. 2, 30 shares at $1¼; Baltimore American, 5 shares at $46, and 2 at $35; Pioneer Commercial, 20 at $1¼; Sutro, 30 at $2 and 35 at $3; McDermott, 10 at $7; Harold & Argo, 15 at $1; La Plata Oro, 24 at $6½; Branch mint, 10 at $30, buyer 30; Crescent, 10 at $5½, and 40 at $4½; Randolph, 27 at $7½, and 25 at $7.

Election of Officers.

The following companies at their meetings during the past week have elected their officers as follows:

LA MARRONENA.—Meeting, Wednesday, June 8th; Trustees for the ensuing year, J. O. Eldrige, Wm. Faulkner, A. J. Ralston, Thomas J. Haynes and D. S. Lord. At a subsequent meeting of the Trustees, J. O. Eldrige was elected President and Geo. L. Faulkner, Secretary.

PENA.—Meeting, June 8th; Trustees, D. S. Lord, Wm Faulkner, J. W. Sargeant, A. J. Ralston and W. H. Baxter. At the Trustees' meeting, D. S. Lord was elected President and Geo. L. Faulkner, Secretory.

CROWN LEAD.—Election held June 7th; Trustees, F. A. MacCrellish, M. M. Noah, A. Austin, A. Rosenfield. The Trustees subsequently elected H. A. Cobb, President, W. S. McKenzie, Superintendent, and J. W. Gould, Secretary.

MR. R. C. GRINLEY, of the Sanitary sack of flour, has returned to Reese River, being recalled by sickness in his family. In the meantime it is presumed the famous sack will still go "marching on."

[Written for the Mining and Scientific Press.]

Letter From Owensville.

MESSRS. EDITORS:—Owing to constant employment, almost night and day, for the last five or six weeks, I have been unable to keep up my regular correspondence with your valuable journal—valuable indeed to me, as it is the only paper that has reached me since I took up my abode in this place; and even now my time is so limited that I must be brief.

There have been some valuable discoveries made in Montgomery and Silver Mountain districts since I last wrote you, and claims that were then located have, upon being prospected, proved rich beyond the expectations of their owners. Among those that have paid so well are the Crockett, Pine Leaf, Aristides, Emma Hardinge (what's in a name?) Plymouth rock, and several others, which I will mention in my next. An assay was made from the Pine Leaf, the other day, which showed $6,742 per ton! The ledge is about twelve feet wide, and the rich streak running through it, from which the assay was made, is two feet wide. In my opinion, when the mine is properly opened, it will be one of the most valuable mines on this coast. The Aristides is a very fine gold ledge, in the same district, and so equally distributed is it throughout the rock, that almost every piece as large as a hen's egg shows the metal. Mr. Smith, one of the owners, has sent some specimens to your city, which you can examine by calling on Mr. B. M. Barker, No. 622 Montgomery street.

I would like to mention more of the late discoveries, but time will not permit. Suffice it to say, that we have got the gold and silver country, climate and everything that a people could ask for, except money. That is what is needed now to develop both our mining and agricultural resources. And when that arrives, which it certainly will, you will see one of the richest countries that has ever been discovered. Our town is growing rapidly, and in a short time we shall be independent of all the rest of mankind. Come down and see us then, will you? More anon. VERELAN.

OWENSVILLE, June 2d, 1864.

THE GOLDEN AGE AND EMPIRE.—This is one of the most promising mines in Esmeralda, and is situated on Last Chance Hill. The two companies, the Golden Age and the Empire, were first located in 1860. They were consolidated in March last.—About 1,000 tons of rock were taken out and crushed in 1860 and 1861, yielding at paying rates. The present Superintendent, Mr. Benson, went to work with a few men last December, and in about two months sent down $5,000. A subsequent crushing of 214 tons yielded $35,500, which was received in this city some three or four weeks since. One dividend, of $5 to the foot, has already been paid, and the funds are now in hand for the second. Three dollars per foot is the total amount of assessments levied by this company to date, only $1 of which has been made since the consolidation. The mine has recently been examined by Professor Silliman, who speaks well of it. The deepest shaft yet sunk is 140 feet. Better rock is confidently expected at a lower point. The Company is now taking out rock which is being crushed, from which another remittance will soon be received.

STRIKE.—Mr. Cougdon, Secretary of the Prima Donna Mining Company, located in Devil's Gate District, N. T., has shown us some very fine looking rock recently taken from that company's mine. The strike was made in a drift which had been run 58 feet from a 152-foot shaft, striking the ledge at that point. The rock bears a most striking resemblance to Comstock rock.

"LEAD MINES."—In our item under this heading last week, "N. T." was incorrectly inserted after "Virginia." We did not write it there. Gold Hill *Daily Message* will please take notice.

"SOAP MINES"—FULLER'S EARTH?

During the last few years we have frequently observed in our exchanges notices of the discovery of a peculiar description of mineral to the locality of which the term "soap mine" has generally been applied. The latest discovery of this character is on the American Flat, near Virginia City, N. T. It is found lying adjacent to the lode in the Real del Oro mine, and about sixty feet from the surface. It is described as consisting of a soapy kind of clay, much resembling castile soap, readily forming a lather, and by which dirt may be easily removed from the person or from cloth.

This material is evidently a species of clay, known as Fuller's earth, the ingredients of which are usually about 53 per cent. of silica, 25 per cent. of alumina, 15.5 per cent. water, with 3.5 carbonate of lime, 2 oxide of iron, and 1 per cent. of carbonate of magnesia. This clay is grensy to the touch, shining under a slight friction, crumbles in the open air, melts before the blow-pipe into a white glass; when immersed in water it falls into a soft, pasty substance; color, brown or grey, generally with a shade of green; does not adhere to the tongue. From the great avidity with which it absorbs oil, it has been extensively used by fullers to take grease out of cloth. Its use, however, in this direction, has of late years been greatly lessened by chemical preparations. This material is a far better cleanser than ordinary soap, but produces the reverse effect in felting, as it leaves the pores of the wool and thread more open than before it was used.

Fuller's earth, of good quality, has hitherto been a very rare mineral. More has heretofore been found in England than in all the other parts of the world. It occurs there in regular beds. It has been found, in small quantities, at Rosswein, in Saxony. Some thirty-five years since an article was carefully prepared and widely circulated in the Eastern papers, describing Fuller's earth requesting that samples bearing a resemblance to the description should be forwarded to the writer. Out of about one hundred samples sent, only one, from Virginia, proved to contain Fuller's earth, and that was so full of sand and gravel as to render it worthless. The advertiser had previously heard that it was to be found in a certain locality in Rhode Island, and spent several days in a fruitless search for it. We have been unable to learn that the mineral has ever been found on this continent, unless it exists in more recent discoveries in this State and Nevada Territory, above alluded to. We believe that our market has been supplied altogether from England.

Prof. Wm. P. Blake is now engaged by the "Scott & Perigord Tunnel Company" in making a scientific survey of the Humboldt range of mountains—especially the section through which the tunnel is being run—with regard to its mineral-bearing qualities; also, to report on the feasibility of working those mines. As data on that subject, he has made the preliminary survey of a railroad to run from the big bend in the Truckee river—about forty miles from Virginia—to a point on the west side of the Humboldt range, the whole distance being about 85 miles, and quite practicable for the easy construction of a road. Such a road would transmit ores to the Truckee, where there are some of the best facilities for the application of water power in the world, and an everlasting supply of fuel, which will be brought to the mills at a nominal price.

The Oakland Railroad has already been extended as far as Clinton, to which point the cars will shortly commence running. The road will soon be pushed on through the Alameda valley.

From Idaho.—The Humboldt *Register* says that quite a number of persons have recently returned to Star City from Boise River and Jordan Creek.—They do not give a very flattering account of that region as a mining country.

About the "Formation of Metallic Veins."—Messrs. Editors: In the series of articles on "The Formation of Metallic Veins" there occur a few typographical errors, some too apparent to need correction, and others materially affecting the sense of the ideas to be conveyed. Of the latter class, in No. 1, paragraph seventh, for "such as magnesia," read "such as manganese;" in paragraph eleventh, for "fluor spar," read "fluoriae." No. 3, paragraph first, for "stratic limestones," read "steatic limestones;" paragraph second, for "the writer holds the system," read "the writer holds that the system." No. 4, paragraph seventh, for "and consequently black as sand," read "and consequently black, as sand," the comma having been omitted.

In noticing Mr. Fox's theory of fissures, I wrote from mere remembrance, and unintentionally confounded his experimental production of veins with his observation on the fissures containing the veins of Cornwall. On re-perusal I find that he ascribed the production of the latter to the internal heat of the earth (of which he was a strenuous advocate), posterior to and independent of the eruptive disturbances attendant upon the uplift of the granite and the intrusion of the elvan dykes. Against the general reception of this theory my remarks are equally applicable.

I will here state what I failed to explicitly explain, that I do not believe that more than a few fissures *necessarily remained open until filled with vein-stone*, but that the mechanical fracture, *however slight or prolonged the parting*, produced perpetual lines of division in the strata and masses of rock, which by readily admitting the flow of water and interruptiag the electrical currents, accumulated veins and their metallic contents. The best veins in our State are between the natural divisions of different geological strata, where there never could have been a coalescence. In Washoe many fissures appear to have been produced beneath the ocean and immediately filled to a certain depth with calcareous material, within which veinstone of quartz has since been eliminated from the surrounding rock. In this respect they resemble the veins upon which Werner founded his theory of the sedimentary origin of all veins.

Edward A. Miles.

The Patio Process at the Gould and Curry and Ophir Reduction Works.—The *Territorial Enterprise* of May 27th says:

The Gould and Curry Company are about to change the process of reduction in their mill from the dry to the wet method. The dry mode is very hard on the lungs of the workmen, and is no more economical than the wet plan. They are now engaged in the erection of six large patio platforms, to be used in working the tailings from the mill. The amalgamation will be effected in the tortas without the aid of the wooden wheels commonly used, a number of Mexican mustangs having been procured to be used in treading the pulp. This plan of working silver ore is practised in Mexico, but is very hard on the poor animals, as, owing to the chemicals used in the pulp, their legs are liable to become very sore, and the mercury in the mass is also injurious to their health.

The Ophir Company are also increasing their employment of this method for poor ores.

The series of articles which we are now publishing on the Patio process will, we trust, clear up some points to which less attention has been given by many practical amalgamators than may be required. Those who are adapting this process to pan amalgamation will see much of interest to them carefully traced in this summary of the observations of their fellow-workers in other countries. The waste to which their chemicals are exposed—the action of light and heat—the effect of one ore on another when subject to attrition together—are of importance. Especial notice is drawn to the essential difference between these methods and the principle of treating a uniform product aimed at in the latest European improvements.

The Reese River Reveille now comes to us daily instead of weekly as heretofore. Wm. C. Philips, the former proprietor, has sold out to Fairchild & Co. The paper makes a decidedly good appearance in both matter and manner, and must take a high stand among the dailies of Silverland.

Mariposa Company.

The Mariposa Company, lately formed in New York, have purchased the interest of Mark Brumagim and Trenor W. Park in the estate known as "Las Mariposas," or, in plain English, "The Butterflies," and as some names now prominently before our readers will appear during the recital, we consider this as good an opportunity as any to give a brief

HISTORY OF "LAS MARIPOSAS."

This celebrated tract of land was originally owned under a grant from the Mexican Government to Juan B. Alvarado, and was by him sold to John C. Fremont, and after a time re-sold under a judgment recovered by Francisco O. Campo against J. C. Fremont and other parties, through which sale the interest of Messrs. Brumagim and Garrison in the estate came, and finally passed into the hands of "The Mariposa Company," which company, (organized and incorporated under the laws of the State of New York,) either forgetting, or being wilfully blind to, entirely ignored the claims of Messrs. Brumagim & Garrison; but these gentlemen, not being either blind to their own interests or forgetful of their claims for moneys actually advanced to Messrs. J. C. Fremont and T. W. Park, offered to the new company a chance to purchase from them all their interest in "Las Mariposas" for the sum of (in round figures) $1.75,000. This offer the company indignantly refused, and as Messrs. Brumagim and Garrison were cool, clear-headed business men, they immediately proceeded to commence operations to enforce their claim; and, having first obtained an extensive and thorough abstract of their title, proceeded to institute legal proceedings for the sums advanced and interest thereon. The New York Company, finding that they had found parties who would not be scared, and believing that discretion was the better part of valor, offered, like Captain Scott's celebrated coon, to "come down," and were finally allowed to do so to the amount of $350,-000 in gold coin. The result is gratifying all round, as the sellers are amply recompensed, and at last the Mariposa Company of New York have obtained an absolutely perfect title to the grant whose name heads this article.

"Mount Eden Mining Company," Gold Hill, N. T.—The above named company recently filed a certificate in the County Court reducing their Capital Stock from $600,000 to $360,000, and increasing the number of shares from 1,200 to 1,800, an addition of 600 feet of ground having been added to the claim. This company was originally started as a prospecting company, and afterwards made the location now known as the Owen lode, at Gold Hill, which from the surface made a most excellent showing. The entire ledge, for twenty feet deep, was taken out and put aside for selecting and working at some future day. The Superintendent has followed down an incline on the foot wall for 110 feet in depth, occasionally tapping the ledge to ascertain its value. It has also been traced down the hill toward the ravine, showing that drainage can be had some 800 feet deep from the top of the present shaft by running a tunnel. This ledge is doubtless on the Justis lode, and is known to be at least ten feet in width. The Superintendent, F. Morgan, would be pleased to show any party through the mine, who desire to examine the same, and will give them all required information. Thus far everything done has been with the strictest regard to economy, and the mine promises soon to rank among the best in the Territory. We understand the President, Mr. W. Augs. Knapp, goes to New York on the next steamer, on Monday, for the purpose of endeavoring to invite Eastern capitalists to investigate and become interested in the Company.

Patriotic Stockholders.—As will be seen by our Shareholders' Directory, quite a number of companies announce their annual meeting on the Fourth of July.

Mechanical Department.

Report of the Commissioner of Patents.—We have received a copy of the preliminary or introductory Report of the Commissioner of Patents, (Hon. D. P. Holloway) for 1863, which has just been issued from the press. This report is embraced in a pamphlet of forty-eight pages, giving a brief statement of the financial condition of the Department, a somewhat full argument in defence of the patent system, or policy of granting protection by patents, and a review of the progress of the arts in this country during the last two years. We shall present some interesting extracts from the report in future numbers of the Press and condense and collate whatever we may deem of especial value to our readers. The industry and talent displayed in the preparation of this document is highly creditable to the Department, and presents a most encouraging record of the progress of the mechanical arts, in this country, during a period of political and social disturbance, which one would naturally suppose would have tested our entire energies to their utmost extent, to efforts far from pacific and progressive. So far has this however been from the actual fact, that the patents granted during the year just passed have been equalled in only two former years of our history—and this too, it should be borne in mind has been effected within the geographical limits of only one half of our original territory.

American Steel Manufacture.—The manufacture of steel is comparatively new in America; yet, although it has hardly passed beyond mere experimental operations, it has, nevertheless, thus far proved a complete success. Labor in steel, as in iron, constitutes a large item in the cost of its manufacture, and the lack of skilled hands, of course, has a tendency to run up the price of labor. The late advance in the price of this material, however, has enabled some of our most enterprising iron workers at the East to overcome all obstacles, and to build up what will undoubtedly prove permanent establishments in this important branch of industry. Six large mills are now at work in Pittsburg, with the most encouraging success; and among them are produced all the different varieties of steel found in the market. Before there can, by any possibility, be any material reduction in the price of the manufactured article, the country will be so abundantly supplied with skilled labor as to render the permanence of this new industry a matter beyond a doubt. The Pittsburg works, at the present time, are pressed to their utmost capacity to supply orders.

Large Freight Wagon.—Mr. Paul Wehber, of Marysville, has recently built a mammoth freight wagon, capable of carrying about *twelve tons* of freight. The wagon weighs nearly three tons, and has been built for Mr. William Johnson, who will employ it in the Washoe trade over the Henness Pass road. This is the second wagon of this description which has been built at his shop.

The Steel Shirt Collar is one of the inventions of the day. The collar consists of a single strip of tempered steel, painted, varnished and indented about the edge, in imitation of stitching. It is so constructed that it can be worn either as a "turn-down" or "stand-up" collar. It is fastened, by rubber loops, to the buttons on the neck-band of the shirt.

Testing Bridges.—In a recent case with regard to a bridge, an expert very correctly testified that a measured march of men was the severest test of a bridge, and that the trotting of a horse produced double the vibration of a twelve or fourteen-ton locomotive.

The Nashua Lock Company in New Hampshire makes one hundred and twenty-five different styles of locks and latches. It is the oldest manufactory of the kind in the country, having been established in 1832.

Another Monster Cannon has been successfully cast at the Fort Pitt Foundry, Pittsburg. This last gun is intended for sea service, and is somewhat lighter than the first, although its bore is 22 inches instead of 20. Says the local paper:

This gun, like its companion, was cast upon the Rodney principle, with a hollow core. It may not be uninteresting to give the time in which it was cast. There were four furnaces (3, 4, 5 and 6) charged at 4 o'clock and 15 minutes yesterday morning. No. 4 was ready for tapping at 17 minutes past 11 o'clock; No. 5 at 55 minutes past 10 o'clock, and No. 6 at 45 minutes past 10 o'clock. No. 3 was held in reserve to meet any accident which might possibly occur in the process of casting the gun. At precisely 12 o'clock 51 minutes and 30 seconds, the molten metal was released from its confinement in the furnaces and rushed hissing and seething along the channels which conveyed it to the mold, and in 22 minutes and 52 seconds the undertaking was accomplished, without the slightest untoward incident. Indeed, so complete are the arrangements for casting guns at this establishment, that those who immediately superintend the operation seem scarcely to realize the magnitude of the undertaking, believing that a 20-inch gun can be cast as perfect as the smallest piece of metal machinery.

The 20-inch gun is fast approaching completion, and its complete success is confidently predicted. Thus far, not the slightest flaw has been discovered in the metal. At the last casting, two foreign military engineers were present—officers of the English Royal Artillery. Both these officers have been sent by the English Government to visit our arsenals, navy yards, gun-casting foundries, etc., to observe the improvements we are introducing, and report upon the same. Our English cousins are waking up to the fact that we really are making some progress in military engineering, and appear to be quite ready to take advantage of the same. The London *Times*, in a late allusion to the casting of the 20-inch gun, remarks that, "In the caliber of its ordnance, Europe is now, as it has ever been, far behind America."

New Fire-Proof Armor.—A simple, and said to be an effective apparatus, has been lately constructed by a Mr. Kuhfuss, of Carlsruhe, for the purpose of discovering the whereabouts of the flames in cases where the smoke would prevent a fireman from entering a house in the ordinary manner. Mr. Kuhfuss does away with the mouth-piece and fresh-air pipe hitherto used in these cases. The apparatus consists of a cap made of light material, and covered with a coating of gutta-percha; this cap is drawn over the head, a collar of India-rubber fitting it sufficiently tight round the neck to prevent the smoke from entering. Two holes, filled in with glass, admit light, as in a diving apparatus; and in the region of the mouth and nose two cross incisions are made, which are buttoned up, after a sponge, saturated with strong vinegar, has been admitted, entirely covering mouth and nostrils. Experience teaches that the organs of respiration are not affected by the smoke so long as the sponge is kept wet; and a small bottle of vinegar which the fireman takes with him, enables him to moisten the sponge when required. A whistle, attached to the inside of the cap, completes this very simple contrivance.

A New Compass for the mariners' use has lately been devised, combining many advantages over those previously in use. The inventor is L. G. Vassallo, late of the Austrian navy, but now an officer in the service of the United States. The improvement consists in having engraved upon the glass cover of the ordinary compass a universal sun dial—*i. e.*, the hours of apparent time are engraved upon the compass cover. The arm of the sun dial is erected from the center of the compass cover, and is so hinged at this point as to be moveable at its upper extremity. The arm moves along a graduated arc, thus indicating the latitude. Now, by means of apparent time and latitude, the true meridian can be determined, and this will indicate upon the magnetic card the combined variation and deviation of the compass for the course at the time of observation.

Large Planer.—The Sacramento Iron Works are putting into their shop a large iron planing machine—the largest in the State. It was manufactured by Bennett & Dougherty, of Philadelphia, is capable of planing a piece of metal 20 feet long and 6 feet square, and weighs 27½ tons. The entire machine will be here on Monday. An extremely solid foundation of brick has been laid for its accommodation.

Why Are Carriage Wheels Made Dishing?—Mr. S. E. Todd, writes to the *American Agriculturalist*, proposing and answering the above question as follows:—

Many farmers and good mechanics ask *why carriage wheels are made dishing?* Wheels are made dishing that they may endure the greatest strain under all ordinary circumstances, where great strength of wheels is very essential; and also, for the purpose of making small spokes endure as much strain as large and heavier ones would, were the wheel not made dishing. If a wheel were always to bear a load on a track level from side to side, the *strongest possible form* that a wheel could receive, would be, what we term "straight"—not dishing. But, since carriages must bear loads along slopes and sideling tracks (and must make sudden turns,) as on level roads, the wheels must be made a little dishing. Let us suppose a straight wheel placed resting on one end of the hub, and heavy weights resting on the rim, the spokes would be easily broken at the hub. But, if a dishing wheel of the same strength of timber be placed resting on the large end of the hub, it would very obviously sustain a very much heavier weight without injury. Now, when a wheel of a carriage drops into a rut or hole, or when the carriage is rolling along a steep slope, the greatest weight, as well as the greatest strain, will fall upon those wheels that are in the lowest position. If they are made dishing, the spokes will stand in a *bracing position*, and those wheels will endure a great strain; and, unless the tire should burst—as there is a great strain in that direction—the wheel will sustain no injury, although the strain might be sufficient to crush a straight wheel almost instantaneously, when in that position.

Alto Relievo, or High Relief.—A term used in sculpture or architecture to denote a figure or figures drawn from life, and projecting so far out from the stone or metal on which they are sculptured as to represent the full and natural size of the original body. The same term is sometimes applied to paintings, when they are very boldly executed, and the figures apparently stand out from the canvass. Origin: It will be remembered that in early times we derived our principal knowledge of the fine arts from Italy, and, as our ideas were chiefly borrowed from the Italians, we adopted their terms. *Alto Relievo*, was a term originally used by them, and consisted of two Italian words, literally meaning, "raised high."

New Method of Locomotion, Perhaps.—An English paper states that a new method of locomotion has been devised, by which a speed of six miles a minute is obtained, and capitalists are besieging the British Government to allow them to construct lines for passengers and traffic through all parts of London. The London *Examiner* exclaims on this: "Happy, although unconscious posterity! We envy you; we must crawl through life at the snail's pace of only a mile in two minutes, oftentimes less, while for you awaits the ecstatic bliss of being shot through space at the rate of 360 miles per hour."

Another Substitute for Gunpowder.—Dr. Paul Swift, of Haverford College, Pennsylvania, lately, discovered that sulphureted hydrogen in carbon, forms a very explosive compound, it having blown a hole through a thick oaken bench, upon which the first experiment was tried. The carbon being placed under a receiver imbibes from 90 to 100 times its bulk of sulphureted hydrogen, and becomes very explosive. The doctor, aided by Dr. Robert Chase, of New York, is now pursuing a course of experiments which have thus far been eminently successful. They are confident of having found a substitute for gunpowder, which can be manufactured at less than half the cost of the article now in use.

A young man who was carried fifteen or twenty times around a shaft in Taylor's soap-stone works at Perkinsville, Vt., the other day, had every article of his clothing torn from him, but escaped without a scratch upon his person.

The first locomotive engine was landed last month at Ceylon from the ship Palmerston. It was landed on a bamboo raft, and was to be drawn to the railway station by a team of three elephants.

Mountain Mahogany.—This hard and heavy wood grows in great abundance on the summits of the mountains around Markleeville. Those who have worked it, think it will make very fine veneering.

A Steam Engine of 40-horse power is to be set up in the Gould & Curry mine over 400 feet below the surface of the earth. Its labor will be to hoist water and ore from a still lower depth.

A Practical Invention.—We have been shown a new-fangled rat-trap, invented by a citizen of Sacramento, which beats anything we ever saw or heard of for exterminating long-tailed vermin. The trap shown us is constructed of wire, and in length is about twenty inches, and is divided into three separate rooms. The first room is the reception room, in which the alluring bait is suspended, but never disturbed, for his ratship has something else to think of. The scent of the cheese allures the rat into the front door, and before his caudal appendage is fairly inside, his weight upon a false floor in the bottom of the trap causes a lever or beam on the top of the cage to tilt, and in a trice the front door is closed, and by the same action, that leading to room No. 2 is opened. Having entered the next room, he there steps upon a false floor, which operates as in the first apartment, and shuts the door behind him, and at the same time opens the front door all ready for another rat. The baited rat having been shut into the second room, finds only one chance to get ont, which he immediately proposes to do by raising a little door that lays in an angular position, and which fastens him into room No. 3. The trap is continually set, and from actual experience it has proven its entire practicability and usefulness, one night having caught eleven and other nights catching four, five and six at a time. The inventor has applied for a patent, and they will soon be offered for sale.—*Sacramento Star.*

Electro-Motive Engines.—Messrs. Storer and Hancock, of Nottingham, have provisionally specified an invention, which consists in thus constructing electro-motive engines:—In a suitable frame they fix a ring of magnets, which are charged with electricity, from a battery in the usual manner, and inside this ring of magnets is fixed a circular rack or wheel with internal teeth. Upon a central shaft, to which rotary motion is to be communicated, they fix four or more arms, each of which carries a wheel with six armatures, more or less, free to revolve upon an axis, and upon this axis there is also a toothed pinion gearing into the circular rack. Upon the current being applied to the magnets in proper order the armatures are attracted, revolve on their axis, and carry round the arms and shaft to which they are connected. Power for any purpose required may be taken from this shaft. In some cases they keep the arms carrying the armatures stationary, and drive round the circular rack or wheel, and take the power from it.

A New Motive Power has been invented by Profs. Branstrand Mattencei, of Florence. The engine may be described as atmospheric, a vacuum being produced in the cylinders, under the pistons, by the explosion of a mixture of atmospheric air with an inflammable gas. The explosion is said to be without noise and free from danger. The consumption of gas used is one third of a cubic metre per horse-power per hour. The gas is said to be produced at a cost of less than a penny the cubic metre; consequently a horse-power can be obtained at about one-third of a penny the hour. The machines constructed are reported to work satisfactorily, and the principle to be equally applicable to marine and locomotive engines.

American Fish-hooks.—Fish-hooks have hitherto been chiefly made in Europe, and mostly by hand. A New Haven (Conn.) mechanic has recently invented a machine, which, according to an Eastern paper, "chews up steel wire into all sizes of hooks, and spits them out as fast and as perfect as a pin-machine."

Tinted Cheeks.—A curious work on cosmetics, recently published, strongly condemns rogue and pearl powder, but informs the ladies how they may give color to their cheeks without danger. Thus: "Take a fragment of bright crimson silk, dip it in strong spirits of wine, and rub it over the cheeks till a moderate tint appears. This defies detection and is harmless."

The Folsom *Telegraph* says that the Folsom Granite Flouring Mills are the most extensive in the State, employing about thirty hands, and turning out over 700 barrels per day.

A Car Buffer is in use on the Midland Great Western Railway, which, placed on the rails, will bring up a heavily loaded train going at the rate of twenty miles an hour, in a space of nine feet, without injury to the cars.

San Jose Railroad.—This road is in a flourishing condition, and its business is steadily increasing. The receipts, thus far, have been as follows: January, $15,495; February, $22,966; March, $25,120; April, $29,627; May, $38,349.

Suggestions About Advertising.

Advertising at the Mines.—Companies whose notices are required to be published in the county in which the mine is located, should be careful to have their advertisements forwarded in season.

No Assessments should be levied upon Friday where the publication is to be made in the issue of a paper published on Saturdays only, at the mine or elsewhere.

On Record.—As a large proportion of our edition will be bound and preserved in volumes, those who patronize our columns will have their advertisements preserved with a valuable record.

For Serving Personal Notices.—Secretaries patronizing the Press can have their advertisements neatly printed upon slips at $1 per hundred.

Advertising Blanks for Secretaries who design publishing notices in the Press, sent to order or furnished gratis, upon application to the office.

The Earlier the Better.—Our advertisers are requested to send in their favors as early as practicable.

Good Throwing.—The Weber steam fire-engine at Stockton recently threw a stream of water 235 feet high.

The Daily Evening Star is a new and brilliant literary light which has recently made its appearance in Sacramento.

The Mining and Scientific Press Patent Agency.

OFFICE, 57, GOVERNMENT HOUSE, SAN FRANCISCO.

Information About Obtaining Patents.

The Patent Law Amendment Act, of March 4th 1861, and March 3d 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be witheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent?" A positive answer to this question is only to be had by presenting formal application for patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the Mining and Scientific Press. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Preliminary Examinations.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search made at the U. S. Patent Office, Washington, through the medium of our associate in that city, to ascertain whether among all the patents and models there stored, any invention can be found which is similar in character to that of the applicant. On the completion of this special search we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollars. This search, though it involves the expense just named, will usually prove satisfactory. If the same device has been before patented, the time and expense of constructing models, preparing documents, etc., will in most cases be saved; if the invention has been in part patented, the applicant will be enable to modify his claims and expectations accordingly. Many other obvious advantages attending the Preliminary Examination; although the strictest search does not always enable the applicant to know positively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publication; or some other person has been previously rejected on an analagous device; or some other invention for a similar purpose, but partially resembles the applicant's in its construction; or the Government makes an unjust or uncommon decision. Against none of these contingencies does the Preliminary Examination provide; it will, however, generally inform the applicant whether an improvement similar to his and used for the same purpose has ever been patented or not in this country.

Persons desiring the Preliminary examination are requested to remit the fee ($10), and furnish us with a sketch and description of the invention.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely, to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of government that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues.—If the application is rejected we cause a thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have access to all the drawings, models, books and specifications filed in reference, and we report the result as early as possible to our client. For this service we make no charge. If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The laws requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimensions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: Dewey & Co., Mining and Scientific Press, rooms 56 and 57, Government House, corner of Sansome and Washington Streets, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail—The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signiture and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due, and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued, the applicant will be notified to remit the last installment of the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months and even more. We make a special point to forward our cases as rapidly as possible.

Return of Models.

Under the new law, if the applicants case has been rejected he is entitled to withdraw his model from the Patent Office.

This law applies to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expense

Application for Patents, Designs, Trade-Marks, Labels, etc.

Under the new law patents may be taken out for any new form of any article, also for tools, patterns, castings, machine-frames, stove-plates, borders, fringes, all new designs for printing, weaving or stamping upon silks, calicoes, carpets, oil-cloth, prints, paper-hangings, and other articles. Trade-marks, labels, envelopes, boxes and bottles for goods, may also be patented; likewise works of art, including prints, paintings, busts, statues, bas-relief, or compositions in alto, or basso relievo, new dies, impressions, ornaments to be placed upon any article of manufacture, architectural work, etc.

Our facilities for the prompt preparation and securing of patents are of the most extensive character and our charges are very moderate.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the tariff of fees established by law:

On every application for a design, for 3 years and six months...	$10
On every application for a design, for seven years.....	15
On every application for a design, for fourteen years.....	30
On every caveat.....	10
On every application for a patent.....	15
On issuing each original patent.....	20
On filing a disclaimer.....	10
On every application for a re-issue.....	30
On every additional patent granted on a re-issue.....	30
On every application for an extension.....	50
On the grant of every extension.....	50
On appeal to the Commissioner from Examiners in chief.....	20
On every appeal to the Judges of Circuit Court, D. C.....	25

Infringements.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunction from the Court, to an arrest of or prohibition from the employment of his machinery, shop, works, factory and men in production of the article.

In addition to injunction the infringer is liable to be mulched in treble the amount of damages awarded by the jury. The maker, the workman, the seller, and the purchaser, if a user, are all liable either collectively or individually.

Having access to all the patents, models, public records, drawings and other documents pertaining to the Patent Office, we are prepared to make examinations and give opinions upon all infringement questions, advise as to the scope and ground covered by patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Appeals.

In rejected and other cases, the new law provides for an appeal from the Examiner-in-chief to the Commissioner in person, on the payment of a fee of twenty dollars. A further appeal may be taken from the decision of the Commissioner to the U. S. Court, of the District of Columbia. These appeals are heard by any of the Judges before whom the applicant elects to bring the case. No Jury. All the papers, models, etc., are sent by the Commissioner to the Judge, who then reviews the case, and either sustains or reverses the Commissioner's decision.

The party taking the appeal pays an additional fee of twenty-five dollars. The Judge appoints a day of hearing. The applicant can appear in person or by counsel to state his case and file a written argument. Five days are allowed the opponent to put in an answer, and a similar period to the appelant for a closing reply.

Many important cases are brought before the Judges on appeal and the decisions of the Commissioner are not unfrequently reversed.

We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, Government House corner San Sansome and Washington streets, San Francisco.

Mines of Brown's Valley, Yuba County.

MESSRS. EDITORS:—I purpose to give you some practical information concerning the mines in Brown's Valley and vicinity. The Pennsylvania is the oldest claim and one of the first locations. This Company have sunk a shaft 260 feet deep on their southern extremity, and adjoining the Jefferson claim. They have four drifts north; the bottom drift is in about ten feet; the next upward, thirty; the next, 160, and the uppermost, thirty feet. This last drift was unexpectedly pushed through to the old works, containing a large body of water; two men were working in the shaft, thirty-six feet below the drift, one of whom was drowned, and the other narrowly escaped with his life. These drifts have been run so as to give thirty feet of backs to stope out. It was well known that a large body of water still existed to the north, and three weeks ago it was determined by the President, Mr. Van Muller, to suspend operations in the shafts and bottom drifts, and to push the No. 2 drift through. On Thursday night, the 27th ult., a blast hurst through and let in some 6,000 feet of water. The pump was set to work, and in two days the water was pumped out without any damage having been done.

At this shaft they have a steam engine, with pumping and hoisting apparatus; also eight stamps and two sets of Chile mills. The vein in the bottom of the shaft, and bottom drift, is four feet thick, and looks very promising; yet the quartz crushed by the mill has hitherto failed to pay current expenses.—The quartz raised from No. 2 drift the past three weeks has been thrown away as being worthless.—They have now seventy feet of old, worked out, crushed ground to timber up and secure, so as to get to the north end of Mr. Rule's old incline, No. 1.—There are four men at this work; everything else here is idle. About 600 feet north of No. 1, is shaft No. 2. This shaft is in the central part of the claim, and is down on the course of the lode eighty feet. A drift has been run north twenty feet. Both shaft and drift have been stopped because the rock would not pay. This is somewhat singular, as Rule worked the same rock profitably, with only a windlass to hoist with, and the quartz to haul a mile to the mill.

A cross cut is being driven eastward from the end of the drift. After driving twelve feet a vein was cut through, two feet thick, composed of quartz, clay, and slate. A drift has been run a few feet north and south on this lode, without any improvement; the cross cut is in forty feet, and still going on—for what purpose is a mystery. Here they have a steam engine, with pumping and hoisting gear. This is no wild cat scheme (though we have some in this neighborhood), and I have no doubt that it will prove to be one of the best mines in the Valley; yet to effect this desirable object it must be managed very different to what it is at present. A MINER.

BROWN'S VALLEY, June, 1864.

Favorable to Inventors.—Persons holding new inventions or machinery and important improvements, can have the same illustrated and explained in the MINING AND SCIENTIFIC PRESS, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

American and Foreign Patents.—Letters Patent for Inventors can be secured in the United States and foreign countries through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past year.

Worth Considering.—Advertising has proved the medium of success to many of the most prominent business men of the world. Merchants, Inventors, Builders, Patentees, Manufacturers, Foundrymen, Machinists, and, in fact, all who wish to call the particular attention of the Mining, Professional, Mechanical and Industrial members of the community to their business, should not fail to advertise in the MINING AND CIENTIFIC PRESS. The circulation of the paper is extensive, and has a wide range, reaching the most intelligent readers in every mining settlement of importance on the coast. A large number of copies are also sent East. Our terms are reasonable. "Live and help live" we believe to be a sensible motto.

MINING AND SCIENTIFIC PRESS.—This is one of our most valuable exchanges. It comes to us filled with the most valuable articles, original and selected, upon the subject of mining, and we scissorize it to an awful extent. Every person engaged in mining to any extent, should be a subscriber to the PRESS.—*Golden Era News.*

RICHARD WEGENER,
Accountant, Mining Secretary,
AND GENERAL AGENT.
No. 204 Montgomery St., Southeast cor. Montgomery & Pine Sts.,
11-m SAN FRANCISCO.

BLASTING POWDER!

Prime Blasting Powder, on Consignment
And for sale in lots to suit purchasers, by
J. S. CURTIS,
6v8tf. No. 405 Front street, San Francisco.

For Sale—A Useful Invention.—EDITORS PRESS:—I wish to call the attention of mill owners and manufacturers of mining machinery, through your columns, to a device of my invention for feeding the ores or materials to be crushed, in the common stamp mill, so much in use in this country. It is simple and efficient, doing the work with far more regularity than can be done by hand; it costs but little, and requires no more attention than can be given to it by some one about the mill, without neglecting his other duties. As I have not the means to introduce the above, I would like to enter into arrangements with some one to aid me, and share the profits of the invention. I would add, it has stood a working test, under my supervision, and has likewise received the approbation of Scientific men.

Any communications on the subject, addressed to J. C. H., El Dorado, El Dorado Co., Cal., will receive prompt attention. 21-4t

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Coughs and Colds.—The sudden changes of our climate are sources of PULMONARY, BRONCHIAL and ASTHMATIC AFFECTIONS. Experience having proved that simple remedies often act speedily when taken in the early stages of the disease, recourse should at once be had to "*Brown's Bronchial Troches*," or lozengers, let the Cold, Cough, or Irritation of the Throat be ever so slight, as by this precaution a more serious attack may be effectually warded off PUBLIC SPEAKERS and SINGERS will find them effectual for clearing and strengthening the voice. Soldiers should have them, as they can be carried in the pocket and taken as occasion requires.

Agents for California, Redington & Co., San Francisco. 23-1m

Excelsior Gold and Silver Mining Company, Reese River District, Lander county, Nevada Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 22nd day of March, 1864, an assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable in Gold Coin of the United States to the Secretary, or to SAMUEL DONNELLY, Superintendent of the Company, at Austin, N. T. By order of the Board of Trustees.

J. CAMMET, Secretary.
20-5t Office, No. 321 Front Street, San Francisco.

NOTICE.

Is hereby given that from and after June 15th, 1864, the Office and principal place of business of the Emmett Copper Mining Company, will be removed from San Francisco to Copperopolis, Calaveras County. San Francisco, May 14th, 1864.

M. G. ELMORE, Secretary.
20 Office, 645 Clay Street.

Dissolution of Copartnership.

The Copartnership heretofore existing between George Gibbons and W. J. Woodley is this day, the 20th of April, 1864, dissolved by non-agreement of the above parties.

CAUTION.—The public against negotiating or purchasing any mining stock heretofore existing under and in said partnership.

GEORGE GIBBONS.
Santa Catalina Island, Los Angeles Co., 20th April, 1864. 21-4t*

Meetings.

The Annual Meeting of the Stockholders of the Pioneer Coso Gold and Silver Mining Company, Coso District, for the election of Trustees and the transaction of other business, will be held on WEDNESDAY, the 6th day of July, 1864, at 3 o'clock P. M., at the office of the Secretary, No. 305 Montgomery street, San Francisco. A punctual attendance is requested.

J. S. LUTY, Secretary.
San Francisco, June 2, 1864. 23-4t

Wyandotte Mining Company, Amador District, N. T. The first ANNUAL MEETING of the Stockholders of the Wyandotte Mining Company, for the election of Trustees, will be held at the office of the company, No. 620, Washington street, on Tuesday, June 28th, 1864, at 7½ P. M.

23-4t W. AUGS. KNAPP, Secretary.

Ontario and Webster Gold and Silver Mining Companies, Montgomery District, Mono County, California.

Notice is hereby given that the Annual Meeting of the Stockholders of the Ontario and Webster Gold & Silver Mining Companies will be held on Monday, the 20th day of June, 1864, at 7½ o'clock P. M., at the office of the Companies, 302 Montgomery street, San Francisco. (22-td) H. B. SHELDON, Secretary.

Equal Chance Mining Company.—The First Annual Meeting of the Stockholders in the above named Company, for the election of Trustees, will be held on Monday, the 13th day of June next, at 2 o'clock, P. M., at the office of the Secretary, 614 Montgomery street. D. M. HOSMER, Secretary.

San Francisco, May 13th, 1864. 20-td

Table Mountain Copper Mining Company.—Notice is hereby given, that the Annual Meeting of Stockholders of the Table Mountain Copper Mining Company, Stanislaus District, Calaveras county, for the election of Trustees, amendment of By-Laws, and the transaction of any other business that may come before the meeting, will be held, at the office of the Company, No. 645 Clay street, San Francisco, on Monday, the 13th day of June next, at 7½ o'clock P. M. M. G. ELMORE, Secretary.

San Francisco, May 21st, 1864. 21-td

Summit Pass Gold and Silver Mining Company, Tuolumne County, California.

The regular ANNUAL MEETING of the Stockholders of said Company for the election of Trustees, will be held at Room 16, No. 523 Clay street, on the second TUESDAY of June, at 7½ o'clock, P. M.

T. H. LUDLUM, Secretary.
San Francisco, May 14th, 1864. 21-3t

Point Arena Petroleum Mining Company.—The Shareholders of the Point Arena Petroleum Mining Company are hereby notified that the Annual Meeting, for electing officers and other general business, will be held, at the Secretary's office, corner of Sansome and Jackson streets, San Francisco, on the 25th day of June, 1864, at 7 o'clock P. M. The Stock is now in the Secretary's hands, ready to be issued to all parties entitled to the same.

D. S. CUTTER, Secretary. J. R. TOBIN, President.
San Francisco, May 20, 1864. 21-4t

Assessments.

Baltimore Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held May 30th, 1864, an assessment (No. 2) of seventy-five cents per share was duly levied, payable in U. S. coin, to J. Warren Clark, Secretary, 430 Montgomery street, San Francisco, or to H. J. HAWKINS, Treasurer, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 15th day of July, 1864, at the office of the Company, at 2 o'clock P. M., to pay the delinquent assessments and cost of advertising and expenses of sale. By order of the Board of Trustees.

J. WARREN CLARK, Secretary.
Office, No. 430 Montgomery street, No. 5, 3d floor, San Francisco.
San Francisco, June 3, 1864. 23-4t

Gold Rock Gold and Silver Mining Company, Murphy's Camp, Calaveras county, California.

Notice is hereby given that at a Meeting of the Board of Trustees of said Company, held on the 30th day of May, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 2d day of July, 1864, will be advertised on that day, as delinquent, and unless payment shall be made before, will be sold on FRIDAY, the 22 day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale. By order of the Board of Trustees.

EM. FENARD, Secretary.
23-4t Office, 433 Montgomery Street, San Francisco.

Coso Silver Mining Company, Coso District, Tulare County, California.

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 2d day of June, 1864, an Assessment of one dollar per share was levied upon the Capital Stock of said Company, payable immediately, in United States Gold or Silver Coin, to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday the 2d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 16th day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of sale. By order of the Board of Trustees.

D. W. CHAMBERS, Secretary.
23-4t Office, No. 636 Clay street, San Francisco.

Stars and Stripes Copper Mining Company, Rock Creek District, Calaveras county.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 21st day of May, 1864, an assessment of ten cents per share was levied upon the capital stock of said company, payable immediately, in United States Gold Coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on the 21st day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 9th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees. J. J. FINDLEY, Secretary.

23-4t Office, on Rock Creek, Calaveras county, California.

Gertrude Gold and Silver Mining Company, Reese River District, Lander county, Nevada Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 28th day of May, 1864, an Assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable on the 1st day of June, 1864, in United States gold coin, to the Secretary, or to R. T. HILL, Superintendent, at Austin, Nevada Territory.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 2d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 16th day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. F. HUGHES, Secretary.
23-4t No. 305 Montgomery street, San Francisco.

Monarch Gold and Silver Mining Company, Reese River District, Lander County, Nevada Territory.

Notice is hereby given that at a Meeting of the Board of Trustees of said Company, held on the 28th day of May, 1864, an Assessment of 25 cents per Share was levied upon the Capital Stock of said Company, payable on the 1st day of June, 1864, in United States Gold Coin, to the Secretary, or to R. T. HILL, Superintendent, Austin, N. T.

Any Stock upon which said Assessment shall remain unpaid on Saturday, the 2nd day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 16th day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the Sale. By order of the Board of Trustees.

W. F. HUGHES, Secretary.
23-4t Office, No. 305 Montgomery Street, San Francisco.

San Francisco Gold and Silver Mining Co.
Sierra Madre Gold and Silver Mining Company.
Empire Gold and Silver Mining Company, Rock Spring District, San Bernardino county, California.

Notice is hereby given that at a meeting of the Board of Trustees of said companies, held on the 31st day of May, 1864, an assessment of five cents per share was levied upon the capital stock of each of said Companies, payable on the 2d day of June, 1864, in United States gold coin, to the Secretary.

Any stock upon which said assessments shall remain unpaid on Saturday the 2d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 16th day of July, 1864, to pay the delinquent assessments, together with costs of advertising, and expenses of the sale. By order of the Board of Trustees.

G. BOWER, Secretary.
23-4t Office, No. 611 Clay street, San Francisco.

Mr. Jarvis Jewett is our duly authorized advertizing agent and collector in this city.

Henry and Barnard Consolidated Gold, Silver and Copper Mining Company, Arizona Territory.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 2nd day of June, 1864, an Assessment of Twenty (20) cents per share was levied upon the Capital Stock of said Company, payable on the 3d day of June, 1864, in United States Gold Coin, to the Secretary, at his office.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 2nd day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 18th day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the Sale.

On all Certificates of Stock advertised for sale as delinquent, the holders will be charged by the share to pay expenses.

A discount of three per cent. will be deducted on all assessments paid on or before the 11th day of June. By order of the Board of Trustees. I. M. BLOOD, President.

GEO. W. GILDERSLEEVE, Secretary. (23-4t)

Office, 302 Montgomery St., third floor, room 5, San Francisco.

Peaslee & Sparks Gold and Silver Mining Company, Reese River District, Lander county, Nevada Territory.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 28th day of May, 1864, an assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable on the 1st day of June, 1864, in United States gold coin, to the Secretary, or to R. T. Hill, Superintendent, Austin, Nevada Territory.

Any Stock upon which said assessment shall remain unpaid on Saturday, the 2d day of July, 1861, will be advertised on that day as delinqnent, and unless payment shall be made before, will be sold on SATURDAY, the 16th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. F. HUGHES, Secretary.

23-4t Office, No. 305 Montgomery street, San Francisco.

Lady Adams Gold and Silver Mining Company, Reese River District, Lander county, Nevada Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 28th day of May, 1864, an Assessment of 20 cents per share was levied upon the Capital Stock of said Company, payable on the 1st day of June, 1861, in United States gold coin, to the Secretary, or to R. T. Hill, Superintendent, Austin, Nevada Territory.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 2d day of July, 1861, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 16th day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. F. HUGHES, Secretary.

23-4t Office, No. 305 Montgomery street, San Francisco.

Meder Gold and Silver Mining Company, Santa Cruz County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of June, 1864, an Assessment of fifteen (15) cents per share was levied upon the Capital Stock of said Company, payable immediately, in United States Gold Coin, to the Secretary, at the Office of the Company, No. 537 Washington Street.

Any Stock upon which said assessment shall remain unpaid on Saturday the 9th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 25th day of July, 1861, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

MILO CALKIN, Secretary.

23-5t Office, No. 537 Washington street, San Francisco.

Blue Jacket Gold and Silver Mining Company, Devils Gate District, Lyon County, Nevada Territory.

Notice is hereby given, that at a Meeting of the Board of Trustee of said Company, held on the 26th day of May, 1864, an Assessment of 25 cents per Share was levied upon the Capital Stock of said Company, payable on the 30th day of May, 1864, in United States Gold Coin, to the Secretary.

Any Stock upon which said Assessment shall remain unpaid on Saturday, the 25 day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 9th day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the Sale. By order of the Board of Trustees.

WM. A. RUST, Secretary.

22-5t Office, 212 California street, San Francisco.

Star of Nevada, Gold and Silver Mining Company, Reese River District, Lander County, N. T.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 31st day of May 1864, an assessment, of 50 cents per share was levied upon the capital stock of said Company, payable on the 1st day of June, 1864, in U S. Gold Coin, to the Secretary, at the Office of the Company, or to Ed. Muller, superintendent at Austin, N. T.

Any Stock upon which said assessment shall remain unpaid on Saturday, the 2nd day of July, 1861, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 16th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees. JOHN DUNN, Sec'y.

23-4t Office, 723 Montgomery Street, San Francisco.

Mount Eden Mining Company (Owco Ledge) Gold Hill District, Nevada Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Mount Eden Mining Company, held on the 31st day of May, 1864, an Assessment of fifty cents per share, was levied upon the Capital Stock of said Company, payable on the 4th day of June, 1864, in United States gold coin to the Secretary, or to Frank Morgan, Superintendent at the mine.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 2nd day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 18th day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

H. B. CONGDON, Secretary.

23-4t Office, No. 620 Washington Street, (Room 3) San Francisco.

San Lorenzo Gold and Silver Mining Company, Santa Cruz County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 24th day of May, 1864, an assessment of fifty (50) cents per share was levied upon the Capital stock of said Company, payable on the 25th day of May, 1864, in United States Gold Coin, to the Secretary, at the office of the Company, or to Daniel S. Flagg, Superintendent at the mine.

Any stock upon which said assessment shall remain unpaid on SATURDAY, the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 11th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

MILO CALKIN, Secretary.

Office, No. 537 Washington Street, San Francisco. 22-4t

Blue Dragon Mining Company, Inyo District, Tulare County California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 23d day of May, 1864, an assessment of twenty cents per share was levied upon the Capital Stock of said Company, payable immediately, in Gold Coin of the United States, to the Secretary, at the office of the Company, 723 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the Twenty-Fifth day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 9th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale.

N. G. FRENCH, Secretary.

22-4t Office, 723 Montgomery street, San Francisco.

Brewer Gold and Silver Mining Company, Silver King District, Amador county, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 23d day of May, 1864, an Assessment of fifteen cents per share was levied upon all the assessable Capital Stock of said Company, payable on the 21st day of June, A. D., 1864, in United States gold coin, to the Secretary, F. A. Brewer, No. 40 Montgomery Block, San Francisco, Cal.

Any stock upon which said Assessment shall remain unpaid on 25th day of June, 1861, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 7th day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale. By order of the Board of Trustees. F. A. BREWER, Sec'y

22-4t Office, No. 40. Montgomery Block, San Francisco, Cal.

Potomac Gold and Silver Mining Company, Reese River District, Lander county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held May 23d, 1864, an assessment of one ($1) dollar per share was levied upon the Capital Stock of said Company, payable immediately, in United States Gold Coin, to the Secretary, at the office of the Company, or to F. A. Miller, Superintendent at Austin, N. T.

Any Stock upon which said assessment shall remain unpaid on the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 11th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale.

GEO. A. BALL, Sec'y.

22-4t Office, 509 Clay Street, San Francisco.

Minochaha Gold and Silver Mining Company, Reese River District, Lander County, Nevada Territory.

Notice is hereby given that at a meeting of the Board of Trustees of said Company held on the 22nd day of March, 1864, an assessment of Twenty five cents per share was levied upon the Capital Stock, of Said Company, payable in Gold Coin of the United States, to the Secretary, No. 321 Front street, San Francisco, or to Samuel Donnelly, Superintendent of the Company at Austin, N. T. By order of the Board of Trustees. F. M. TRUWORTHY, Secretary.

20-5t* Office, No. 321 Front Street, San Francisco.

Ophir of the Colorado Silver Mining Company, El Dorado Canon, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of May, 1864, an Assessment of two dollars per share was levied upon the Capital Stock of said Company, payable on the 17th day of May, 1864, in United States gold coin to the Secretary.

Any stock upon which said Assessment shall remain unpaid on the 18th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. T. A. MUDGE, Secretary.

21-4t Office, 528 Clay street, San Francisco.

Joe Douglass Gold and Silver Mining Company, Reese River District, Lander county, Nevada Territory.

Notice is hereby given, that, at a meeting of the Board of Trustees of said Company, held on the 18th day of May, 1864, an assessment of 50 cents per share was levied upon the capital stock of said Company, payable on the 19th day of May, 1864, in United States gold coin, to the Secretary, or to the Superintendent, Joseph White, at Austin, N. T.

Any stock upon which said assessment shall remain unpaid on Saturday, the 18th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 2d day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

ROBERT T. POLK, Secretary.

21-4t Office, No. 35 Government House, San Francisco.

Great Central Tunnel Company, Virginia City, Nevada Territory.

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 17th day of May, 1864, an assessment of forty cents per share was levied upon the Capital Stock of said Company, payable immediately, in United States gold coin, to A. C. Nichols, No. 326 Clay street, San Francisco, or Melville Kelsey, Virginia City.

Any Stock upon which said assessment shall remain unpaid on Saturday, the 18th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 6th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

21-4t MELVILLE KELSEY, Sec'y., Pro. tem.

Office of the Ootnrin and Webster Gold and Silver Mining Companies, Location of Works, Mootgomery District, Mono County, California.

Notice is hereby given that at a meeting of the Board of Trustees of said Companies, held on the 26th day of May, 1864, an assessment of twenty-five cents per share was levied upon the assessable stock of said Companies, payable immediately, in United States gold coin, to the Secretary, at the office of said Companies.

Any stock upon which said Assessment shall remain unpaid on the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 9th day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. H. R. SHELDON, Secretary.

Office, N. E. corner Montgomery and Pine Sts., Room, No. 2, 3rd floor. Office hours from 12½ M. to 2 P. M. 22-4t

Suerte Copper Mining Company, Carman Island.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held May 24th, 1864, an assessment of twenty-five cents per share, was duly levied upon the Capital Stock of said company, payable May 25th, 1864, in U. S. Gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 11th day of July, 1864, at 12 o'clock M. to pay the delinquent assessment and costs of advertising and expenses of sale. By order of the board of Trustees. ISAAC TABOR, Sec'y.

22-4t Room 7, No. 502 Montgomery Street, San Francisco.

Keokuk Gold, Silver and Copper Mining Company, Clayton Mining District, Contra Costa County, California,

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 26th day of May, 1864, an Assessment of Ten (10) cents per Share was levied upon the Capital Stock of said Company, payable immediately, in United States Gold Coin, to the Secretary, at the office of the Company, No. 322 Front street or to J. W. Cassiday, at the mine.

Any Stock upon which said Assessment shall remain unpaid on Saturday, the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 13th day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the Sale. By order of the Board of Trustees.

A. B. WINEGAR, Secretary.

22-4t Office, 322, Front street, San Francisco.

Mechanics Gold, Silver and Copper Mining Company, Clayton Mining District, Contra Costa County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 26th day of May, 1864, an Assessment of five (5) cents per share was levied upon the capital stock of said Company, payable immediately, in United States Gold Coin, to the Secretary, at the office of the Company, or to J. W. Cassidy, Superintendent at the mine.

Any stock upon which said Assessment shall remain unpaid on Saturday the 25th day of June, 1864, will be advertised on that day as delinquent, and, unless payment shall be made before, will be sold on Wednesday, the 13th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

A. B. WINEGAR, Sec'y.

22-4t Office, No 322, Front Street, San Francisco.

Siskiyou Lion Mining Company, Siskiyou County, California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 26th day of May. 1864, an Assessment of Fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, to the Secretary, in U. S. Gold Coin.

Any stock upon which assessment shall remain unpaid on Saturday, June 25th, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, July 12th, 1864, at 12 o'clock M., to pay the delinquent assessment, together with costs of ndvertising and expenses of sale. By order of the Board of Trustees.

JAS. C. NORRIS, Secretary.

Office, No. 430 Jackson street.

San Francisco, May 27th, 1864. 22-4t

Augusta Gold and Silver Mining Company, Augusta District, Lander county, N. T. Office, 406 Front street, San Francisco, May 20th, 1864.

Notice is hereby given, that at a meeting of the Trustees of said Company, held November 2d, 1863, an Assessment, No. 1, of twelve and one-half (12½) cents per share was levied upon the Capital Stock of said Company. Also at a meeting of the Trustees of said Company, held March 9th, 1864, an Assessment, No. 2, of twelve and one-half (12½) cents per share was levied upon the Capital Stock of said Company. Both Assessments, No. 1 and No. 2, payable immediately in United States gold coin, to the Treasurer, at the office of said Company, or to John Moffet, Superintendent of said Company, at the mine, in Nevada Territory.

Any stock upon which said Assessments shall remain unpaid on the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 25th day of July, 1864, to pay the delinquent Assessments, together with costs of advertising and expenses of sale.

21-4t. JOHN SHAW, President.

Sisters Gold and Silver Mining Company, Augusta District, Lander county, N. T. Office, 406 Front street, San Francisco, May 20th, 1864.

Notice is hereby given, that at a meeting of the Trustees of said Company, held October 17th, 1863, an Assessment, No. 1, of fifteen (15) cents per share was levied upon the Capital Stock of said Company. Also at a meeting of the Trustees of said Company, held March 9th, 1864, an Assessment, No 2, of fifteen (15) cents per share was levied upon the Capital Stock of said Company. Both Assessments, No. 1 and No. 2, payable immediately, in United States gold coin to the Treasurer of the office of said Company, or to John Moffet, Superintendent, at the mine, in Nevada Territory.

Any stock upon which said Assessments shall remain unpaid on the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 25th day of July, 1864, to pay the delinquent Assessments, together with costs of advertising and expenses of sale.

21-4t J. FRANK MILLER, President.

Kelsey Gold and Silver Mining Company, El Dorado

County, Cal. Office, No. 605 Sacramento street, San Francisco, May 13th, 1864.

Notice is hereby given, that in accordance with the laws of the State of California, the By-laws of the Kelsey G. & S. M. Co., and the order of the Board of Trustees this day duly made and entered, there will be sold, at public auction, on Mouday, June 13th, 1864 at, 11 o'clock, A. M., by Messrs. Cobb & Sinton, at their auction rooms, No. 406 Montgomery street, in the city of San Francisco, so much of the Capital Stock of said Company, standing in the names of the following persons as may be necessary to pay all Assessments now due by said parties, together with the expenses of advertising and sale, unless the same shall have been previously paid.

No. of Cert's.	Names.	No. Sh's.	No. Ass't.	Am't.
78, 79, 80, 81, 82	A Fulk	90	5 & 6	$22 50
89, 90, 92 to 105	Noble Lovely	275	5 & 8	68 75
407,138,139,140,141	F Wolfe	265	8	39 75
180	Sophia Steiger	25	5 & 8	6 25
191,193,194,195, 426, 427	Ole Bergson	175	6	26 25
321	C H Taft	75	6	11 25
219	Joseph Whittle	10	6	1 50
233, 4, 5, 7, 8, 9, 240,1,2,3,4,5,6,7				
9,250,438,439	John L Yates Jr	330	6	49 50
196,7,8 9,200,3,4, 5,8,9,12	A E Shannon	240	8	36 00
303	C H Killey	20	8	3 00
304	B Slocumb	5	8	75
306	Lehman Blum	5	5 & 6	1 25
308	E Maitre	25	6	3 75
309	Gustave Israel	10	5 & 6	2 50
310	E Cleaves	10	5 & 8	2 50
315	F W Bach	5	5 & 6	1 25
317	John Ducker	50	6	9 00
324	C P Williams	100	6	15 00
327, 339, 357, 364	John C Hall	65	8	9 75
328	Alice Moore	5	5 & 6	1 25
348	J Ford	20	5 & 6	5 00
264	Jane Jnmes	10	8	1 50
399	Andrew Wilson	15	8	2 25
406	Mrs Susan Sweetzer	10	6	1 50
420, 421	E Worth	50	8	7 50
435	Henry E Brooks	10	6	1 50
311	W Van Housen	5	8	75
164	W A Frey	10	6	1 50
273. 276, 280, 284				
285, 286, 287, 288	B F Butler	85	8	12 75
22, 145	R D Scofield	17	5 & 8	4 25
Not issued	C J West	15	4, 5 & 6	5 25
294, 297	A de Castilla	40	4, 5 & 8	14 00

By order of the Board of Trustees.

20 4t S. C. GARDNER, Secretary.

Wm. Mitchel Gold and Silver Mining Company, Silver Mountain, Amador county, California.

Notice.—There is delinquent upon the following described stock, on account of Assessments levied on the 16th day of February and the 29th day of March, 1864, the several amounts set opposite the names of the respective shareholders, as follows, to wit:

Names.	No. Certif.	No. Shares	Amt.
John L. Bowen	34	5	$5 00
S. C. Blake	53	15	15 00
S. C. Blake	55	5	5 00
Phillip Brady	61	5	5 00
N. Castle	56	10	10 00
N. Castle	97	5	6 00
W. Hollis	78	10	10 00
Henry Kline	69	10	10 00
Mrs. Julia Kenney	50	5	2 50
P. McGee	66	5	5 00
W. J. Moss	63	5	5 00
Wm. Walsh	95	25	25 00
Mrs. M. Wise	33	20	20 00

And in accordance with law, and an order of the Board of Trustees, made on the 4th day of May, last, so many shares of each parcel of said stock as may be necessary, will be sold at the office of the Secretary, on Wednesday, the 15th day of June, 1864, at 12 o'clock, M., to pay said delinquent Assessments thereon, together with costs of advertising and expenses of the sale.

A. O. WOOD, Secretary.

20-4t 240 Montgomery street, No. 4, 2d floor.

Tornado Gold and Silver Mining Company, Colorado

District, El Dorado Canon, Territory of Arizona. Office 620 Washington street, San Francisco.

Notice is hereby given, that, in accordance with the laws of the State of California, and in pursuance of an order of the Board of Trustees of the Tornado Gold and Silver Mining Company, duly made May 4th, A. D. 1864, there will be sold, at Auction, at the office of said Company, on June 13th, 1864, at 12 o'clock M. to the highest bidder, for cash, in U. S. coin, so many shares of the capital stock of this Company, standing in the names of the following parties, as may be necessary to pay Assessments No. 1 and 2, of fifty (50) cents each, and levied by the Board of Trustees, December 14th, 1863, and February 17th, 1864, and also balances and other dues, as specified herewith, together with all charges accruing from advertising and sale, unless all such dues are previously paid to the Secretary.

Names.	No. Certs.	No. Shares.	Amt.
H R Covey	6	25	$25 00
H R Covey	7	25	25 00
H R Covey	8	25	25 00
H R Covey	9	25	25 00
H R Covey	10	25	25 00
H R Covey	11	25	25 00
H R Covey	12	25	25 00
H R Covey	13	25	25 00
P J Gifford	not issued	200	200
C Hamilton	Amt due on 288		144 0

20-4t RODNEY CLARK Secretary

Agamemnon Gold and Silver Mining Company.

Location, Inyo District, Tulare County, California.

Notice.—There is delinquent upon the following described stock on account of assessments of twenty-five cents per share duly levied by order of the Board of Trustees of the above named Company, on the 30th day of October 1863, the several amounts opposite the names of respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amt.
Allen Caswell	1	10	$2 50
Allen Caswell	158	70	17 50
Allen Caswell	not issued	1	25
D. C. Norcross	not issued	19	4 75
P. M. Randall	not issued	29	7 25

And in accordance with law, and an orderof the Board of Trustees made on the 24th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on Wednesday, July 6th, 1864, at 12 o'clock, M., of said day, to pay said delinquent assessments, together with the costs of advertising and expenses of the sale.

J. F. MILLER, Secretary.

Office, No. 416, Washington street, San Francisco. 22-4t

Adelaide Consolidated Silver Mining Company,

Colorado District, El Dorado Canon, Territory of Arizona. Office, 620, Washington street San Francisco.

Notice is hereby given that in accordance with the laws of the State of California, and in pursuance of an order of the Board of Trustees of the Adelaide Consolidated Silver Mining Company, duly made, May 23d 1864, there will be sold at auction at the office of said company, on the 27th day of June 1864, at 2 o'clock, P. M., to the highest bidder for cash in U. S. coin, so many shares of the capital stock of the company standing in the names of the following parties, as may be necessary to pay assessment No. 2 and 3 of fifty cents each, and levied by the Board of Trustees, August 27th, 1863, and December 12th, 1863, and, also, balances and other dues as specified herewith, together with all charges accruing from advertising and sale, unless all such dues are previously paid to the Secretary,

Names	Ass't.	No. Certif.	Shares.	Amt.
F A Burch,	2 and 3	26	15	$15 00
F A Burch,	2 and 3	33	7½	7 50
F A Burch,	2 and 3	35	50	50 00
F A Burch,	2 and 3	38	25	25 00
F A Burch,	2 and 3	163	12	12 00
J S Fitzgerald,	2 and 3	137	50	50 00
J S Fitzgerald,	2 and 3	140	20	20 00
J S Fitzgerald,	2 and 3	141	20	20 00
J S Fitzgerald,	2 and 3	142	20	20 00
J S Fitzgerald	2 and 3	143	20	20 00
J S Fitzgerald,	2 and 3	144	10	10 00
J S Fitzgerald,	2 and 3	145	10	10 00
J S Fitzgerald,	2 and 3	146	10	10 00
S Fitzgerald,	2 and 3	148	50	50 00
S Fitzgerald,	2 and 3	149	50	50 00
S Fitzgerald,	2 and 3	150	20	20 00
S Fitzgerald,	2 and 3	151	20	20 00
S Fitzgerald,	2 and 3	152	20	20 00
S Fitzgerald,	2 and 3	153	20	20 00
S Fitzgerald,	2 and 3	181	4	4 00
S Fitzgerald,	2 and 3	155	10	10 00
S Fitzgerald,	3	158	10	5 00
Charles Hamilton,	2 and 3	89	50	50 00
Charles Hamilton,	2 and 3	94	10	10 00
Charles Hamilton,	2 and 3	08	20	20 00
Charles Hamilton,	2 and 3	227	5	5 00
Cbarles Hamilton,	2 and 3	217	5	5 00
Cbarles Hamilton,	2 and 3	218	5	5 00
Charles Hamilton,	2 and 3	219	10	10 00
Charles Hamilton,	2 and 3	220	10	10 00
Charles Hamilton,	2 and 3	222	10	10 00
L B Wooster,	3	113	5	5 00
Joseph Eustis,	2 and 3	196	20	20 00
David Temple,	2 and 3	215	15	15 00
M D Fairchild,	3	184	13	7 50
John Hume,	2 and 3	64	12½	12 50
Frederic Hall,	3	53	20	10 00
R B Wilson,	3	188	10	5 00

22t4 RODNEY CLARK, Sec'y.

Gobernadora Silver Mining Company, San Antonio District, Lower California.

Notice.—There is delinquent, upon the following described stock, on account of Assessment levied on the 28th day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amt
John Brazer,	27, 41. 42—5 each	15	$15
John Brazer,	40, 43, 44, 90—10 each	40	40
John Brnzer,	45	25	25
John Brazer,	51	30	30
J C Beideman,	100	30	30
Mary A Behan,	228	5	5
Richard Carnell,	181	15	15
A de Castillo,	294	5	5
T H Downing,	119	30	30
E R Hawley,	269, 270—25 each	50	50
Hopps & MacAhee	284	40	40
A H Jordan,	286, 287—25 each	50	50
W H Knapp,	70, 71, 98—10 each	30	30
W H Knapp,	73, 76—15 each	30	30
W H Knapp,	74	20	20
W H Knapp,	77	25	25
H Kilham.	235. 236—10 each	20	20
H Kilham, 237. 238, 239, 240. 241, 242—5 each		30	30
R G McClellan,	20, 21, 22, 23—50 each	200	200
R G McClellan,	24	20	20
R G McClellan,	220, 331—25 each	50	50
R G McClellan,	299	10	10
R G McClellan,	300, 301—5 each	10	10
W E Mayhew.	111	20	20
harles McDonald,	183	5	5
Charles McDonald,	224	15	15
Chas F Nolte,	245	20	20
J W Sprague,	75, 79—60 each	120	120

And in accordance with law, and an order of the Board of Trustees made on the 28th day of April, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on the 11th day of June, 1864, at the hour of 12 o'clock, M., of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

C. W. HAYDEN, Secretary.

22-2t Office, 625 Clay street, San Francisco

St. Lawrence Gold and Silver Mining Company.

Location, Inyo District, Tulare County, California.

Notice.—There is delinquent upon the following described stock on account of assessments duly levied by order of the Board of Trustees of the above named Company, on the 30th day of October 1863, the several amounts set opposite the names of respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amt.
Ames Arnold	150	20	$10 00
Martin J. Burk	182	19	9 50
Allen Caswell	168	61 Bal due	19 75
A. Holbub	26	39	19 50
B. McCarty	188	39	19 50
Geo. W. Paget	8	5	2 50
D. C. Norcross	142	6	3 00
D C. Norcross	not issued	20	10 00
P J. O'Connor	140	39	19 50
Chas. Rice	48	2	1 00
Susan L. Lott	49	5	2 50
H. P. Williams	151	19	9 50
Mary T. Rice	99	2	1 00
Elenor J. Lott	101	9	4 50
Elenor J. Lott	102	2	1 00
H. S. Wheeler	87	10	5 00
J. W. O'Brien	120	1	50

And in accordance with law, and an order of the Board of Trustees made on the 24th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on Wednesday, July 6th, 1864, at 12 o'clock M., of said day, to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

J. F. MILLER, Secretary.

Office, No. 416 Washington street, San Francisco.

Palmyra Consolidated Gold and Silver Mining Company, Palmyra District, Lyon county, N. T.—Office 625 Clay street, San Francisco, California.

Notice is hereby given, that, in accordance with an order duly made by the Board of Trustees of the above named Company, there will be sold, at Public Auction, at the office of the Company, on MONDAY, the 13th day of June, 1864, at 12 o'clock M., to the highest bidder, for cash, payable in United States coin, so many shares of the capital stock of said Company, standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay the assessment now due thereon, together with cost of advertising and all accruing charges, unless the same be previously paid:

Names.	No. Shs.	Amt.	Names.	No. Shs.	Amt.
O A Briar	500	$125 00	H H Linvill	10	$2 50
Sarah A Broder	10	2 50	N O Mitchell	25	6 25
J W Belden	25	6 25	John C Morrill	25	6 25
Charles Cook	5	1 25	N Nasoa	119	29 75
I Casper	10	2 50	H J Paine	50	12 50
George Cofran	590	147 5	A C Fewer	5	1 25
J H Dupalx	5	1 25	George W Swain	10	2 50
Julius Ehrenburg	10	2 50	A Staples	25	6 25
P Fechan	10	2 50	J Silversmith	10	2 50
H B Griffin	5	1 25	E U Sparkett	10	2 50
L D Gavitt	30	7 50	T A Talbert	400	100 00
H M Goodman	50	12 50	A A Van Voorhis	5	1 25
E W Harrison	5	1 25	R J Van Voorhis	5	1 25
Charles Hadsell	100	25 00	M Zejarkowsky	10	2 50
M J Henly	25	6 25	L Whipple	200	50 00
Charles Hirsfeld	5	1 25	S Wood	345	86 25
J Humphreys	235	73 75	W Wadsworth	50	12 50
D Kendrick	135	33 75	B C Whitman	100	25 00
A Konitzke	5	1 25	John T Welcher	500	125 00
James Kennedy	25	6 25	W Langerman	550	137 50

By order of the Board of Trustees.

20-5t C. W. HAYDEN, Secretary.

La Favorita Mining Company, Moctezuma District

Sonora, Mexico.

Notice.—There is delinquent upon the following described stock on account of assessments levied on the 3d day of May, 1864, and assessments levied previous thereto, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. of temporary Certificates.	No. Shares.	Amt.
J B Neustadter,	8	5	$17 50
J B Neustadter,	not issued	35	122 50
Joseph H Frank	6	5	17 50
Joseph H Frank,	not issued	35	122 50
Henri J Hellman,	50	10	27 50
Henri J Hellman,	51	5	13 75
Henri J Hellman,	52	5	13 75
Henri J Hellman.	53	5	13 75
Henri J Hellman,	54	5	13 75
Henri J Hellman,	55	5	13 75
Henri J Hellman,	not issued	45	123 75
N Del Blanco,	not issued	80	140 00

And in accordance with law, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom

Jerome Rice & Co., Auctioneers, No. 327 Montgomery street, San Francisco, on SATURDAY, the 18th day of June, 1864, at 11 o'clock A. M. of said day, to pay said delinquent assessments thereon, together with costs of advertising and expenses of sale.

ELKAN WASSERMANN, Secretary.

Office, No. 429 Sacramento street, San Francisco.

San Francisco, June 4th, 1864. 23-3t

Great Western Gold and Silver Mining Company.

Notice is hereby given, that there are delinquent upon the following described stock, on account of assessment No. one (1) levied Nov. 17th, 1863, and assessment No. two (2) levied March 17th, 1864 the several amounts set opposite the names of the respective share holders, as follows:

Names.	No. Certif.	No. Asst.	No. Shs.	Am't
E. D. Spencer	32	1 & 2	10	$9 00
E. D. Spencer	no cer	1 & 2	140	126 00
James Collins	31 & 51	1 & 2	35	31 50
James Collins	no cer	1 & 2	42	38 25
M. P. Holmes	63, 64, 65	1 & 2	25	22 50
C. B. Genung	no cer	1 & 2	150	135 00
W. R. Stearns	no cer	1 & 2	150	135 00
E. D. Merriam	55, 56, 57, 58, 59, 66	1 & 2	90	81 00
J. W. Beauchamp	no cer	1 & 2	150	135 00
E. Minturn	no cer	1 & 2	150	135 00
M. H. Kimball	no cer	1 & 2	150	135 00
J. P. Davidson	no cer	1 & 2	150	135 00
J. R. Hughes	49	2	150	37 50
E. G. Baker	70, 71, 72	2	15	3 75
John Scott	28	2	3	75

And in accordance with law and an order of the Board of Trutees made on the 20th day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, on the 29th day of June 1864, at the hour of 12 o'clock M, of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

BROCK JOHNSON, Secretary.

Office, No. 28 Government House, corner Washington and Sansome Street, San Francisco. 22-5t

Mountain Mary Gold and Silver Mining Company, Silver Mountain, Alpine county, Cal.

Notice—There are delinquent upon the following described stock, on account of Assessment levied on the 23d day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:—

Names.	No. Certificate.	No. Shares.	Amt.
Goodell, C	not issued	250	$62 50
Haine, Samuel	not issued	100	25 00
Osborn, Charles	not issued	50	12 50
Skinner, M. B	not issued	240	60 00
Sykes, J. H	not issued	125	31 25
Sheldon, Mary A	not issued	125	31 25
Wright, J. O	not issued	25	6 25

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of April, 1864, so many shares of said stock as may be necessary, will be sold, at the office of the Company, on the 16th day of June, 1864, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

J. WARREN CLARK, Secretary.

Office, No. 430 Montgomery street, Room No. 5, 3d floor, San Francisco. 22-2t

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Cortez Gold and Silver Mining Company, Cortez District, Nevada Territory.

NOTICE.—There are delinquent, upon the following described Stock, on account of Assessment levied on the 27th day of April, 1864, the several amounts set opposite the names of the respective Share holders, as follows:

Names.	No. Certificates.	No. Shares.	Amt.
Blasdel, H G	240	50	$125
Booth, L A	45	100	250
Booth, L A	46	100	250
Booth, L A	47	50	125
Booth, L A	264	50	125
Ball, N A H	66	20	50
Ball, N A H	67	20	50
Ball, N A H	68	20	50
Ball, N A H	69	20	50
Ball, N A H	70	20	50
Ball, N A H	71	10	25
Ball, N A H	72	10	25
Ball, N A H	73	5	12 50
Bee, A W	192	100	250
Bee, A W	193	100	250
Broughton, Alice W	22	2	5
Broughton, Emma C	23	2	5
Blaku, Wm P	280	20	50
Blake, Wm P	281	20	50
Blake, Wm P	282	20	50
Blake, Wm P	283	20	50
Blake, Wm P	284	20	50
Collins, John A	253	100	250
Collins, John A	254	25	62 50
Collins, John A	255	25	62 50
Collins, John A	256	17	42 50
Currie, Eliza M	117	10	25
Currie, Eliza M	118	10	25
Currie Eliza M	119	5	12 50
Currie, Eliza M	120	5	12 50
Currie, Eliza M	121	5	12 50
Clary, W H	265	25	62 50
Durning, Charles	179	5	12 50
Durning, Charles	180	5	12 50
Durning, Charles	181	5	12 50
Durning, Charles	182	5	12 50
Durning, Charles	293	130	325
Doling, P F	88	50	125
Day, H H	94	50	125
Earl, E M	95	25	62 50
Earl, E M	96	50	125
Earl, E M	97	100	250
Earl, E M	98	200	500
Eastland, Joseph G	24	25	62 50
Farrell, H	30	125	312 50
Farrell, H	31	125	312 50
Farwell, W B	115	50	125
Ferris, M J	210	25	62 50
Ferris, M J	211	25	62 50
Ferris, M J	212	25	62 50
Ferris, M J	213	25	62 50
Ferris, M J	214	25	62 50
Garrison, W R	123	288	720
Garnett L A	290	166	415
Gordon, John	21	25	62 50
Gordon, John	270	25	62 50
Gordon, John	271	25	62 50
Howard, B C	133	5	12 50
Hathaway B W	6	62	156
Hathaway B W	7	2	5
Ireland, L F	32	25	62 50
Ingols, N L	262	25	62 50
Jones, E J Mrs.	8	25	62 50
Jones, E J Mrs.	261	25	62 50
Jones, E J Mrs,	259	50	125
Jones, Rowland	136	13	32 50
Jones, Rowland	225	6	15
Jackson, E	237	5	12 50
King, S T	140	10	25
King, S T	141	10	25
King, S T	142	10	25
King, S T	274	50	125
King, S T	275	25	62 50
King, S T	276	25	62 50
Lebmann, Christian	100	5	12 50
Leavitt, John	50	50	125
Leavitt, John	201	50	125
Leavitt, John	202	50	125
Leavitt, John	203	25	62 50
Leavitt, John	204	25	62 50
Leavitt, John	205	25	62 50
Leavitt, John	206	25	62 50
Leonard, E W	277	25	62 50
Merrill, I M	222	250	625
Merrill, I M	223	50	125
Merrill, I M	224	31	77 50
McCurdy, Saml	183	250	500
McCurdy, Saml	184	180	450
Macpherson, A W	289	229	572 50
May Fredrick	130	100	250
Mermond, Louis	194	2	5
Moore, M R Mrs	238	200	500
Moore, J Preston	239	50	125
McGiunis, Terry	285	50	125
McGinn s, Terry	286	50	125
McGinnis, Terry	287	50	125
Perley, D W	25	200	500
Perley, D W	26	200	500
Perley, D W	27	50	125
Perley, D W	28	50	125
Perkins, R F	20	4	10
Passmore	250	20	50
Rand, C W	126	32	80
Steinbring, Chas	195	18	45
Sprott, Henry	226	10	25
Townsend, T B	99	10	25
Taylor, John	172	5	12 50
Taylor, John	249	50	150
Vca ch, A A	150	5	12 50
Veatch, A A	151	5	12 50
Veatch, A A	152	5	12 50
Veatch, A A	153	5	12 50
Veatch, A A	154	5	12 50
Veatch, A A	155	5	12 50
Veatch, A A	156	10	25
Veatch, A A	157	10	25
Veatch, A A	158	10	25
Veatch, A A	159	10	25
Veatch, A A	160	10	25
Veatch, A A	161	10	25
Veatch, A A	162	10	25
Veatch, A A	163	20	50
Veatch, A A	164	20	50
Veatch, A A	165	20	50
Veatch, A A	166	20	50
Veatch, A A	167	20	50
Veatch, A A	168	20	50
Veatch, A A	169	20	50
Veatch, A A	170	20	50
Veatch, Ada	143	5	12 50
Veatch, Ada	144	5	12 50
Veatch, Ada	145	5	12 50
Veatch, Ada	146	5	12 50
Veatch, Ada	147	7	17 50
Veatch, Ada	148	8	20
Vandervoort, J C	268	25	62 50
Vaadervoort, J C	269	25	62 50
Ware, William	29	125	312 50
Wilson, James	54	20	50
Wilson, James	57	20	50
Wilson, James	60	25	62 50
Wilson, James	74	10	25
Wilson, James	78	10	25
Wilson, James	80	10	25
Wil-on, James	81	10	25
Wilson, James	85	5	12 50
Wetherbee, H	12	100	250
Wetherbee, H	18	50	125
Wetherbee, H	14	10	25
Wetherbee, H	15	10	25
Wetherbee, H	10	10	25
Wetherbee, H	18	2	5
Wilson, E	251	50	125
Wilson, E	252	24	60
Wil on, E	267	25	62 50
Wilson, Thomas	233	5	12 50
Wilson, Thomas	234	5	12 50
Walker, David	137	5	12 50
Walker, David	138	4	10

And in accordance with law and an order of the Board of Trustees, made the same date, so many shares of each parcel of said stock as may be necessary, will be sold at the salesroom of Messrs. Jerome Rice & Co., 327 Montgomery Street, San Francisco, on Monday the 20th day of June, 1864, at 12 o'clock M., to pay said delinquent assessments thereon, together with cost of advertising and expenses of the sale.

R. N, VAN BRUNT, Secretary.
23-4t Office, 706 Montgomery street, San Francisco

Itasca Silver Mining Company, Kelly Ledge, Reese River District, Lander county, N. T.

NOTICE.—There is delinquent upon the following described stock on account of assessment levied on the 4th day of May, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certif.	No. Shares.	Amt.
Alexander, J D	52	6¼	bal. $1 56
Alexander, J D	53	30	bal. 7 50
Alexander, J D	54	24	bal. 0 00
Bergson, Ole	95	25	bal. 6 25
Bergson, Ole	96	25	bal. 6 25
Bergson, Ole	97	9	bal. 2 25
Butterfield, R	76	20	bal. 7 00
Butterfield, R	77	20	bal. 5 00
Butterfield, R	78	10	bal. 2 50
Butler, Mary	130	5	bal. 1 25
Conaor, P	not issued	100	bal. 35 00
Clark, H W	152	7¾	bal. 1 95
Carle A J	155	140	bal. 49 00
Carle, A J	166	50	bal. 17 50
Dwyer, David	182	5	bal. 1 25
Forster, Peter B	38	10	bal. 3 50
Forster, Peter B	39	10	bal. 3 50
Forster, Peter B	40	5	bal. 1 75
Forstor Peter B	90	100	bal. 35 00
Forster, Peter B	91	50	bal. 17 50
Forster, Peter B	92	25	bal. 8 75
Gardner, S C	172	10	bal. 2 50
Gardner, S C	173	20	bal. 5 00
Gardner, S C	174	20	bal. 5 00
Gardner, S C	175	20	bal. 5 00
Gardner, S C	176	20	bal. 5 00
Gardner, S C	177	17½	bal. 4 37
Gartner, N	57	100	bal. 35 00
Gartner, N.	58	25	bal. 8 75
Gartner, N	59	25	bal. 8 75
Gartner, N	60	25	bal. 8 75
Gartner, N	61	25	bal. 8 74
Greene, Edmund	121	10	bal. 3 50
Howes, E F	151	10	bal. 2 50
Leouard, E A	not issued	165	66 00
Lovely, Noble	41	100	bal. 35 00
Lovely, Noble	42	50	bal. 17 50
Lovely, Noble	43	50	bal. 17 50
McKenzie, Alex	207	5	bal. 1 25
McCarthy, T	102	25	bal. 8 75
McCarthy, T	103	50	bal. 17 50
McCarthy, T	104	5	bal. 1 75
McCarthy, T	105	10	bal. 3 50
McCarthy, T	106	10	bal. 3 50
McCarthy, T	107	25	bal. 8 75
McCarthy, T	108	25	bal. 8 75
McCarthy, T	109	25	bal. 8 75
McCarthy, T	110	25	bal. 8 75
Morey, W R	194	25	bal. 5 00
Marshall, H H	206	5	bal. 1 25
Pool, Chas W	214	10	bal. 2 50
Peabody, Joseph A	111	25	10 00
Randall, A G	80	50	bal. 17 50
Randall, A G	81	50	bal. 17 50
Randall, A G	82	50	bal. 17 50
Randall, A G	83	25	bal. 8 75
Randall, A G	84	20	bal. 7 00
Saxe, E A	179	10	bal. 2 50
Saxe, E A	193	20	bal 5 00
Thurber, Martin	210	25	bal. 6 25
Tibbey, E S	55	20	bal. 5 00
Tibbey, E S	56	3	bal. 75
Thurber, Alf	not issued	50	20 00
West, C J	not issued	150	60 00
Webb, C C	181	40	bal. 10 00

And in accordance with law, and an order of the Board of Trustees, made on the 4th day of May, 1864, so many shares of each parcel of said Stock as may be necessary, will be sold at the salesroom of Jerome Rice & Co., on Wednesday, the 22d day of June, 1864, at the hour of 11 o'clock, A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

EDW. QUACKENBUSH Sec'y.
Office, No. 11, Government House, corner Sansome and Washington Streets. 23-3t

CAUTION.

The Public are hereby cautioned against purchasing the following named Certificates in the Mount Eden Mining Company of Gold Hill, N. T., as the same were sold according to law for non-payment of assessments on the 31st day of May, 1864, and will not be transfered on the books of the Company.

Names.	Certifs.	Shares.
Bonestell, L. H	59	20
Bonestell, L. H	60	10
Barker, S	28	10
Barker, S	29	10
Barker, S	30	5
Brewer, F. A	93	5
McKinaly, Henry	42	10
McKinaly, Henry	43	10

23-3t H. B. CONGDON, Secretary.

Prima Donna Gold and Silver Mining Company, Devil's Gate District, Nevada Territory.

NOTICE.—There are delinquent upon the following described stock, on account of Assessment (No. 6) levied on the second day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	Certifs.	Shares.	Amt.
Briggs, John M	46	5	$2 50
Barker, S	81	20	10 00
Barker, S	84	5	2 50
Brewer, Mrs. H. W	142	5	2 50
Barker, S. F	153	95	47 50
Brewer, F. A	245	10	5 00
Chester, Henry	219	5	2 50
Harris, E. R	36	5	2 50
Harris, E. R	37	5	2 50
Harvey, Wm	74	5	2 50
Hamilton, Jas. E	83	20	10 00
Heath, Mrs. Jemima	118	5	2 50
Hageman, P	183	5	2 50
Lawton, Irving	220	5	2 50
Lentz, Wm. H	137	5	2 50
Lawrence, W. H	237	5	2 50
Morgan, F	238	20	10 00
Morgan, F	239	20	10 00
Milbury, Jos	96	10	5 00
Milbury, Mrs. Aunie W	97	10	5 00
O'Bergh, John A	92	5	2 50
O'Neill, R. C	194	5	2 50
O'Neill, R. C	197	5	2 50
Page, M. B	38	5	2 50
Pratt, S. K	204	5	2 50
McGinnis, J. M	107	50	25 00
McGinnis, J. M	108	50	25 00
McGinnis, J. M	110	25	12 50
McGinnis, J. M	112	25	12 50
McGinnis, J. M	216	10	5 00
McGinnis, J. M	217	10	5 00
McGinnis, J. M	218	5	2 50
*Rotarmund, John	64	5	5 00
Reilly, Michael	123	40	20 00
Reilly, Michael	128	10	5 00
Rogers, Samuel	228	10	5 00
Rogers, Samuel	240	25	12 50
Scholtz, Charles	182	5	2 50
Tenney, Eugene B	47	10	5 00
Wheeler, Henry	41	5	2 50

*Also delinquent on Assessment No. 5.

And in accordance with law, and an order of the Board of Trustees, made on the 12th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at Public Auction, at the salesroom of John Middleton & Son, No. 400 Montgomery street, San Francisco, on WEDNESDAY, the 15th day of June, 1864, at the hour of 12 o'clock, M., of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale. H. B. CONGDON, Secretary.
20-5t Office No. 620 Washington street, Room 3, San Francisco.

Zenith Gold and Silver Mining Company, Mountain Ranch District, Calaveras county, California.

NOTICE.—There are delinquent upon the following described stock on account of assessment levied on the 3d day of May, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certifs.	No. Shares.	Amt.
J P Bell,	59	12	$6 00
H T Booraem,	6	25	12 50
H T Booraem,	7	25	12 50
H T Booraem,	8	25	12 50
H T Booraem,	9	12	5 00
H T Booraem,	10	10	5 00
J W Fox,	93	8	4 00
H Holzhauer,	35	25	12 50
H Holzhauer,	39	12	6 00
H Holzhauer,	40	10	5 00
J T Hinds,	146	10	5 00
J T Hinds,	194	15	7 50
W S Lyons,	106	5	2 50
W S Lyons,	186	5	2 50
W S Lyons,	187	7	3 50
C Makin,	191	10	5 00
C Makin,	192	10	5 00
J G Perkins,	147	10	5 00
S Wilzinski,	214	5	2 50
H C Partridge,	124	10	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 3d day of May, 1864, so many shares of each parcel of said Stock as may be necessary, will be sold at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on the 18th day of June, 1864, at the hour of 10 o'clock A. M. of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

M. G. ELMORE, Secretary.
23-2t Office, No. 645 Clay street, San Francisco.

Rose Matilda Mining Company, Santa Catalina Island, California.

NOTICE.—There is delinquent upon the following described stock, on account of assessments levied on the 27th day of January, 1864, the several amounts set opposite the names of the respective shareholders, as follows, to wit:

Names.	No. Certf.	No. Shares.	Amt.
C H Tait	not issued	136	$20 40
J D Nicbola	32	106 bal.	0 27
P Ide	75	125 bal.	10 88
I M Merrill	not issued	136	20 40
S C Gardner	not issued	136	20 40
W Diggins	not issued	136 bal.	15 40
Hicks & Carson	55 56 57 58	136 bal.	16 35
Wm J Woodley	105	50 bal.	6 07
Henry Bush	not issued	130	20 40
Henry Bush	First assmt. levied Jan'y 2nd		13 50

And in accordance with law, and an order of the Board of Trustees, made on the 31st day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the office of the Secretary, on Wednesday, the 6th day of July, 1864, at 12, M., to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

A. O. WOOD, Secretary.
23-4t 240 Montgomery street, No. 4, 2d floor.

Grafton Gold & Silver Mining Company, Reese River Mining District, N. T.

☞ GRAFTON OOLD AND SILVER MINING COMPANY, Reese River Mining District, Nevada Territory.—Notice.—There is delinquent upon the following described stock, on account of assessment levied on the 25th April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	Shares.	Amount.
S Redfield, not issued	5	$1 50
J T Lee, "	125	37 50
S W Lee, "	150	45 00
W W Cole, "	90	27 00
John Nickerson, "	10	3 00

And, in accordance with law and an order of the Board of Trustees, made on the 25th day of April, 1864, so many shares of each parcel of said stock, as may be necessary, will be sold at the salesroom of Jerome Rice & Co., 327 Montgomery street, San Francisco, on Wednesday, June 15th, 1864, at eleven o'clock a. m. of said day, together with cost of advertising and expenses of sale.

By order Board of Trustees. D B FRANCIS, Secretary.
509 Clay street.

Business Cards.

T. C. SANBORN & CO.
Stock Brokers,
No. 630, Montgomery Street,.....San Francisco.

OPHIR SILVER MINING STOCK,
GOULD & CURRY MINING STOCK,
CHOLLAR MINING STOCK,
CALIFORNIA STEAM NAVIGATION COMPANY'S STOCK,
☞ BOUGHT AND SOLD. ☜
j1tf.

COMMISSIONER OF DEEDS
For Arizona Territory,
B. W. MUDGE,
16v8-3m No. 528 Clay street, San Francisco.

O. A. CRANE. A. E. CRANE.
CRANE BROS.,
Stock and Exchange Brokers,
No. 614 Montgomery st., Stall No. 6, Stock Exchange, San Francisco.
☞All kinds of Stocks Bought and Sold on Commission. 14

W. O. ANDREWS,
NOTARY PUBLIC,
—AND—
Commissioner of Deeds for Nevada Territory.
Office, Montgomery Block, 630 Montgomery Street,
10v8-2m SAN FRANCISCO.

H. C. KIBBE,
Mining Secretary,
Commissioner for Nevada Territory,
22 Lyceum building, cor. Washington and Montgomery sts.,
10v8-tf SAN FRANCISCO.

WM. S. LYON & CO.,
Stock and Exchange Brokers,
308 Montgomery Street, corner of Pine,
SAN FRANCISCO.
QUARTERMASTER'S WARRANTS BOUGHT. THE HIGHEST Price paid for Legal Tender Notes. Open till 9 P. M. 1-3m

REMOVAL.
J. R. BEARD, STOCK BROKER,
MEMBER SAN FRANCISCO STOCK AND EXCHANGE BOARD,
HAS REMOVED HIS OFFICE TO
5v8-tf No. 707 Montgomery street, Brokers Block.

W. P. DENCKLA. A. L. CHAMBERLIN.
DENCKLA & CHAMBERLIN,
Stock and Exchange Brokers,
S. W. corner of Clay and Montgomery streets,
SAN FRANCISCO.
☞ Deeds, etc., for record in Humboldt County, Nevada Territory, received and forwarded. 1-tf

OTIS V. SAWYER,
NOTARY PUBLIC,
And Commissioner for Nevada Territory.
Office, 608 Montgomery street, San Francisco.
Having resigned my Notarial Commission, I solicit for my late partner, OTIS V. SAWYER, from the community, and particularly from my individual friends, their patronage in all things that require the services of a Notary Public.
23 4t W. W. WIGGINS.

MUTUAL
Life Insurance Company,
—OF NEW YORK—
Capital, : : : : : : : : : $9,750,000.
H. S. HOMANS, Agent for California.

H. S. HOMANS,
NOTARY PUBLIC,
And Commissioner of Deeds for Nevada Territory,
MINING SECRETARY, CONVEYANCER, ETC.,
Northeast corner of Montgomery and Merchant Streets.

THOS. DAVENPORT. W. B. SMITH
DAVENPORT & SMITH,
Mining and General Accountants,
SCRIVENERS, CONVEYANCERS, ETC.
Office, No. 14 Government Block, N. W. corner of Sansome and Washington streets, San Francisco.
REFER BY PERMISSION TO
Donohoe, Ralston & Co, Bankers. | J. C. Sanborn & Co., Brokers.
Sather & Co., Bankers. | Ross, Dempster & Co., Merchants.
John Parrott, Esq., Banker. | Dibblee, Hyde & Co., Merchants.
James J. Robbins, Esq., Broker. | Dickson, DeWolf & Co., Mer'chts

REMOVAL.
THE OFFICE OF DEETKEN & CO'S METALLURGICAL WORKS HAVE BEEN REMOVED FROM 605 to 315 MONTGOMERY ST., SAN FRANCISCO.
16 A. MARCUS, Secretary.

Owen's River Canal Company.
FOR SALE, FOR ACCOUNT OF THE COMPANY, 7,000 SHARES of the above stock, at $1 per share. It is confidently presented to the public as the best investment, for the price, now offered this market.
Office of the Company No. 328 Montgomery street. 1tf

W. R. MAURICE,
Stock Broker, Real Estate Agent
And Mining Secretary.
Office, No. 708 Montgomery Street, San Francisco. Reference—Messrs, PARROTT & Co., Bankers. 8v8.tf

THOMAS HILL,
Member of the S. F. Stock and Exchange (1st) Board.
A. H. MURDOCK,
Member of Stock Exchange.
No. 623 Montgomery Street. Opposite Montgomery Block,
SAN FRANCISCO.

Palmer's Patent
ARTIFICIAL LEG,
Manufactured in Philadelphia, Pa.
JARVIS JEWETT, AGENT.
629 Washington Street, San Francisco, Cal. 10v8-1m

A. C. MORSE,
Mining and Real Estate Agent,
Office, S. W. corner Pine and Silver Sts., Aurora.
HAVING MADE ARRANGEMENTS WITH MINER S. MARTIN, Esq., one of the principal Stock Brokers of San Francisco, I am prepared to BUY and SELL every description of Mining Stocks in Esmeralda District. tf

ARMES & DALLAM,
IMPORTERS AND JOBBERS OF
WOOD AND WILLOW WARE,
Brushes, Twine, Cordage, Etc.,
And Manufacturers of California Pails, Tubs, Brooms, Etc.,
217 and 219 Sacramento St., between Front and Davis,
2-tf SAN FRANCISCO.

NATHANIEL GRAY,
General Furnishing Undertaker,
641 Sacramento St., corner of Webb, San Francisco. 1

PHILLIPS & CO.,
(Successors to W. H. Baxter & Co.,)
—MANUFACTURERS AND IMPORTERS OF—
HARNESS AND SADDLES,
BRIDLES, WHIPS, COLLARS, SADDLERY WARE, ETC.,
407 Battery St., between Clay and Merchant, San Francisco.
N. B.—All kinds of Work made to order and Warranted. Jobbing done with neatness and dispatch, and on the most reasonable terms.
2-tf

EDWARD BOSQUI & CO.,
517 Clay Street, San Francisco,
Book-Binders, Paper-Rulers,
And Blank Book Manufacturers.
Blanks of all kinds printed and ruled to any desired pattern. [2-tf

GEO. B. HITCHCOCK & CO.,
Counting-House Stationers,
HAVE ALWAYS IN STORE A WELL-SELECTED STOCK OF
American and Foreign Stationery.
Blank Books of all kinds, manufactured to any desired pattern, and at the shortest notice. Mining Companies supplied in the best manner, and at reasonable rates.
GEO. B. HITCHCOCK & CO.,
2-1m 413 and 415 Sansome St., cor. Commercial, S. F.

C. BEACH,
—IMPORTER AND DEALER IN—
Juvenile and School Books, Stationery,
Kastel's California Gold and Silver Processes of Extraction, Etc., Etc.
No. 34 Montgomery street (opposite the Lick House),
4v8-3m SAN FRANCISCO.

D. NORCROSS,
MILITARY GOODS OF ALL DESCRIPTIONS. NAVY TRIMMINGS AND EMBROIDERIES. REGALIA FOR ALL ORDERS.
aug17-tf Masonic Temple, No. 6, Post Street.

BUSWELL & CO.,
Book-Binders, Paper-Rulers,
And Blank-Book Manufacturers.
No. 509 Clay street and 508 Commercial street, between Montgomery
4v8-tf and Sansome, San Francisco.

Coal Creek Coal Mining Company.
Located near Geyserville, Sonoma County, California, containing 320 acres.
CAPITAL STOCK,.....$120,000
600 Shares.....$200 Per Share.
Office of the Company, Room, 18 Phœnix Building, corner of Sansome and Jackson streets, San Francisco.
A. P. McCARTY.....President.
D. S. CUTTER,.....Secretary & Treasurer.
TRUSTEES:
JOHN J. HUCKS,.....San Francisco.
GEO. H. BAKER,.....San Francisco.
P. T. ARCHAMBOU,.....Geyserville.
19-3m

The Daily Evening Express, at Victoria, Vancouver Island is published by Messrs Wallace, Allen & Hardynge. Terms of subscription: One year, by mail, $10; six months, $6. It contains the late, Mining, Commercial, and General News, up to the hour of going to press. Being the ONLY EVENING PAPER published in Victoria, and having a circulation equal to any other Journal in the Colony, it will be found an excellent medium to enable advertisers to bring their notices before the Public. W. H. TOBEY,
Agent, Government House, San Francisco. 15-tf

L. B. FINE. JAMES A. OWENS.
OWENS & FINE,
Mining Secretaries, Real Estate and
General Agents,
WILL ATTEND TO DRAWING MINING STOCKS, PAYING ASSESSMENTS, BUYING AND SELLING STOCK LOCATED
IN ALPINE COUNTY.
OFFICE.—Mammoth Hotel, Main Street, between Second and Third, Silver Mountain. 20-3m

W. E. ROBINSON. J. R. MEGARRIGLE.
ROBINSON & CO.,
BROKERS,
Conveyancers and Mining Agents,
536 Washington Street, between Montgomery & Sansome,
No. 7 & 8 third floor, San Francisco. 20-1m

RICHARD S. CLARK,
MINING SECRETARY,
Accountant and Copyist.
Office, No. 610 Merchant street.
N. B.—Mr. Clark has also a commodious room, to rent for annual and Special Meetings of Companies at any hour of the day or evening. 19-3m

H. S. Sanders & Co.,
Stock Brokers,
Members of the Stock & Exchange (1st) Board and of the Pacific Board of Brokers.
No. 546 Washington street, San Francisco. 12-m

HENRY SCHMIEDELL,
(Member of the San Francisco Stock and Exchange Board,)
Stock Broker & Real Estate Agent,
Office, 705 Montgomery Street, San Francisco. 18-m

WARRIN, SMITH & CO.,
Commission Merchants,
—ALSO—
REAL ESTATE, STOCK AND EXCHANGE BROKERS,
Members of the San Francisco Board of Brokers Members of the Pacific Board of Brokers.
No. 618 Merchant Street, (above Montgomery) San Francisco.
☞ MONEY TO LOAN IN SUMS TO SUIT. ☜ 18-tf

GEORGE H. BAKER,
Lithographer & Engraver,
No. 522 Montgomery Street, San Francisco.
MINING STOCK CERTIFICATES LITHOGRAPHED IN THE MOST ARTISTIC STYLE. CALL AND EXAMINE SPECIMENS.
10v8-tf

DESKS AND OFFICE FURNITURE OF ALL
KINDS, FOR SALE BY
JOHN WIGMORE,
No. 423 California St., San Francisco
OFFICE JOBBING, of all kinds, promptly attended to.
j2-tf

FREDERICK MANSELL.
Mechanical & Architectural Draughtsman,
No. 422 California street, corner of Leidsdorff.
Drawings of MODELS made for parties applying for patents at Washington or London. mar23-tf.

JOHN DANIEL,
(SUCCESSOR TO O. GOBI)
MARBLE WORKS,
No. 408 Pine street, bet. Montgomery and Kearny, San Francisco.
Mantels, Monuments, Tombs, Plumbers' Slabs, Etc.,
On hand and Manufactured to order.
☞ Goods shipped to all ports of the State. Orders respectfully solicited. 5v8-3m

W. W. HANSCOM,
Steam and Mechanical Engineer. Designs furnished, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc., etc. Agent for McKenzie's Patent Cupola and Blower.
At the Golden State Iron Works,
First Street, San Francisco.
tf.

THEODORE KALLENBERG,
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MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.
No. 413 Market street, San Francisco. n7-tf

Evening Instructions in Anylitical
Chemistry and Assaying,
Conducted by Thomas Price.
(Agent for the Swansea Ore Importers in California.)
HAVING FITTED UP A LABORATORY ESPECIALLY FOR INstruction in Analysis and Assays, the subscriber begs leave to announce that
A NEW CLASS WILL BE FORMED
On the 1st of June. For terms apply at the Laboratory, on the evenings of Tuesday and Saturday at 7 o'clock; or at the office of the "Pacific Mineral Company," Odd Fellow's Hall, Montgomery street. THOMAS PRICE.
San Francisco, May 10th, 1864. 20

New this Week.

St. Clair Consolidated Mining Company, Smoky Valley District, R. R., N. T.

Notice is hereby given, that at a meeting of the Board of Trustee of said company, held on the 7th day of June, 1864, an assessment of $1 per share was levied upon the Capital Stock of said company, payable immediately, in U. S. Gold Coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid an Saturday, the 9th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 23d day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. AUG. KUNAST, Secretary.

24-4t Office, 540 Washington street, San Francisco.

Rhode Island Gold and Silver Mining Com-pany, Keys Mining District, Mono county, California.

Notice is hereby given, that at a meeting of the Board af Trustees of said Company, held on the 10th day of June, 1864, an assessment of twenty-five cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretory.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATUROAY, the 30th day of July, 1864, to pay said delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

J. W. MYRICK, Secretary.

Office, No. 526 Montgomery street, over Blue Wing Saloon, San Francisco. 24-5t

Heidelberg Gold, Silver & Copper Mining Com-pany, Tomales Pais District, Marin County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 9th day of June, 1864, an assessment, No. 6, of ten cents per share was levied upon the capital stock of said Company, payable immediately, in U. S. Gold Coin, to the Secretary at his office, or to the Superintendent, Mr. H. N. KERR.

Any stock upon which said assessment shall remain unpaid on SATURDAY, the 9th day of July, 1864, will be advertised on that day as delinquent and unless payment shall be made before, will be sold on the 23d day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

B. ROTHSCHILD, Secretary.

24-4t Office, 522 Montgomery street, San Francisco.

La Marronena Silver Mining Company.—Location of mine, Lower California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of June, 1864, an Assessment of five dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 9th day of July, 1864, will be advertised on that day as delinquent, and, unless payment shall be made before, will be sold on SATURDAY, the 23d day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

OEO. L. FAULKNER, Secretary.

San Francisco, June 10th, 1864. 24-5t

Winona Gold and Silver Mining Company, Moss Lode, San Francisco District, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of June, 1864, an Assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable on the 11th day of June, 1864, in United States gold and silver coin, to the Secretary, No. 11 Government House, City and County of San Francisco.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 9th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 27th day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale.

EOW. QUACKENBUSH, Secretary.

Office, No. 11, Government House, cor. Sansome and Washington streets. 24-4t

Bodie Consolidation Gold and Silver Mining Company, No. 2. Location of Mine, Bodie District, Mono county, California,

Notice is hereby given, that at a meeting of the Trustees of said Company, held on the 10th day of June, A. D., 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable in U. S. gold coin, on the 13th day of July, 1864, to the Secretary, at office, S. W. corner of Clay and Montgomery streets, San Francisco.

Any stock upon which said Assessment shall remain unpaid on the said 13th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 25th day of July to pay the delinquent Assessment, together with costs of advertising and expenses of sale.

24-5t A. L. CHAMBERLIN, Secretary.

Vivian Gold and Silver Mining Company, Blue Sulphur Springs District, Lyon county, N. T.

The second annual meeting of the Stockholders of the Vivian Gold & Silver Mining Company, for the election of Trustees for the ensuing year, will be held at the office of the Company, 723 Montgomery street, on Wednesday, July 6th, 1864, at 3 o'clock, P. M.

24-4t HENRY S. FITCH, Secretary.

Our Circulation.—The Mining and Scientific Press has a large and permanent subscription list, and enjoys a more universal circulation among stockholders and persons directly interested in mining than any other paper on this coast.

White Mountain Consolidated Mining Com-pany.—Location: White Mountain District, Mono county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of the above named Company, held on the 6th day of June, 1864, an Assessment of fifteen (15) cents per share was levied on each and every share of the capital stock of the Company, payable immediately, in U. S. gold coin, to the Secretary, at his office.

Any stock upon which the assessments shall remain unpaid on the 9th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold, on the 20th day of July, 1864, at 1 o'clock P. M., at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco. The costs of advertising and the expenses of the sale will be added to the delinquent assessments. J. F. MILLER, Secretary.

Office, No. 416 Washington street.

San Francisco, June 10, 1864. 24-4t

Silver Creek Mining Company.--Location, Keys District, Mono county, California.

Notice is hereby given, that, at a regular meeting of the Board of Trustees of the above named Company, held on the 30th day of May, 1864, an assessment of fifty (50) cents per share was levied on each and every share of the capitol stock of the Company, payable immediately, in U. S. gold coin, to the Secretary, at his office, or to the Superintendent, at the mine.

Any stock upon which the assessments shall remain unpaid on the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 13th day of July, 1864, at 1 o'clock P. M., at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale. J. F. MILLER, Secretary.

Office, No. 416 Washington street.

San Francisco, June 10th, 1864. 24-4t

Aspinwall Gold and Silver Mining Company, Amador District, Lander County N. T.

Notice is hereby given that at a meeting of the Trustees of said Company, held on the 10th day of June, 1864, an assessment of fifty cents (50) per share was levied upon the Capitol stock of said Company, payable immediately, in U. S. Gold Coin, to the Secretary, at the office of the Company, 429 Pine street, San Francisco, or to J. E. BOWE, at Amador City, N. T.

Any stock upon which said assessment shall remain unpaid on the 15th day of July, will be advertised as delinquent, and unless payment shall be made before, will be sold on the 3d day of August, A. D. 1864, to pay the said delinquent assessment, together with cost of advertising and expenses of sale.

24-4t JOSEPH HEALY, Secretary.

Porter Gold and Silver Mining Company, Jor-dan Hill, Butte county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 11th day of June, 1864, an Assessment of fifty cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, or to J. L. PORTER, Superintendent, Yankee Hill, Butte county.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on WEDNESDAY, the 3d day of August, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees,

THOS. C. McCALLAN, Secretary.

24-4t Office, No. 622 Clay street, San Francisco.

Southern Belle Gold and Silver Mining Com-pany, Reese River District, Lander county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 9th day of June, 1864, an Assessment of twenty-five cents per share was levied upon the capital stock of said Company, payable on the 10th day of June, 1864, in United States gold coin, to the Secretary, or to R. T. HILL, Superintendent, at Austin, N. T.

Any stock upon which said assessment shall remain unpaid on Saturday, the 9th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 23d day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. W. F. HUGHES, Sec'y.

24-4t Office, No. 6 Mead House, San Francisco.

Phœnix Gold and Silver Mining Company, Reese River District, N. T.

Notice is hereby given, that on Thursday, July 14th, 1864, at 11 A. M., at the Office of the Company, No. 305 Montgomery Street, San Francisco, there will be sold to the highest bidder for cash, so many shares of the Capital Stock of the above named Co., standing to the credit of the following named persons, as will be necessary to pay all assessments now due, together with costs of advertising and expenses of the sale, unless the same shall have been previously paid, to wit;

Names.	No. Cert.	No. Shares	Amt.
Charles Huffman,	16 85 201 202,	31	$15 50
Ignatz Kipp,	115 117 205	34	17 00
Chas Schmitt,	31 127	15	7 50
Joseph Fitzler,	23	10	5 00
H L Joaquinson,	191	2½	1 25
Catherine Feagate,	103 104	15	7 50
F W May,	107	5	2 50
M Schwob,	130	15	7 50
D W Levan,	125	9	4 50
Charles White,	155	10	5 00
M Cook,	164	10	5 00
M Lyon,	168	5	2 50
G Batmich,	170	10	5 00
C Balles.	5 193 194 195, 1	2	66 00
George Metzger,		5	2 50
W A Smith,	35 127 185 186 187,	76	38 00
B A Sheldon,	51 52 53	25	12 50
A K P Smith,	112 113 114 121	31	15 50
A M Harkness,	166	10	5 00

By order of the Trustees, ROBT. T. POLE, Sec'y.

24—4t. Office, No. 305 Montgomery street, San Francisco.

Delta Gold and Silver Mining Company.

Saratoga Gold and Silver Mining Company, Amador District, Lander county, N. T.

At a meeting of the Trustees of the Delta Gold and Silver Mining Company, and the Saratoga Gold and Silver Mining Company, held March 28th, 1864, an Assessment of (50) fifty cents per share was duly levied on the Capital Stock of each of said Companies, payable immediately, in U. S. coin, to the Secretary, or to Wm. G. Blakely, at the mine. By order of the Board of Trustees.

WM. HOLLIS, Secretory.

24-4t No. 302 Montgomery street.

Mosquito Quartz Mining Company, Mosquito Gulch Calaveras County.

Notice.—There are delinquent upon the following described stock, on account of Assessment levied on the 10th day of May 1864, the several amounts set opposite the Names of the respective Shareholders, as follows:

Name	No. Cert.	No. Shares	Amt.
Meyerield,	70	2	$ 10 00
A Roseoer,	110	1	6 00
Leppien,	115	1	5 00
Tervis,	134	1	5 00
L Peris,	136	5	25 00
T F Poole,	189	2	10 00
T Gilardin,	145	1	5 00
Haussmnn,	166	1	5 00
G Pardow,	104	5	25 00
G Pardow,	171	6	60 00
G Pardow,	173	10	50 00
P Thiebaut,	144	1	5 00
P Thiebaut,	149	1	5 00
E L Goold,	169	10	50 00
E L Goold,	170	10	50 00
R R Maurice,	176	11	55 00
R R Maurice,	179	8	40 00
R R Maurice,	1 0	9	45 00
R R Maurice,	181	10	50 00
R R Maurice,	182	9	45 00
R R Maurice,	183	10	50 00
R R Maurice,	184	10	50 00
R R Maurice,	185	10	50 00
R R Maurice,	186	45	225 00

And in accordance with law, and an order of the Board of Trustees, made on the 25th day of May 1864, so many Shares as may be necessary, will be Sold at the salesroom of Cobb and Sinton, No. 408 Montgomery street, on the 1st day of July 1864 at the hour of 11 o'clock A. M. of said day, to pay said delinquent Assessment thereon, together with costs of Advertising and expenses of Sale.

EM. FENARD, Secretary.

24-5t. Office, No. 433 Montgomery Street.

Morning Call Silver Mining Company, Wheeler and Rogers Ledge No. 2, Big Creek District, Lauder county, Nevada Territory.

Notice.—There are delinquent upon the following described stock, on account of Assessment levied on the 11th day of May, 1864, the several amounts set opposite the names of the respective shareholders, as follows,

Names.	No. Certif.	No. Shares.	Amt.
Barnes, Geo E.....	not issued	80	$40 00
Butterfield, Rulus.....	not issued	100	50 00
Chapman, Wm.....	not issued	100	50 00
Dale, Benj F.....	not issued	100	50 00
Fisher, A A.....	not issued	100	50 00
Forster, Peter B.....	not issued	100	50 00
Fowler, Geo H.....	not issued	100	50 00
*Gale & Howe.....	not issued	100	50 00
Jobson, Chas F.....	not issued	100	50 00
Leonard, E A.....	not issued	100	50 00
Moody, J C.....	not issued	165	82 50
Reed, Thomas J.....	not issued	30	15 00
*Richards, D M.....	not issued	50	25 00
Wilcox, B.....	not issued		
Wilcocks, B.....	not issued	100	50 00
Ward Jr, A H.....	not issued	100	50 00
Wade, Able.....	not issued	100	50 00

*Assigned, but not transferred.

And in accordance with law, and an order of the Board of Trustees, made on the 11th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on the 29th day of June, 1864, at the hour of 11 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

EOW. QUACKENBUSH, Secretary.

Office, No. 11 Government House, corner Sansome and Washington streets, San Francisco. 24-3t

Mt. Vernon Gold and Silver Mining Company, Smoky Valley Mining District, Lander Co., N. T.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 7th day of May, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names,	No. Cert.	No. Shares	Amt.
J W Taylor,	1	5	$ 2 50
J W Taylor,	2	5	2 50
J W Taylor,	4	10	5 00
J W Taylor,	10	50	25 00
J W Taylor,	17	50	25 00
J W Taylor,	18	5	2 50
J W Taylor,	19	5	2 50
J W Taylor,	20	10	5 00
J W Taylor,	21	10	5 00
J W Taylor,	22	50	25 00
J W Barnham,	23	10	5 00
J W Barnham,	24	10	5 00
J W Barnham,	25	10	5 00
J W Barnham,	26	20	10 00
J W Barnham,	27	50	25 00
J W Barnham,	31	100	50 00
Jas M Allen,	28	10	5 00
Jas M Allen,	29	90	45 00
Winnie E Fallon,	30	10	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 7th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at public Auction, at the Office of the Secretary, on the 25th day of June, 1864, at the hour of 11 o'clock, A. M., of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

WM. H. DUDLEY, Secretary.

Office, No. 528 Montgomery Street, San Francisco.

24-4t.

Dexter Tunnel and Mining Company.--Location, Reese River, Nevada Territory.

NOTICE.—There is delinquent upon the following described stock, on account of an Assessment (No. 2) levied on the 1st day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shs.	Amt.
Betz, H	102, 103, 104, 105, 106, 107, 108, 109, 110, 111 —10 shs ea	100	50 00
Bell, G H	185	25	12 50
Bell, G H	186, 187—20 shs ea	40	20 00
Dexter, C H	72, 73, 74, 75, 76, 77, 78, 79, 80, 81 —10 shs ea	100	50 00
Ebert, Oco.	179, 180, 181, 182, 183—10 shs ea	50	25 00
Folz, G	162, 163, 164, 165, 166—10 shs ea	50	25 00
Gruhler, J	6	50	25 00
Gruhler, J	8	10	5 00
Gruhler, J	9	5	2 50
Gerhardt, C	132, 133, 134, 135, 136, 137, 138, 140, 141 —10 shs ea	90	45 00
Gunther, J B	177	10	5 00
Henneman, A	167, 168, 169, 170, 171 —10 shs ea	50	25 00
Kapus, Otto	172, 173, 174, 175 —10 shs ea	50	25 00
Kressel, J	152, 153, 154, 155, 156—10 shs ea	50	25 00
Leisse, H	127, 128, 129, 130, 131—10 shs ea	50	25 00
Lewis, Oscar	189, 190, 191, 192, 193, 194, 195, 696, 197, 198—not iss'd	100	50 00
Lambert, R	157, 158, 159, 160 —10 shs ea	50	25 00
Morrison, J C Jr.	27. not issued	65	32 50
McNulty, C A	28, 29, 30, 32, 33—10 shs ea	50	25 00
McNulty, C A	59	5	2 50
Marshall, H	34	5	2 50
Maguire, Thomas	60	100	50 00
Master, F A	147, 148, 149, 150, 151—10 shs ea	50	25 00
Noeden, Wm	178	10	5 00
Orear, D	62, 63, 64, 65, 66, 67, 68, 69, 70, 71 —10 shs ea	100	50 00
Ohmert, F W	112, 113, 114, 115, 116, 117, 118, 119, 120 —10 shs ea	90	45 00
Ploschko, Wm	92, 93, 94, 96, 96, 97, 98, 99, 100, 101 —10 shs ea	100	50 00
Stevens, W H	53	10	5 00
Stevens, W H	54	13	6 50
Shmidt, H	58	5	2 50
Schmidt, H G C	82, 83, 84, 85, 86, 87, 89, 90, 91 —10 shs ea	90	45 00
Schmitthurg, H	142, 143, 144, 145, 146 —10 shs ea	50	25 00
Shafer, L	184	10	5 00
Uhrig, C A	16	25	12 50
Uhrig, C A	17	35	17 50
Uhrig, C A	18	5	2 50
Wolieb, E	41	5	2 50
Wolleb, E	42, 43, 44, 45, 45, 47—10 shs ea	50	50 00

And in accordance with law, and an order of the Board of Trustees, made on the 1st day of April, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of John Middleton & Son, No. 400 Montgomery street, San Francisco, on the 11th day of July, 1864, at the hour of 12 o'clock M. of said day, to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

C. H. HORTON, Secretary.

Office, No. 543 Clay street, Golden Era Building, San Francisco. 24-4t

Moscow Gold and Silver Mining Company, Esmeralda District, Nevada Territory.

NOTICE.—A sufficient number of shares of the capital stock of the Moscow Gold and Silver Mining Company, standing on the books of the Compauy in the names of the following persons, will be sold, at Public Auction, at the salesroom of L. Keller & Co., No. 631 Market street, San Francisco, on FRIDAY, the 15th day of July, 1864, at 11 o'clock A. M., as may be necessary to pay assessments now due by said parties, together with expenses of advertising and sale, if not paid to the Secretary, at his office, previous to sale:

Names.	No. of Certificates.	No. of Assessments.	No. Shares.	Amt due.
J P O'Sullivan	20—not iss'd	1 2 3 4	20	$40 00
John Ooms	39, 40, 41, 42	3 4	100	100 00
B Dexter	35	3 4	75	75 00
A Faulk	not issued	3 4	4	4 00
J P Moulston	44	3 4	25	25 00
O H Hill	1 and 29	4	110	55 50
J A Deyo	50, 51, 52, 53, 54	4	115	57 50
T Bullen	34	4	15	7 50
Wm Jones	35	4	10	5 00
R Smivers	37	4	25	12 50
J C McDonald	45	4	15	7 50
J G Thompson	45	4	10	5 00

By order of the Board of Trustees.

GEORGE STURTEVANT, Secretary.

(24-4t) Office, No. 608 Montgomery street, San Francisco.

Bay State Gold and Silver Mining Company, Turnback District, Tuolumne county, California.

Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Bay State Gold and Silver Mining Company, there will be sold, at Public Auction, to the highest bidder, for cash, in U. S. gold coin, on the 11th day of July, 1864, at 11 o'clock A. M., at the salesroom of L. Keller, No. 537 California street, San Francisco, so many shares of the capital stock of the Company, standing in the names of the following persons, or shareholders, as will be necessary for the payment of Assessment No. 4, of two dollars per share, duly levied thereon March 23d, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said Assessment and accruing charges are previously paid:

Names.	No. Certificates.	No. Shares.	Amt.
John Sedgwick	2, 3, 4—ca 50	150	$300
John Sedgwick	5, 7, 8, 9, 10—ca 20	100	200
John Sedgwick	11, 12, 13, 14, 15—ca 10	50	100
Benj Wilson	22	100	200
Benj Wilson	23	200	400
Benj Wilson	24	20	40
W B Farwell	33	400	hal 700
Philip Myers	48, 52, 53, 54, 55—ca 20	100	200
Philip Myers	57	5	10
Philip Myers	58	15	30
W H Finch	29, 30, 31—ca 100	300	600
W H Finch	32	50	100
W H Finch	33, 34, 35, 36, 37—ca 10	50	hal 50
Jas O Read	1	10	20
Jas G Read	49	25	50
S E Holcomb	16	120	240
S D Jones	25	200	400
S D Jones	43	30	60
S D Jones	44, 45, 46—ca 20	60	120
S D Jones	47	10	20
Geo Weetman	19	20	40
L H Lincoln	20	10	20
Wheeler Martin	41	75	150
Wheeler Martin	56	100	200
Geo W Rose	40	75	hal 100
C H Clark	42	150	300
F H Robinson	59	100	hal 50

By order of the Board of Trustees.

J. F. HARRIS, Secretary.

Office, southeast corner Second and Howard streets. San Francisco, June 8th, 1864. 24-4t

Union Tunneling Company, Santa Clara, Humboldt County, Nevada Territory.

Notice is hereby given, that in accordance with the laws of Nevada Territory, the by-laws of the Company, and an order duly made, by the Board of Trustees of the above named company, there will be sold at Public Auction, in front of the Company's Office in Santa Clara, on Saturday, July 16th, A. D. 1864, at three o'clock, P. M., so many shares of the Capital Stock of said company, standing in the names of the following shareholders, as will be necessary to pay assessments Nos. 2 and 3 now due thereon, together with costs of advertising and other expenses of sale, unless the same shall have been previously paid.

Names.	No. Cert.	No. Shs.	Amount
Joseph A Benoit	32	10	$10
Geo S Burrago	102	5	3
Geo G Berry	134	10	10
Geo G Berry	135	10	10
Geo G Berry	136	5	5
Geo G Berry	137	5	5
G L Crane	34	10	10
Wm P Deuckla	21	10	10
Julia E Deuckla	22	10	10
L C Dodge	77	30	30
John Downey	84	5	5
M G Elmore	125	10	10
Warner Earl	160	5	2 50
H T Fairbanks	78	10	10
H A Fox	81	50	50
A C Gay	59	5	5
W E Gilaspie	not issued	50	55
E P Green	not issued	30	33
Elias Gill	79	10	10
W H Hoburg	5	10	10
W R Harrisou	35	15	15
W R Harrisou	40	15	15
W R Harrisou	42	20	20
W R Harrison	44	20	20
Geo W Harrison	47	25	25
Geo W Harrisou	60	5	5
S N Harrison	48	20	20
M W Haviland	75	12	12
M W Haviland	180	111	73
R N Hoff	82	10	10
J A Hollister	122	25	25
J A Hollister	124	15	16
O R Johnsou	49	25	25
G C Jones	52	10	10
Edward L Levy	13	25	25
Mary Lee	61	5	5
Trescott Lizenby	100	10	10
L H D Lange	139	5	2 50
L H D Lange	174	5	5
M Meador	not issued	15	16 50
G E Morgan	20	10	10
Robt McBeth	27	15	15
Robt McBeth	30	10	10
Robt McBeth	169	9	9
Miller & Kingsley	157	20	20
M H Myrick	161	5	2 50
John H Neale	51	10	10
John H Neale	158	10	10
O B O'Banon	1	25	25
W D Powell	12	10	10
David Porter	18	50	50
S H Pierco	19	10	10
Allen Peacock	176	10	5
H B Ray	15	5	5
H B Ray	111	10	10
Charlott C Robinson	114	62	62
Phelps Reed	152	10	5
R H Scott	90	25	25
A J Simmons	146	5	5
A J Simmons	147	5	5
E Volpillac	143	20	20
M T Woody	80	10	10
John Waugiuan	102	10	10
Thos D Williams	113	62	52
Wall & Hawley	151	10	10
Wall & Hawley	152	10	10
Wall & Hawley	155	5	5

N. B.—Payment of the above can be made to H. H. Woon, at No. 527 Clay street, San Francisco, until the 9th day of July, 1864, or at the office of the Company, in Santa Clara until the day of Sale. J. J. KELLOGG, Secretary.

Santa Clara, June 1st, 1864. 24-4t

Constitution Gold and Silver Mining Company, Lanier county, N. T. Office, No. 20, Exchange Building, cor. Washington and Montgomery streets, San Francisco, Cal., June 11th, 1864.

Notice is hereby given, that in accordance with the laws of the State of California, there will be sold at public auction, at the salesroom of Jerome Rice & Co., 327 Montgomery street, San Francisco, on WEDNESDAY, July 13th, 1864, at 11 o'clock A. M., of that day, to the highest bidder, for cash, in U. S. gold coin, so many shares of the Capital Stock of the Constitution Gold and Silver Mining Company standing in the names of the following shareholders as will be necessary for the payment of the Assessments due thereon, together with the expenses of advertisement and sale, unless said Assessments with accruing charges are previously paid, to wit:

Names.	No. Assts.	No. Shares.	Amt.
John Murphy	1 2 3	77	$79 00
Geo Cattermole	1 2 3	236	244 50
Jas S Whitton	1 2 3	164	163 00
W R Barnes	1 2 3	154	163 00
Wm Rose	1 2 3	236	244 50
John A Veateh	1 2 3	82	81 50
H A Wall	1 2 3	82	81 50
E S Davis	1 2 3	41	40 75
O A Palmer	3	102	51 75
E P Peckham	3	77	38 50
J S Kennedy	3	82	41 00
Lyman Beecher	3	35	15 00
J B Crockett	3	82	41 00
P C Lander	3	82	41 00
Julius Schultz	3	3	1 50
H S Waldron	3	10	5 00

By order of the Board of Trustees.

2l-4t JOS. C. FORD, Secretary.

Postponements and Alterations.—Secretaries are requested to give notice of postponements, or alterations which they may desire made in their advertisements, at their earliest convenience. New advertisements should be sent in as early as possible.

THE Pacific Central Railroad being now open to New Castle, the California stages, that have heretofore run from Lincoln to Washoe, are now on this route.

Ophir of the Colorado, No. 1, Gold and Silver Mining Co. Location of claim El Dorado Canon, Territory of Arizona.

NOTICE.—There is delinquent upon the following described stock, on account of assessment levied May 7th, A. D. 1864, of fifteen (15) cts. per share on each and every share of the Capital Stock of said Company, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Cert.	No. Shares.	Amt.
Sheldon Littlefield,	7	30	$4 15
Sheldon Littlefield,	10	20	3 00
Sheldon Littlefield,	12	5	1 50
Sheldon Littlefield,	68	20	3 00
Sheldon Littlefield,	69	20	3 00
Sheldon Littlefield,	73	30	4 50
Sheldon Littlefield,	74	30	4 50
Sheldon Littlefield,	99	10	1 50
B F M Packard,	10	10	1 50
B F M Packard,	17	10	1 50
B F M Packard,	18	10	1 60
B F M Packard,	19	10	1 60
B F M Packard,	20	10	1 60
B F M Packark,	22	25	3 75
B F M Packard,	23	2	3 75
B F M Packard,	24	25	3 75
B F M Packard,	25	20	3 00
B F M Packard,	27	20	3 00
B F M Packard,	28	20	3 00
B F M Packard,	30	20	3 00
B F M Packard,	31	20	3 00
B F M Packard,	32	20	3 00
B F M Packard,	33	10	1 50
B F M Packard,	34	10	1 50
B F M Packard,	35	10	1 50
B F M Packard,	36	10	1 50
B F M Packark,	37	10	1 50
B P M Packard,	38	10	1 50
B F M Packard,	91	17½	1 75
M Parker,	40	20	3 00
M Parker,	94	17½	2 62
A Goldthwaite,	76	50	7 50
A Goldthwaite,	77	50	7 50
A Goldthwaite,	79	50	7 50
A Goldthwaite,	80	50	7 50
A Goldthwaite,	81	50	7 50
A Goldthwaite,	82	50	7 50
A Goldthwaite,	83	30	4 50
M V B Stacy,	106	10	1 50
E W Clark,	87	20	3 00

And in accordance with the laws of the State of California and the By-Laws of the Company, so many shares of each parcel of said stock as may be necessary, will be sold at the Office of the Company, No. 410 Montgomery Street, on Thursday the 25th day of June, A. D. 1864, at 12 o'clock M., to pay said delinquent assessment thereon, together with the cost of advertising and expenses of the sale. By order of the Board of Trustees.

24-2t RODNEY CLARK, Secretary.

Penole Gold, Silver and Copper Mining Company, Clayton District, Contra Costa county, Cal.

There is delinquent upon the following described stock, on account of Assessment, No. 5, levied May 7th, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certif.	Shares.	Am't.
John Bamber	hal of 16	15	$7 50
John Bamber	18	25	12 50
H O'Hara	123	5	2 50
H O'Hara	134	15	7 50
H O'Hara	153	50	25 00
James Guy	74	10	5 00
James Guy	97	7	2 50
S A Beuis	55	15	7 50
G Riedel	70	25	12 50
B F Mann	103	10	5 00
W E Hughes	104	25	12 50
C G Hughes	105	25	12 50
C G Hughes	107	25	12 50
Walter Hatley	106	10	5 00
Wm M Wade	109	30	15 00
J L Howell	113	5	2 50
R Ferris	114	5	2 50
L O Hodgekins	117	20	10 00
Geo Bird	118	25	12 50
Baindridge Howe	119	25	12 50
E H Rodgers	126	25	12 50
R M Rodgers	127	25	12 50
C P Kimball	128	5	2 50
N Johnson	129	50	25 00
Jno Carter	133	30	15 00
S P Doane	135	10	5 00
R B Farnum	136	25	12 50
R B Farnum	137	20	10 00
C E Driscoll	146	50	25 00
Alfred Clemow	152	50	25 00
D C Eaton	154	25	12 50
Wm F McCorl	158	25	12 50
Ashley Cameron	159	50	25 00
E Jordon	160	25	12 50
Ala Maria Moore	162	50	25 00

And in accordance with law and an order of the Board of Trustees, made on the 7th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by John Middleton & Son, 400 Montgomery street, San Francisco, on the 25th day of June, 1864, at 12 o'clock, at noon, to pay said delinquent Assessments, together with costs of advertising and sale.

GEORGE A. BALL, Secretary.

24-4t] Office. 509 Clay street, San Francisco.

Tuolumne Gold and Silver Mining Company, Moss Lode, San Francisco District, Arizona Territory.

NOTICE.—There is delinquent, upon the following described Stock, on account of Assessment levied on the 10th day of May, 1864, the amount set opposite the name of the following shareholder, to wit:

Name	No. Cert.	No. Shares	Amt.
P J Gifford,	not issued	200	$20 00

And in accordance with law, and an order of the Board of Trustees, made on the 10th day of May, 1864, so many shares of each parcel of said Stock as may be necessary, will be Sold at Jerome Rice & Co's Salesroom, on the 29th day of June, 1864, at the hour of 11 o'clock A. M., of said day, to pay said delinquent Assessment thereon, together with costs of Advertising and expenses of the Sale.

EDW. QUACKENBUSH, Secretary.

Office, 11 Government House, corner Sansome and Washington Streets. 24-4t

Two monster whales have recently been captured off Sandy Hook and brought to New York.

Scorpion Silver Mining Company, Virginia District, Nevada Territory.

Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Scorpion Silver Mining Company, there will be sold, at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on SATURDAY, May 28th, 1864, at 11 o'clock A M. of that day, to the highest bidder, for cash, in U. S. coin, so many shares of the capital stock of said Company, standing in the names of the following shareholders, as will be necessary for the payment of an assessment of twenty-five cents per share, duly levied thereon by the Board of Trustees on the 21st day of March, A. D. 1864, and assessments previous thereto, together with the expenses of advertisement and sale, to wit:

Names.	Shares.	Assessments— No 20	No 21	No 22	No 23	No 24	No 25	Amt due,
B Bayerque	12							$3 00
J T Hartwell	16					4 00		4 00
J L Bulford	59				14 75	14 75	14 75	44 25
S F Bufford	24						6 00	6 00
C Broad	10						2 50	2 50
F Bollicau	10			2 50	2 50	2 50	2 50	10 00
Mrs L G Baker	10		2 50	2 50	2 50	2 50	2 50	12 50
S E Barnard	1			25	25	25	25	1 00
Rebecca Bones	4					1 00	1 00	2 00
S L Cotran	20		5 00	5 00	5 00	5 00	5 00	25 00
L Chopard	2				50	50	50	1 50
L E Coleman	2					50	50	1 00
Chas Clayton	5						1 25	1 25
C Chevallier	16				4 00	4 00	4 00	12 00
P Crogett	19					4 75	4 75	9 50
W D Dyer	12			3 00	3 00	3 00	3 00	12 00
— Deutsch	3						75	75
M Eldred Jr	115						28 75	28 75
E D Feusler	8			50	50	50	2 00	3 50
H Feusler	4						1 00	1 00
C Gignoux	10						2 50	2 50
F Henderson	228				57 00	57 00	57 00	171 00
H Hentsch	10			2 50	2 50	2 50	2 50	10 00
B A Hendrickson	5						1 25	1 25
J R Hughes	12				3 00	3 00	3 00	9 00
N T Jahnsan	12			2 50			2 50	5 00
John Kelly	49				5 00	12 25	12 25	30 50
J B Lafargue	2			50	50	50	50	2 00
W W Morgan	2			50	50	50	50	2 00
John McKewen	9						2 25	2 25
John Paine	3	75	75	75	75	75	75	4 50
Emeline A Paine	3	75	75	75	75	75	75	4 50
M Pratt	2						50	50
P Robinson	100						25 00	25 00
Robt Sherwood	200						50 00	50 00
Herman Smith	10						2 50	2 50
Emma R Scheper	1						25	25
Henry Voliers	5						1 25	1 25
E D Waters	12						3 00	3 00
Eliza A Waters	12						3 00	3 00
Ella Waters	1						25	25

By order of the Trustees. W. H. MARTIN, Secretary.
San Francisco, April 28, 1864. 627 Clay street.

The above sale is postponed until SATURDAY, June 11th, 1864, at same hour and place as above mentioned. By order of the Trustees. W. H. MARTIN, Secretary.
22-td No. 527 Clay street, San Francisco.

The above sale is postponed until SATURDAY, June 18th, 1864, at same hour and place as above mentioned. By order of the Trustees. WM. H. MARTIN, Secretary.
24-td No. 627 Clay street.

Smith & Martin Gold and Silver Mining Company, Reese River District, Lander county, N. T. Office, No. 35 Government House, San Francisco, Cal.

Notice is hereby given that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Smith & Martin Gold and Silver Mining Company, there will be sold at Public Auction, at the salesroom of Messrs. Cobb & Sinton, No. 468 Montgomery street, San Francisco, Cal., on Monday, June 13, A. D. 1864, at 11 o'clock A. M. of that day to the highest bidder, for cash, in United States coin, so many shares of the Capital Stock of said Company standing in the names of the following persons as will be necessary for the payment of an assessment of fifty cents per share, duly levied thereon by the Board of Trustees, on the 9th day of March, A. D. 1864, together with the expenses of advertisement and sale, to wit, &c.

Names.	No Certificates.	No. Shares.	Amt.
Henry Smith,	Cert—13, 14 Shs—10, 10	20	$10 00
George Warren,	23	5	2 50
R Martin,	Cert—71, 40 Shs—10, 7¼	17¼	8 75
F C Robinson,	Cert—49, 50, 51, 53 Shs—20, 20, 10, 5	55	27 50
J A Maynard,	Cert—56, 57, 58, 59, 61 Shs—20, 20, 10, 10, 5	65	32 50
J Leffingwell,	69	20	10 00
A E Minnica,	Cert—62, 53, 64 67 Shs—20, 20, 10, 5	65	32 50
William Rose,	Cert—76, 77 Shs—5, 5	10	5 00
F F Halfield,	Cert—82, 83, 84 Shs—10, 5 7¼	22½	11 25
Samuel Donnelly,	Cert—93, 121 Shs—7½, 2½	10	5 00
William Murphy,	95	5	2 50
E S Davis,	Cert—97, 98, 99 Shs—10, 5, 7¼	22½	11 25
William Calnan,	100	9	4 50
David McDaniel,	7	15	7 50
C F Morrell,	10	10	5 00
Robert Rankin,	1	15	7 50
I W Doss,	101	5	2 50
Thomas McCartney,	118	2¼	1 25
J G Dows,	122	10	5 00
W C Daggett,	Cert—125, 128, 132 Shs—5, 5, 5	15	7 50
R S Cassinger,	127	10	5 00
W W Nixon,	130	10	5 00
W Wallin,	134	10	5 00
Isaac S Titus,	135	10	5 00
19 5t		ROBERT T. POLK, Secretary.	

WANTED,
Gold Quartz suitable for Cutting Jewelry.
By **FRONTIER & DEVIERCY.**
437 Pine Street, San Francisco.
au3ltf.

Terms in Advance.—Having adopted the cash system, ALL payments for subscriptions must be made in advance. If old subscribers find their paper discontinued at any time, don't stop to grumble about it, but send in the cash for another year. "Equality is Justice," and we shall administer this doctrine to all our patrons, as well as "the rest of mankind."

How to make your Remittances.—In most of the mining towns, brokers will furnish checks on San Francisco at par, (or at a very slight advance) to those who wish to pay us for subscriptions, advertising, mining blanks, etc. When it is more convenient, money may be remitted by mail at our risk if the parties sending will register their letters. Money sent by mail is seldom lost if properly enclosed. An excellent method is that of opening the layers of a card, placing the coins between the layers and sealing the edges together.

Wide West Copper Mining Company, Copper Canon, Calaveras County, State of California.

Notice.—There are delinquent, upon the following described stock, on account of assessments levied on Dec. 12th 1863, and March 26th 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Assessment No. 1,

Names.	No. Cert.	No. Shares.	Amt.
Bateman A.	114	119	$29 75
Assessment No 2, Levied Dec. 12th, 1863.			
Bateman, A.	114	119	29 75
Logan, James	67	150	37 50
Geddes, W. H.	85	50	12 50
Geddes, W. H.	86	50	12 50
Geddes, W. H.	87	25	6 25
Geddes, W. H.	88	25	6 25
Assessment No. 3, Levied March 26th 1864.			
Logan, James	67	150	45 00
Geddes, W. H.	85	50	15 00
Geddes, W. H.	86	50	15 00
Geddes W. H.	87	25	7 50
Geddes, W. H.	88	25	7 50
Tilley, W. J.	6	50	15 00
Tilley, W. J.	7	50	15 00
Tilley, W. J.	8	50	15 00
Isaacs, A. C.	10	37	11 10
Felton, H. T.	20	10	3 00
Felton, H. T.	21	10	3 00
Felton, H. T.	81	10	3 00
Felton, H. T.	82	10	3 00
Bawton, J. A.	27	10	3 00
Rawson, J. A.	28	5	1 50
Rawson, J. A.	47	5	1 50
Otis, Stephen	39	150	45 00
Otis, Stephen	74	150	45 00
Otis, Stephen	84	40	12 00
Martin, R. P.	64	150	45 00
Greenman, L. B.	80	10	3 00
Lipe, Seber	89	10	3 00
Bateman, A.	114	119	35 70
Linsey, E. W.	109	10	3 00

And in accordance with law, and an order of the Board of Trustees made on the 24th day of May, 1864, so many Shares of each parcel of said Stock as may be necessary, will be Sold at Jerome Rice & Co's., 327 Montgomery street, on the 13th day of June, 1864, at the hour of 10 o'clock, A. M., of said day, to pay said delinquent Assessment thereon, together with costs of Advertising and expenses of the Sale. M. O. ELMORE, Secretary.
Office, 645 Clay street, San Francisco. 22-2t

The above sale is postponed until Tuesday, June 21st, 1864, at the same hour and place. By order of the Board of Trustees.
24-2t M. O. ELMORE, Secretary.

Refugio Mining Company, Jesus Maria, Chihuahua, Mexico.

Notice, there are delinquent, upon the following described Stock, on account of Assessment levied on the 18th of November, 1863, and the 9th day of February, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shs.	Am't
Assessment No. 1.			
Davidson, L.	100	60	$600 00
Martin, A.	101	20	200 00
Assessment No. 2.			
Campbell, Robt.	3, 93, 94, 169	53	$530 00
Cahill, Ed.	13	10	100 00
Burstell, J. M.	22, 70, 85, 86, 89, 138, 142, 7	92	920 00
Davidson, L.	108, 160	72	720 00
Eastman, C. A.	105	100	1000 00
Martin, A.	101, 161	24	240 00
Malloy, John	88, 91	25	250 00
McKean, A. C.	114, 128	5	50 00
Mowry, Sylvester	16	63	630 00
Smyth, C. F.	40, 87, 150	50	500 00
Webb, C. H.	155	50	500 00

And in accordance with law, and an order of the Board of Trustees made on the 18th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at public auction at the salesroom of Jerome Rice & Co., No. 327 Montgomery Street, on the 21st day of June, 1864, at the hour of 12 o'clock, M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

COLL DEANE, Secretary.
21-4t Office, Odd Fellows Hall, Montgomery st., San Francisco.

POSTPONEMENT.—The above sale is postponed to the 23th day of June, 1864, at the same hour and place. By order of the Board of Trustees. COLL DEANE, Secretary.
24 3t San Francisco, June 7th, 1864.

Wall Street Gold and Silver Mining Company, Reese River District, Lander County, N. T.

Notice.—There are delinquent, upon the following described Stock, on account of Assesment levied on the 3d day of May, 1864, the several amounts set opposite the names of the respective Shareholdera, as followa:

Names.	No. Certif.	No. Shares.	Amt.
R C Wilcox	25	20	$10 00
R C Wilcox	26	20	10 00
R C Wilcox	28	20	10 00
R C Wilcox	29	20	10 00
R C Wilcox	45	5	2 50
R C Wilcox	53	10	5 00
R C Wilcox	54	10	5 00
R C Wilcox	55	20	10 00
R C Wilcox	77	10	5 00
A J Hedrick	56	20	10 00
A J Hedrick	57	20	10 00
A J Hedrick	58	10	5 00
R B Turner	40	10	5 00
Wm H Glascock	46	10	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 3d day of May, 1864, so many Shares of each parcel of said Stock as may be necessary, will be sold at the office of the company on the 18th day of June 1864, at the hour of 11 o'clock A. M., of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

WM. H. DUDLEY, Secretary.
23-2t Office, No. 528 Montgomery street, San Francisco.

North Superior Copper Mining Company, Union Mining District, Plumas County, California.

Notice is hereby given that the Annual Meeting of the Stockholders of the Company, for the election of a Board of Trustees to serve for the ensuing year, and the transaction of any other business that may come before the meeting, will be held at the office of the Company, Room No. 12, 338 Montgomery street, on Monday, the 4th day of July. A. D., 1864 at 11 o'clock, A. M.

T. B. SHERMAN, Secretary.
San Francisco, June 1st, 1864. 24

Oxford Beta Tunnel and Mining Company, Silver Hill, Esmeralda District, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 9th day of May, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on the 10th day of May, 1864, in United States gold coin, to the Secretary, or to Thomas Lytle, Superintendent, at Aurora, N. T.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 11th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 29th day of June, 1864, to pay the delinquent Assessment, together with the costs of advertising and expenses of the sale. By order of the Board of Trustees. GEO. H. PECK, Sec'y.
20-4t Office, Corner of Broadway and Sansome Streets.

POSTPONEMENT.—Notice is hereby given that at a meeting of the Board of Trustees of the above named Company, held on the 28th day of May, 1864, it was ordered that the time for publication of delinquent stock, under the above named assessment, be extended from the 11th to the 18th day of June, 1864, and that the time of sale of the delinquent stock be extended to the 6th day of July, 1864. By order of the Board of Trustees. GEO. H. PECK, Sec'y.
23-td Office, cor. of Broadway and Sansome sts., San Francisco.

Orinoco Gold & Silver Mining Company,
Carroll Gold & Silver Mining Company,
Brooklyn Gold & Silver Mining Company,
Lapland Gold & Silver Mining Company,
Victoria Gold & Silver Mining Company,
Mohawk Gold & Silver Mining Company, Reese River District, Lander County, Nevada Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Companies, held on the 28th day of May, 1864, an Assessment, of 50 cents per share was levied upon the capital stock of each of said Companies, payable on the 30th day of May, 1864, in U. S. gold coin, to the Secretary, or to Josnua Malloy, Superintendent at the mine.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 2d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 16th day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees,

WM. O. WENDELL, Secretary.
Office, 501 & 503, N. W. cor. Front and Washington sts., San Francisco. 23-4t

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Mt. Zion Gold, Silver and Copper Mining Company, Clayton District, Contra Costa county, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of May, 1864, an Assessment, No 12, of fifty cents per share was levied upon the Capital Stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at his office, 240 Montgomery street San Francisco.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 18th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday the 6th day of July, 1864, to pay the delinquent Assessment, together with the costs of Advertising and expenses of the sale. By order of the Board of Trustees.

A. G. WOOD, Secretary.
Office, No. 240 Montgomery street, No. 4, 2d floor. 21-4t

Nevada Copper Mining Company, Nevada County, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 14th day of May, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable immediately in U. S. gold coin, to the Secretary, at the office of the Company, or to the Superintendent, E. W. Maslin, at Grass Valley.

Any stock upon which said Assessment shall remain unpaid on the 18th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 2d day of July, 1864, to pay the delinquent Assessment, together with the costs of Advertising and expenses of sale.

RICHARD S. CLARK, Secretary.
Office, 610 Merchant street, San Francisco. 21-4t

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AGENTS FOR "COLEMAN'S CALIFORNIA CLIPPER LINE," loading and despatching regularly, every month, two to three first class clippers for San Francisco. Goods forwarded from any part of the United States or Europe, will be received with care, and shipped immediately at lowest current rate of freight. Bonded goods carefully attended to.
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We beg to say, no house has superior facilities for the transaction of all this business, and parties intrusting their interests to our care may rely upon our most faithful and watchful attention.
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WM. T. COLEMAN & CO.,
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PAYABLE IN COIN OR IN CURRENCY—FOR SALE, IN SUMS to suit, by WM. T. COLEMAN & CO.,
18v8 California and Front streets, San Francisco.

Rubicon Gold & Silver Mining Company No. 3, Location of mine, Keys District, Owens River, Mono County, California.

Notice is hereby given, that, in accordence with the laws of the State of California, and an order duly made by the Board of Trustees of the Rubicon Gold and Silver Mining Company, No. 3, there will be sold, at public auction, to the highest bidder for cash, in U. S. gold coin, on the 17th day of June 1864, at 11 o'clock A. M., of that day, at the office of the Company, No. 7 and 8, third floor, No. 302 Montgomery street, San Francisco, so many shares of the capital stock of the above Company standing in the names of the following persons, or shareholders, as will be necessary for the payment of assessment No. 5, of ten (10) cents per share, duly levied thereon, April 18th, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said assessment and accruing charges are previously paid.

Names.	No. certificates.	No. shares.	Amt.
Altkin, Saml	214, 217	17	$1 70
Adams, Blinn & Co	313	50	5 00
Adams, W J	562	200	20 00
Adams, W J	563, 564—ea 100	200	20 00
Adams, W J	565	137	13 70
Albisher, Bruno	351	5	50
Brant, August	148	10	1 00
Blain, J D	101, 102, 103, 104—ea 25	100	10 00
Baker, E G	199	40	4 00
Boyer, W L	305	4	40
Bennet, Geo	724	25	2 50
Brogan, N	441	5	50
Brasch, H G	657	50	5 00
Brasch, H G	658	30	3 00
Brasch, H G	659	10	1 00
Blakely, R F	472	12	1 20
Bain, Robt	560	50	5 00
Beckford, D R	558, 559, 597, 598—ea 25	100	10 00
Bland, Adam	no cer	150	15 00
Bush, Henry	no cer	150	15 00
Cook, Sarah	39	25	2 50
Cook, Sarah	no cer	125	12 50
Carr, J F	146	25	2 50
Carr, J F	147	50	5 00
Carr, J F	no cer	75	7 50
Cushman, C S	342, 345—ea 25	50	5 00
Chase, H A	386	5	50
Campbel, Chas	485	15	1 50
Chester, Henry	456	50	5 00
Chester, Henry	459	25	2 50
Chester, Henry	603	35	3 50
Chester, Henry	668	6	60
Chester, Henry	669	59	5 90
Chester, Henry	699	150	15 00
Chester, Henry	no cer	150	15 00
Clark, G G	545, 546—ea 25	50	5 00
Chart, Ohed	576	37	3 70
Cromwell, J L	670	10	1 00
Cremer, Benj	no cer	150	15 00
Carter, W P	no cer	75	7 50
Doran, David	118	5	50
Doran, David	205	50	5 00
Doran, David	206, 207—ea 35	70	7 00
Derky, Chas	145	2½	25
Dore, Benj	150	25	2 50
Donohue, Wm	309	5	50
Dunscomb, Ed	550	25	2 50
Davis, W G	424	200	20 00
Davis, W G	425, 426—ea 50	100	10 00
Davis, W G	509	55	5 50
Davis, W G	537, 628, 630, 631, 632, 633, 634—ea 25	175	17 50
Davis, W G	701, 720—ea 12	24	2 40
Davis, W G	703	13	1 30
Davis, W G	no cer	33	3 30
Dixon, I	599	50	5 00
Dougart, J J	600	7	70
Doud, Philo	620, 621—ea 9	18	1 80
Doud. Philo	no cer	132	13 20
Doscher, Henry	no cer	143	14 30
Diggins, Wesley	757	100	10 00
Diggins, Wesley	no cer	1400	140 00
Evans, John	2	4	80
Etique, J P	363	50	5 00
Etique, J P	no cer	95	9 50
Estate of E Errickson	353, 518, 519—ea 25	75	7 50
Estate of E Errickson	354	11	1 10
Estate of E Errickson	718	12	1 20
Eichel, C	735	4	40
Ferris, Wm F	127	15	1 50
Folger, Jos	161, 162, 236—ea 5	15	1 50
Folger, Jos	234	10	1 00
Folger, Jos	237	95	9 50
Fogerty, Patrick	226	10	1 00
Fellows, D A	538	25	2 50
Fifield, Wm	739	15	1 50
Fillebrown, Jas	no cer	300	30 00
Gerrick, P P	569	12	1 20
Genung, A M	no cer	150	15 00
Hall, H B	37	140	14 00
Hall, H B	no cer	5	50
Hathawoy, Sam'l	196	25	2 50
Harbluger, Carl	144	2½	25
Ham, C W	159	5	50
Ham, C W	no cer	145	14 50
Ham, S A	no cer	150	15 00
Holm, H	294	20	2 00
Holm, H	295, 296—ea 25	50	5 00
Holm, H	297	50	5 00
Hall, Alonzo	325	4	40
Hall, Alonzo	no cer	146	14 60
Hayden, J H	368	25	2 50
Henderson, Thos	405, 406—ea 10	20	2 00
Henderson, Thos	407	50	5 00
Henderson, Thos	616	5	50
Harris, J F	671	25	2 50
Harris, J F	672	50	5 00
Johnson, J B	246, 247, 248, 249, ea 25	100	10 00
Johnson, J B	no cer	1305	130 50
Jeffress, John	258	12	1 20
Jeffress, John	no cer	93	9 30
Kirby, W L	no cer	35	3 50
Kennedy, John	254	25	2 50
Kennedy, John	no cer	118	11 80
Kneedler, Jno	260	12	1 20
Kneedler, Jno	261	50	5 00
Kneedler, Jno	358	5	50
Kneedler, Jno	no cer	58	5 80
Kennedy, Thos	337, 417, ea 5	10	1 00
Kennedy, Thos	no cer	140	14 00
Kennedy, Jas	no cer	150	15 00
Kimball, M H	no cer	42	4 20
Lane, Levi C	14, 15	125	12 50
Lovejoy, A J	83	25	2 50
Lovejoy, A J	276	12	1 20
Louterwasser, C	203	25	2 50
Louterwasser, C	no cer	235	23 50
Lewison, Lewis	190, 191, 192, ea 1 00	300	30 00
Loudon, Wm	331	5	50
Leggett, Thos W	404	10	1 00
Lee, Chas	626	8	80
Lee, Chas	577	13	1 30
Lee, Chas	609	20	2 00
Laundry, Lewis	497	12	1 20
Lyon, Wm S	503	29	2 90
Lyon, Wm S	732	7½	75
Long, E, Estate of	511	315	31 50
Long, E, Estate of	512	150	15 00
Luelling, W H	542	240	24 00
Lovely, Horace	653	25	2 50
Lord, A J	676	12	1 20
Louterwasser, F P	733	12	1 20
Martin, Wheeler	4	25	2 50
Martin, Wheeler	35, 40, 41—ea 30	90	9 00
Martin, Wheeler	no cer	675	67 50
McCort, Robert	30	75	7 50
Main, E F	78	5	50
Mitchell, D H	333, 436—ea 25	50	5 00
Mitchell, D H	449, 450, 464—ea 12	36	3 60
Mitchell, D H	462	10	1 00
Myers, Pinkus	99	75	7 50
Motteler, Fred	378	12	1 20
Motteler, Fred	380, 381, 382, 383, 384—ea 20	100	10 00
Mottelcr, Fred	385	21	2 10
Mahan, H H	183	25	2 50
Mallen, Jno	227	5	50
Molt, Jno P	666, 667—ea 25	50	5 00
Miller, Peter C	356	7	70
Miller, Peter C	640, 641, 642—ea 25	75	7 50
Miller, Peter C	no cer	193	19 30
Mayhew, G S	429	5	50
Mayhew, G S	430	50	5 00
Mayhew, G S	494	25	2 50
Merrill, I L	481	25	2 50
Martel, Jno	507	20	2 00
Middleton, J H	539	12½	1 25
Muhm, Anna	573	10	1 00
Muhm, Anna	574	65	6 50
Miller, M M	611	150	15 00
Mason, J H	622	12	1 20
Moore, J J	711	25	2 50
Mcfver, John	730	10	1 00
Myrick, J W	no cer	150	15 00
Nahl, H W A	410	25	2 50
Norman, D	438	25	2 50
Noble, G W	596	20	2 00
O'Connell, James	271, 272—ea 50	100	10 00
O'Connell, James	273, 274—ea 25	50	5 00
Porter, Thos H	183	10	1 00
Porter, Thos H	no cer	105	10 50
Patterson, John	389	20	2 00
Patterson, John	494	150	15 00
Plumer, J S	413	10	1 00
Porkin, Wm	473	19	1 90
Pickett, E W	689	150	15 00
Pickett, E W	690	50	5 00
Pervear, T J	21	53	5 30
Pervear, T J	31	75	7 50
Pervear, T J	267	15	1 50
Pervear, T J	399	3	30
Raymond, Chas	186	100	10 00
Rath, Elias	377	5	50
Reas, J E	415	20	2 00
Reas, J E	731	25	2 50
Richards, I	434	75	7 50
Reas, H M	706	20	2 00
Ramsey, Peter	537	5	50
Robinson, W E	645, 646, 647, 648—ea 25	100	10 00
Riley, C C	696	75	7 50
Riley, C C	697	50	5 00
Reynolds, John	no cer	450	45 00
Santif, N	124	150	15 00
Santiff, M	125	75	7 50
Santiff, M	126, 129, 130—ea 25	75	7 50
Stewart, James	210, 211	18	1 80
Stitt, Robert	489	50	5 00
Stitt, Robert	745	46	4 60
Smith, Wm	218, 219, 220, 221, 222, 223—ea 25	150	15 00
Schmidt, J C	598	134	13 40
Spalding, C A	330, 376—ea 25	50	5 00
Spaidling, C A	374, 375—ea 50	100	10 00
Sutherland, Jacob	345	63	6 30
Sanchez, F	486, 488—ea 12	24	2 40
Sanchez, F	548	13	1 30
Spencer, O W	549	75	7 50
Spencer, O W	655	18	1 80
Spencer, O W	no cer	1,357	135 70
Swain, R R	635	25	2 50
Stadtlelt, Mary	656	7	70
Silver, Frank	688	15	1 50
Simpson Geo	698	12	1 20
Smith, Richard	712	25	2 50
Santif, Jos	no cer	150	15 00
Shoemaker, F	766	73	7 30
Tunock, A	275	2	20
Tyler, B F	306	3	30
Torhune, C P	310	10	1 00
Tengstrom, A	no cer	138	13 80
Taylor, Jno R	602	15	1 50
Van Hagan, I P	120	25	2 50
Van Hagen, I P	520, 521, 522, 523, 524, 525 ea 12	72	7 20
Van Hagan, I P	no cer	1,148	114 80
Vongundy, Jos	193, 194—ea 25	50	5 00
Vongundy, Jos	224	12	1 20
Vongundy, Jos	no cer	388	38 80
Van Hagan, J B	366	25	2 50
Von Poser, H	547	12	1 20
Van Vleck, D	750	250	25 00
Wainwright, Wm	97	10	1 00
Wainwright, Wm	453	65	6 50
Winslow, E G	478	27½	2 75
Wunenberg, N H	133	25	2 50
Wunenberg, N H	135	50	5 00
Wunenberg, N H	136, 137, 138—ea 5	15	1 50
Wunenberg, N H	421	10	1 00
Wunenberg, N H	422	30	3 00
Ware, Jos	245	2	20
Ware, Jos	607	6	60
Ware, Jos	694, 695—ea 12	24	2 40
Ware, Jos	738	75	7 50
Ware, Jos	749	25	2 50
Ware, Jos	no cer	129	12 80
Wickberry, Francis	743	100	10 00
Wickberry, Francis	746	175	17 50
Weston, D S	370	2½	25
Wyman, F C	414	20	2 00
Wood, W C	500	25	2 50
Walmesly, W W	615	5	50
Young, Richard	32	75	7 50
Young, Richard	no cer	25	2 50

By order of the Board of Trustees.

J. P. VAN HAGAN, Secretary.

Office, No. 302 Montgomery street, No. 7 and 8, 3d floor, San Francisco, May 27, 1864. 22-2t

Lewis Consolidated Gold and Silver Mining Company.

Nicolaus Gold and Silver Mining Company, Reese River Mining District, N. T.

NOTICE.—There is delinquent upon the following described stock, on account of assessment levied on the 25th day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

LEWIS CONSOLIDATED GOLD AND SILVER MINING COMPANY.

Names.	No. cert.	No. Shares.	Amt.
Frank Snow	32,40 41 61 62 63 64 65 66	117 to 134	500	$125 00
Geo W Lcet	11 52 to 60 and 67 to 83	400	100 00
S McBrown	21 85	75	18 75
John A Weaver	22 23 26 27 28 29 30 116	400	100 00
E A Isaacs	42 to 51	500	125 00
A Hartman	84	25	6 25
R Smith	86	33	8 25
W W Hartman	87 to 106	342	85 50
John Hill	107 108 109	50	12 50
Robert Lisle	110 to 114	50	12 50
Hardenbgh & Dyer.	115	100	25 00
R Huckins	not Issued	25	6 25

NICOLAUS GOLD AND SILVER MINING COMPANY.

Names.	No. Cert.	No. Shares.	Amount.
W C Phillips	2	10	$2 50
W W Cole	4 and 17 to 26	150	37 50
E Hamel	6	37½	9 37
M O Lee	8 9 and 11 to 16	165	41 25
B Toland	7	37½	9 38

And, in accordance with law, and an order of the Board of Trustees, made on the 25th of April, 1864, so many Shares of each parcel of said Stock as may be necessary, will be sold at the Salesroom of Jerome Rice & Co., 327 Montgomery street, San Francisco, on Wednesday the 15th day of June, 1864, at the hour of 11 o'clock, A. M., of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

By order of the Board of Trustees.

D. B. FRANCIS, Secretary.

22-2t Office, 509 Clay Street, San Francisco.

Illinois Gold and Silver Mining Company, Smoky Valley District, Lander county, Nevada Territory.

Notice is hereby given, that there are delinquent upon the following described stock, on account of Assessment No. 2, levied May 2d, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amt.
Bradsbaw, T T	23	10	$5 00
Bemis & Edson,	3	20	10 00
Benoist, T S	24	10	5 00
Brooks, Hy S	87	4	2 00
Brush, R G	25	5	2 50
Brush, R G	52	50	25 00
Brush, R G	61	5	2 50
Cary, James	58	1	50
Cromer, Henry	56	5	2 50
Edson, E W	2	5	2 50
Gable, Henry	96	10	5 00
Gable, Henry	97	20	10 00
Gable, Henry	101	15	7 50
Gray, John	33	10	5 00
Grotjan, G W	92	1	50
Irvine, John	36	10	5 00
Irvine, John	37	10	5 00
Irvine, John	38	5	2 50
Irvine, John	98	10	5 00
Irvine, John	99	10	5 00
Irvine, John	100	10	5 00
Lockwood, J	57	4	2 00
Lusk, C D	4	5	2 50
Marshall, Chas	41	100	50 00
Marshall, Chas	42	50	25 00
Marshall, Chas	44	10	5 00
Marshall, F'dk	62	25	12 50
Marshall, F'dk	63	25	12 50
Marshall, F'dk	64	25	12 50
Marshall, F'dk	65	25	12 50
Marshall, F'dk	66	25	12 50
Marshall, F'dk	67	10	5 00
Marshall, F'dk	68	10	5 00
Marshall, F'dk	69	10	5 00
Marshall, F'dk	70	10	5 00
Marshall, F'dk	71	10	5 00
Morton, Benj	72	50	25 00
Morton, Benj	73	20	10 00
Morton, Benj	74	20	10 00
Morton, Benj	75	20	10 00
Morton, Benj	76	10	5 00
Morton, Benj	77	10	5 00
Morton, Benj	78	10	5 00
Morton, Benj	79	5	2 50
Morton, Benj	80	5	2 50
Morton, Benj	81	5	2 50
McGraw, —	60	2	1 00
Nahl, H W A	90	1	50
Odell, J	1	5	2 50
Parsons, S H	45	100	50 00
Parsons, S H	46	50	25 00
Parsons, S H	47	15	7 50
Poole, M M	30	10	5 00
Rogers, Geo P	50	5	2 50
Turner, Geo R	86	2	1 00
Waters, E D Jr	4	25	12 50
Waters, F C	14	25	12 50
Watrous, C	89	2	1 00
Wyman, H A	5	2	1 00

And in accordance with the laws of the State of California, and an order of the Board of Trustees, made on the 2d day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on SATURDAY, the 18th day of June, 1864, to pay said delinquent assessment thereon, together with the costs of advertising and the expenses of sale.

GEO. C. HARRIMAN, Secretary.

23-2t Office, No. 622 Clay street, San Francisco.

Orient Gold and Silver Mining Company. Location, Inyo District, Tulare County, California.

NOTICE.—There is delinquent upon the following described stock, on account of assessments of fifty cents per share, duly levied by order of the Board of Trustees of the above named Company, on the 30th day of October, 1863, the several amounts set opposite the names of respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amt.
E A Atwood	133	20	$10 00
John Albert	not issued	4	7 00
Allen Caswell	1	10	5 00
Allen Caswell	157	15	7 50
Allen Caswell	175	68	34 00
D C Norcross	not issued	33	16 50
D M Randall	not issued	32	16 00

And in accordance with law, and an order of the Board of Trustees, made on the 24th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the sales room of Jerome Rice & Co., No. 327, Montgomery street San Francisco on Wednesday, July 6th, 1864, at 12 o'clock, M., of said day, to pay said delinquent assessment thereon, together with costs of Advertising and expenses of the Sale.

J. F. MILLER, Secretary.

22-4t Office, 416 Washington Street, San Francisco.

A New and Valuable Book.

PROCESS OF SILVER AND GOLD EXTRACTION, BY OUIDO Kustel, Mining Engineer and Metallurgist, former manager of the Ophir Works, &c.; 350 pages octavo illustrated.

This admirable work has met with the highest commendations from the Press and Scientific men, as a clear and able exposition of the science as practised in California and Nevada Territory. It is written for the people in good plain English and finely illustrated.

Price—post paid—Cloth $6; Sheep $7.

A. ROMAN & CO.,
Booksellers, Importers and Publishers,
417 and 419 Montgomery street,
no30-tf San Francisco.

Pacific Mail Steamship Company.

THE FOLLOWING STEAMSHIPS WILL BE DESPATCHED FROM SAN FRANCISCO IN THE MONTH OF JUNE, 1864.

June 13—CONSTITUTION.....J. T. Watkins, Commander.
June 23—GOLDEN AGE.....Wm. F. Lapidge, Commander.

From Folsom street Wharf, at nine o'clock A. M., punctually,

FOR PANAMA.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company.

A. B. FORBES, Agent P. M. S. Co.,
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E. D. Farrington,
ASSAYER.

No. 430 Montgomery street, San Francisco. N. B. Assays guaranteed. 8v8-1m

G. E. MOORE,
Assayer and Analytical Chemist,

Having established a Chemical Laboratory, furnished with every requisite for delicate Analytical work, is prepared to execute the Assay and Analysis of Ores, Mineral Waters, Guanos, etc., with accuracy and dispatch. No 334 Montgomery Street.

REFERENCES:—Prof. J. D. Whitney, State Geologist, San Francisco; Alsop & Co., San Francisco; Sather & Church, San Francisco; John Parrott, San Francisco; D. O. Mills, Sacramento. 1tf

ASSAYS AND TRADE CHEMISTRY!
Promptness and Accuracy Secured
BY THE USE OF THE MOST IMPROVED METHODS OF ANALYSIS!

J. H. CHURCHILL, M. A.,
Consulting Chemist, [from Europe.]
21 Government Block, corner of Sansome and Washington Streets, San Francisco.

Refer to the Editors of this Journal.
☞ "HINTS FOR PROSPECTORS" free by post. 1tf

JOHN SCOTT,
METALLURGIC CHEMIST
—AND—
ASSAYER OF ORES, MINERALS AND METALS,
No. 507 Jackson Street, above Montgomery, San Francisco.

WORKING ASSAYS MADE ON LARGE OR SMALL QUANTITIES of Ore by the most approved methods, and instructions regarding the reduction of them, in general, given. Assaying of Ores, etc., taught, either by the wet or dry method. Silver Ores reduced by means of Electricity.
☞ Terms moderate, and all results guaranteed. 11v8-m

Kustel Brothers'
METTALLURGICAL WORKS;
Bryant Street, Between Third and Fourth, San Francisco.

☞ Office, 418 Montgomery Street. ☜

☞ Gold and Silver Ores Reduced.
Practical Assays made of Gold, Silver and Lead Ores.
19-tf Also Cupellation and Refining of Silver and Gold. ☜

NORTH BEACH
Quartz Mill and Reduction Works
ARE PREPARED TO WORK GOLD AND SILVER ORES, IN large or small quantities.
Working assays made of small lots, and all kinds of ores crushed at short notice.
Our new and complete Machinery, will enable us to give results fully up to the merits of rock.
WHEELER & THAYER, Proprietors.
C. C. JONES, Amalgamator.
San Francisco, Oct. 13, 1863. j2tf

HOWLAND, WOODARD & WILSON,
Copper Crushing and Grinding.

Attend to all kinds of Grinding & Crushing,
—SUCH AS—
COPPER ORES, MARBLE DUST, FIRE-BRICK DUST, DRUGS,
And Feed of all Kinds,
All of which will be Ground at the Shortest Notice.
—ALSO—
California Mineral Paint and Mineral Polishing Powder.
Works—No. 537 Market Street.
San Francisco, January 1st, 1864. 1-tf

DEETKEN & CO'S.,
METALLURGICAL WORKS,
FOR THE REDUCTION OF
SILVER AND GOLD ORES, TAILINGS, SULPHURETS, ARENIURETS, ETC., ETC. CUPELLATIONS AND REFINING OF SILVER AND GOLD,
Practical Assays for Silver and Gold, in small and large quantities, by Smelting, Chlorination and Pan Manipulation.
WORKS—On the San Bruno Road.
OFFICE—No. 315 Montgomery St., San Francisco. 16v8-tf

HUCKS & LAMBERT,
ORIGINAL MANUFACTURERS OF THE
Celebrated H. & L. Axle Grease,
Nutoma and Minna streets, San Francisco.

THIS COMPOSITION IS PECULIARLY ADAPTED FOR QUARTZ Mill Machinery, Heavy Bearings, etc., for which purpose it has a widely extended reputation. 22v8-3m

PRATER'S
PATENT CONCENTRATOR.

THE PROPRIETORS OF THIS NEW CONCENTRATOR, HAVING completed arrangements for its manufacture at the Fulton Foundry, in this city, now offers it to the public, with the fullest confidence that for the purpose for which it is designed
It Has No Equal in Use.

The principle of this machine, which is designed for a Concentrator exclusively, is entirely new. It is designed for separating finely divided quicksilver, amalgam and gold from the sands, and for concentrating and saving the sulphurets, and is to be placed behind all or any other machine in use. It is now in operation at
WHEELER & THAYER'S REDUCTION WORKS,
NORTH BEACH, SAN FRANCISCO,
To whom the Proprietors are permitted to refer, and where all interested in mining are respectfully invited to call and examine the best Concentrator in use.
This machine is now running on waste sands, from which it is taking out an average of 3½ pounds of quicksilver for each ton of sand. Orders or letters of enquiry may be addressed to
HUNGERFORD & PRATER, Proprietors.
San Francisco, April 1st, 1864. 14v8-tf

COMPLIANCE WITH LAW.

THE PHŒNIX
INSURANCE COMPANY,
—OF—
Hartford, Conn.,
HAS MADE FULL COMPLIANCE WITH THE STATE LAW BY DEPOSITING
$75,000
With Messrs. Banks & Co., Bankers, and holds
Controller's Certificate of Authority.

The patronage of the insuring public is respectfully solicited for this first-class American Insurance Company.

AGENTS IN ALL CITIES, TOWNS AND VILLAGES.

R. H. MAGILL,
General Agent.

CITY OFFICE—James King of William Building, Southwest corner of Montgomery and Commercial Streets, (Entrance No. 603 Commercial.)
L. B. DELL, Resident Agent.
I. FRANK, City Solicitor. 20-tf

A. S. HALLIDIE & CO.,
WIRE ROPE MANUFACTURERS.
Established 1857.
Office, No. 412 Clay street—Works, North Beach, SAN FRANCISCO.

After seven years' use throughout the State of California and the Pacific Coast generally, we can confidently recommend Wire Rope for
HOISTING FROM DEEP MINES,
GUY ROPES FOR DERRICKS, &c.,
STANDING RIGGING FOR SHIPS,
FERRY ROPES FOR FERRIES,
SASH CORD FOR WINDOW SASHES,
ETC., ETC., ETC., ETC., ETC., ETC
It being Cheaper, Stronger, Lighter and More Durable than any other kind of Rope, and not stretching or shrinking by atmospheric changes.

MINING COMPANIES, by using it for Hoisting Purposes, save 66 per cent. on their outlay for other ropes.

Wire Fencing Strand,
For fencing large parcels of land—permanently, economically and expeditiously. Manufactured in any length desired.
Pamphlets containing weight, strength and price, forwarded free application to the Manufacturers.

WIRE SUSPENSION BRIDGES AND AQUEDUCTS
We are prepared to erect, of any span and capacity, and take pleasure in referring those interested to the many structures of this kind built by us in California, Oregon and British Columbia, of span from 200 to 400 feet. 3-3m

Owen's River Canal Company.
CAPITAL STOCK.....$1,000,000
10,000 Shares.....$100 per Share.
A PORTION OF THIS STOCK IS NOW OFFERED TO THE PUBlic, and recommended as an investment.
Full Paid and Unassessable Stock,
Also Assessable Stock, can be obtained of A. J. DOWNER & CO., the authorized Agents of the Company,
406 Montgomery Street.

President.....R. S. WHIGHAM.
Secretary.....W. FISK HITCHCOCK.
Treasurer.....MONTGOMERY GODLEY.
Superintendent.....WILLIAM FLEMING.
Engineer.....J. E. CLAYTON
TRUSTEES:
R. S. WHIGHAM, formerly of Whigham's Mill,.....Nevada City.
WILLIAM FLEMING.....of San Francisco.
SPIER RIDDEL.....Puyling Teller of Parrott & Co's.
ISAAC SWAIN.....of A. J. Downer & Co.
WILLIAM P. FRATT.....of Nash & Fogg
Office of the Company 323 Montgomery Street. jltf

JOHN TAYLOR,
—IMPORTER AND DEALER IN—
Druggists' and Chemists' Glassware,
And a Full Assortment of Assayers' Articles.
—INCLUDING—
Bullion and Assay Ballances, Furnaces, Muffles, Crucibles, Cupels, Acids, Etc., Etc.
Also—A Full Assortment of Reagents.
JOHN TAYLOR,
2-tf 514 Washington St., Up Stairs, San Francisco

SQUARZA'S PUNCH.
FIRST PREMIUM
AT THE SACRAMENTO AGRICULTURAL STATE FAIR FOR THE YEAR 1862.
ALSO; FIRST PREMIUM
At the San Francisco Bay District Agricultural Fair, 1862.
MANUFACTORY, WHOLESALE AND RETAIL,
No. 44 Leidsdorff street, opposite the What Cheer House,
j2-tf San Francisco.

Mining Laws and Forms
JUST PUBLISHED, BY H. H. BANCROFT & CO., BEING A compilation of the Statutes of this State relating to Mining Corporations, Assessments, etc., with a digest of decisions of the Supreme Court and Forms of the Incorporation of Companies. Compiled by H. B. Congdon. 12mo., flexible cloth. $1,50. For sale at all the Bookstores. sep14-tf

To Quartz Miners.
ALL PERSONS INTERESTED IN MINING MACHINERY ARE invited to call at Donahue's Foundry and examine my improved Amalgamator. It is unquestionably superior to anything now known for amalgamating Silver and Gold. It works 1000 pounds at a time, and will amalgamate over three tons a day. By the motion of the revolving muller, the pulp is drawn through its centre and passes under it, between the grinding surfaces, to the circumference; from whence it passes again over the muller to the centre, through the holes and between the grinding surface to the circumference as before. Thus a constant circulation of the pulp is kept up, bringing the particles of ore again and again under the muller, and reducing the whole mass to an impalpable powder.
No quicksilver lies between the surfaces to be ground, but at the circumference and centre of the pan where the metal must pass through it as the pulp circulates.
A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S. Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.
sep21

WHEELER'S
Amalgamating and Separating Pans
IT IS ACKNOWLEDGED BY ALL WHO HAVE EXAMINED THE principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.
The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metal arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the triturating, this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.
Where these Pans have been introduced and operated by the side of others on sands from the same vat, the Wheeler Pans have uniformly gained a large percentage of metals, over its competitors, as well as a still larger percentage in the amount of work performed.
***These Pans may be seen in daily operation at the Miners' Foundry, on First street, San Francisco, where all interested are invited to call and examine for themselves.
no16-tf ZENAS WHEELER.

LLOYD'S NEW AMALGAMATOR
Is a Complete Success.
THE RESULTS OF THE WORK DONE BY IT DURING THE past week are:—From 300 pounds of tailings from Volcano, Amador county, worked for Mr. C. B. Culver, was obtained 6 oz. 12 dwts., equal to $40 to the ton of 2,000 pounds. The original ore was worked by the old Mexican arastra. From 6 0 pounds of tailings, the original ore having been worked by Professor Ryerson's Superheated Steam Machine, was obtained 15¼ ozs., Ryerson's machine having only got 5 ozs. to the ton from the ore.
Result from 50 pounds of ore from Amador county, worked for Mr. H. F. Williams, of Graves & Williams, of the Pacific Fruit Market, in this city, was obtained:
Gold.....$73 33
Silver.....42
To the Ton.....$73 75
The assay being made by Messrs. Molitor & Co.
From 20 pounds of the same ore, worked for the same party, was obtained:
Gold.....$63 30
Silver.....04
To the Ton.....$63 34
Assay made by Kellogg, Hewston & Co.
The mine from which the above ore was taken has turned out over $10,000 gold and silver, and the average yield as worked upon the spot, has only been $6 to the ton. Varney's Pan has obtained as high as $ 5 to the ton from this ore—the difference in favor of Lloyd's Amalgamator being over Varney's Pan, $53 51.2 per ton; and over the works at the mill, $62 54.2 per ton. Result from 15 pounds of ore from Queen City Company's claims, El Dorado Canon, Arizona Territory, worked for Mr. T. Nudge, who obtained: Gold, $1.19, Silver, $1.52, amounting to $2.71-100—equal to $361.33-100 to the ton—the assay being made by Messrs. Molitor & Co. Mr. Deetken, at his metallurgical works in this city, obtained by the Varney Pan $ 54 to the ton—the difference in favor of Lloyd being $207.33-100 to the ton.
Result of 68 pounds of ore from the Lady of the Lake Company, Leland Lode, San Francisco District, Arizona Territory, worked for C. W. C. Rowell, was obtained $7.44 in Gold, $0.25 in Silver—$7.69—equal to $2 6.18-100. Assay made by Messrs. Molitor & Co. 100 pounds of the same ore, worked by Wheeler's Pan, and assayed by Kellogg, Hewston & Co., yielded $7.58-00—equal to $111.60 to the ton. Difference in favor of Lloyd being $114.58-100 to the ton. Lloyd's is undoubtedly the best Amalgamator yet introduced, and is certain to supersede all other Amalgamators now in use. Communications for Mr. Lloyd, either for assaying or other machines, can be addressed to the care of Messrs. Kustell Brothers, Metallurgical Works, Bryant street, between Third and Fourth streets, San Francisco. 20v8-3m

Hepburn & Peterson's
AMALGAMATOR.
THE SUBSCRIBERS WOULD CALL THE ATTENTION OF THE Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from
Gold and Silver Ores,
Manufactured and exhibited at the Vulcan Iron Works, Nos. 137 and 139 First street, San Francisco.
These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.
☞ This Amalgamator may be seen in operation at Kustel Bros. works, Bryant St. etbween 3d and 4th.
[Illustrated in the Mining and Scientific Press, April 9th, 1864.]
nov3 3m* HEPBURN & PETERSON.

GEO. A. METCALF. R. S. HUTCHINSON
METCALF & HUTCHINSON'S
PHOTOGRAPHIC GALLERY,
650 Washington St. Three doors below Kearney, San Francisco.
HAVING REFITTED THE ABOVE ROOMS THE FIRM ARE now prepared to furnish the public with a superior style a Picture, at a lower price than ever before offered in the city.
CARD PICTURES.
As we have every facility for producing these beautiful picture in all their different varieties, we have reduced the price to
THREE DOLLARS PER DOZEN!
Large sized Photographs $3—Extra copies $1 each.
AMBROTYPES in all Styles and Prices.
OLD PICTURES copied with care and accuracy, in any style desired. Particular attention paid to pictures of children.
Pictures painted in Oil or Water Colors, and retouched in Indian Ink by a competent artist. aug

Ore Bags.
10 000 HAND SEWED GOLD AND SILVER ORE BAGS, 100 lbs each. 15,000 Chickou Gunny Pocket Bags, suitable for Copper Ore, 125 lbs each. For sale in lots, by
REYNOLDS, HOWARD & FORD,
11v8-m 313 and 315 Davis Street, San Francisco!

Rubicon Gold & Silver Mining Company No. 4.—Keys District, Owens River, Mono county, California.

Notice is hereby given that in accordance with the Laws of the State of California, and an order duly made by the Board of Trustees of the Rubicon Gold and Silver Mining Company, No. 4, there will be sold at Public Auction, to the highest bidder for cash, in United States Gold Coin, on the 17th day of June, 1864, at 11 o'clock A. M. of that day, at the office of the Company, No. 7 and 8 third floor, No. 302 Montgomery street, San Francisco, so many shares of the Capital Stock of said Company standing in the names of the following persons, or shareholders, as will be necessary for the payment of Assessment No. 5 of ten (10) cents per share, duly levied thereon April 18, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said assessment and accruing charges are previously paid.

Names.	No. Certificates.	No. Shares.	Amt.
Aitkin, Samuel	190	10	$1 00
Adams, Blum & Co,	293	50	5 00
Adams, W J	294	25	2 50
Adams, W J	535	200	20 00
Adams, W J	535, 537—ea 100	200	20 00
Adsms, W J	638	137	13 70
Aibisher, B	325	5	50
Brusch, H G	241	13	1 30
Blain, J D	79, 80, 81, 82—ea 25	100	10 00
Baker, E G	173	40	4 00
Brasch, H G	628	50	5 00
Brasch, H G	630	10	1 00
Boyer, W L	284	4	40
Bennet, George	696	25	2 50
Blakely, R F	441	12	1 20
Bain, Robert	534	50	5 00
Beckford, D R	531	50	5 00
Bland, Adam	no cer	150	15 00
Bush, Henry	no cer	150	15 00
Cook, Sarah	38	25	2 50
Cook, Sarah	no cer	125	12 50
Clark, A N	118	5	50
Carr, J T	122	55	5 50
Carr, J T	no cer	75	7 50
Cushman, C S	318, 319—ea 25	50	5 00
Chase, H A	365	5	50
Chester, Henry	476	20	2 00
Chester, Henry	573	85	8 50
Chester, Henry	637	6	60
Chester, Henry	638	39	3 90
Chester, Henry	667	150	15 00
Chester, Henry	no cer	150	15 00
Campbell, Charles	458	10	1 00
Cunningham, Z W	440	50	5 00
Chart, Obed	548	37	3 70
Clark, G G	520, 521—ea 25	50	5 00
Cromwell, J L	639	10	1 00
Cassell, J S	688	50	6 00
Currier, Benjamin	no cer	150	15 00
Carter, W P	no cer	75	7 50
Doran, David	34	25	2 50
Doran, David	181	50	5 00
Doran, David	182, 183—ea 10	20	2 00
Doran, David	186	20	2 00
Derky, Charles	120	2½	25
Dore, Benjamin	125	25	2 50
Donohoe, William	238	5	50
Dunscomb, Edw	526	25	2 50
Dougart, J J	570	7	70
Dnud, Philo	592, 593—ea 9	18	1 80
Doud, Philo	no cer	132	13 20
Doscher, Henry	no cer	143	14 30
Diggings, Wesley	no cer	1400	140 00
Diggings, Wesley	726	100	10 00
Davis, W G	399	50	5 00
Davis, W G	485	55	5 50
Davis, W G	598, 602, 603, 604, 605, 606—ea 25	150	15 00
Davis, W G	669, 691—ea 12	24	2 40
Davis, W G	573	13	1 30
Davis, W G	no cer	33	3 30
Evans, John	2	4	40
Etique, J P	337	50	5 00
Etique, J P	no cer	95	9 50
Errickson, E estate of	327, 494, 495—ea 25	75	7 50
Errickson, E estate of	328	11	1 10
Errickson, E estate of	689	12	1 20
Eichel, C	707	4	40
Fogerty, Pat	203	10	1 00
Fellows, D A	514	25	2 50
Fogler, Jos	136, 137, 213—ea 5	15	1 50
Fogler, Jos	211	10	1 00
Fogler, Jos	214	95	9 50
Fillebrown, Jas	no cer	300	30 00
Gerrish, P P	542	12	1 20
Genung, A M	no cer	150	15 00
Hall, H B	37	140	14 00
Hall, H B	no cer	10	1 00
Hughes, Rienzi	86, 87—ea 5	10	1 00
Hathaway, Samual	170	25	2 50
Ham, C W	133	5	50
Ham, C W	no cer	145	14 50
Ham, S A	no cer	150	15 00
Harbinger, Carl	119	2½	25
Holm, H	272	10	1 00
Holm, H	274	20	2 00
Holm, H	275, 276—ea 25	50	5 00
Holm, H	277	50	5 00
Hall, Alonzo	305	4	40
Hall, Alonzo	no cer	146	14 60
Hayden, J H	344	25	2 50
Hyde, William H	no cer	150	15 00
Henderson, Thomas	587, 588—ea 10	20	2 00
Henderson, Thomas	589	5	50
Harris, J F	640, 700—ea 50	100	10 00
Harris, J F	641, 642, 643—ea 25	75	7 50
Johnson, J B	10, 222, 223, 224, 225—ea 25	125	12 50
Johnson, J B	no cer	1305	130 05
Jeffress, John	233	6	60
Jeffress, John	234	12	1 20
Jeffress, John	no cer	93	9 30
Kirby, William L	no cer	85	8 50
Kennedy, John	230	25	2 50
Kennedy, John	no cer	119	11 90
Knoedler, John	236	14	1 40
Knoedler, John	237	50	5 00
Kneedler, John	332	5	50
Kneedler, John	no cer	56	5 50
Kennedy, Thomas	316, 390—ea 5	10	1 00
Kennedy, Thomas	no cer	140	14 00
Killian, F	645	7	70
Kennedy, James	no cer	150	15 00
Kimball, M H	no cer	42	4 20
Lane, Levi C	14	100	10 00
Lane, Levi C	15	25	2 50
Lovejoy, A J	61	25	2 50
Lovejoy, A J	252	12	1 20
Louterwasser, C	177	25	2 50
Louterwasser, C	no cer	235	23 50
Lewison, Louis	164, 165, 166—ea 100	300	30 00
Loudon, William	310	5	50
Les, Charles	472	3	30
Lee, Charles	602	30	3 00
Lee, Charles	549	13	1 30
Lee, Charles	579	20	2 00
Laundry, Lewis	471	12	1 20
Lyon, William F	479	28	2 80
Lyon, Wm F	704	17¼	1 75
Luelling, W H	517	240	24 00
Long, E estate of	487	315	31 50
Long, E estate of	488	150	15 00
Lovely, Horace	625	25	2 50
Lord, A J	647	12	1 20
Louterwasser, F P	706	12	1 20
Martin, Wheeler	35	15	1 50
Martin, Wheeler	39, 40—ea 20	40	4 00
Martin, Wheeler	no cer	675	67 50
Mitchell, D H	311	25	2 50
Mitchell, D H	419, 420, 436—ea 12	36	3 60
Mitchell, D H	432	10	1 00
McCort, Robert	30	75	7 50
Main, Emma F	56	5	50
Myers, Pinkus	77	75	7 50
Motteler, Fred	356	12	1 20
Motteler, Fred	358, 359, 360, 361, 362—ea 20	100	10 00
Motteler, Fred	363	21	2 10
Mahan, H H	157	25	2 50
Mallan, John	204	5	50
Molt, John P	219	50	5 00
Miller, P C	612, 613, 614—ea 25	75	7 50
Miller, P C	no cer	193	19 30
Maybew, G S	383	5	50
Mayhew, G S	no cer	20	2 00
Merrill, J L	453	25	2 50
Merrill, J L	454	7	70
Martel, John	482	25	2 50
Muhm, Anna	646	75	7 50
Miller, M M	581	150	15 00
Mason, J H	594	12	1 20
Moore, J J	681	25	2 50
Mciver, John	705	10	1 00
Myrick, J W	no cer	150	15 00
Norman, D	411	25	2 50
Noble, G W	567	20	2 00
O'Connell, James	247, 248—ea 50	100	10 00
O'Connell, James	249, 250—ea 25	50	5 00
Oherer, Jos	no cer—150 bl	50	7 60
Porter, Thomas H	162	10	1 00
Porter, Thomas H	no cer	105	10 50
Patterson, John	367	20	2 00
Patterson, John	468	150	15 00
Plummer, J W	386	10	1 00
Perkin, William	445	19	1 90
Picket, E W	559	150	15 00
Pervear, T J	21	53	5 30
Pervear, T J	31	75	7 50
Pervear, T J	243	15	1 50
Pervear, T J	377	3	30
Raymond, Charles	252	25	2 50
Rath, Elias	355	5	50
Richards, I	406	75	7 50
Reas, J E	388	20	2 00
Reas, J E	703	25	2 50
Reas, H M	676	25	2 50
Ramsey, Peter	503	5	50
Robinson, W E	617, 618, 619, 620—ea 25	100	10 00
Rundlett, C F	621	5	50
Riley, C C	664	75	7 50
Reynolds, John	no cer	450	45 00
Santif, N	101	150	15 00
Santif, Mary	102	75	7 50
Santif, Mary	103, 104, 105—ea 25	75	7 50
Santif, Jos	no cer	150	15 00
Still, Robert	463	50	5 00
Still, Robert	715	71	7 10
Stewart, James	187	15	1 50
Schmidt, J C	484	134	13 40
Smith, Wm	193, 194, 195, 196, 197, 198—ea 25	150	15 00
Spalding, C A	309, 354—ea 25	50	5 00
Spalding, C A	352, 354—ea 50	100	10 00
Sutherland, Jacob	320	50	5 00
Sanchez, F	461, 462—ea 12	24	2 40
Sanchez, F	523	13	1 30
Spencer, O W	524	75	7 50
Spencer, O W	615	50	5 00
Spencer, O W	526	18	1 80
Spencer, O W	no cer	1357	135 70
Seiver, W H	525	25	2 50
Swain, R R	607	25	2 50
Stadtfelt, Mary	627	7	70
Silver, Frank	658	15	1 50
Simpson, Georga	555	12	1 20
Smith, Richard	682	25	2 50
Shoemaker, F	725	73	7 30
Tingstrom, A	no cer	138	13 80
Tunock, And	252	2	20
Tyler, B F	285	3	30
Terhune, C P	289	10	1 00
Taylor, John	349	10	1 00
Taylor, John R	572	15	1 20
Van Hagen, J P	93	25	2 50
Van Hagen, J P	496, 497, 498, 499, 500, 501—ea 12	72	7 20
Van Hagen, J P	no cer	1140	114 00
Von Gundy, Jos	167, 168—ea 20	40	4 00
Von Gundy, Jos	199	12	1 20
Von Gundy, Jos	no cer	398	39 80
Van Hagen, J B	343	25	2 50
Von Poser, H	522	12	1 20
Van Vleck, D	666	250	25 00
Waiawright, William	75	10	1 00
Wainwright, William	423	55	5 50
Winslow, E G	393	27½	2 75
Wunenberg, N H	108	25	2 50
Wunenberg, N H	110	50	5 00
Wunenberg, N H	112, 133—ea 5	10	1 00
Wunenberg, N H	395	30	3 00
Wickherry, F	713	100	10 00
Wickherry, F	716	175	17 50
Ware, Jos	221	2	20
Ware, Jos	577	6	60
Ware, Jos	662, 663—ea 12	24	2 40
Ware, Jos	710	75	7 50
Ware, Jos	719	25	2 50
Ware, Jos	no cer	129	12 90
Weston, D S	347	2½	25
Wyman, F C	387	20	2 00
Welch, J P	431	10	1 00
Wright, Henry	460	25	2 50
Wood, William C	474	25	50
Webster, B F	483	25	2 50
Went, H	568, 569—ea 50	100	10 00
Walmsey, W W	585	5	50
Young, Richard	32	75	7 50
Young, Richard	no cer	25	2 50

By order of the Board of Trustees.

J. P. VAN HAGEN, Secretary.

Office, No. 302 Montgomery street, No. 7 and 8, 3d floor.

San Francisco, May 26, 1864. 22-2t

For Sending East, no more valuable or appropriate publication can be selected than the MINING AND SCIENTIFIC PRESS. For sale by the principal newsagents.

Nooaday Copper Gold & Silver Mining Company, Clayton District, Contra Costa County California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 6th day of May, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certifs.	No. Shares.	Amt.
W G Wendall	11	50	$10 00
E C Skinner	12	50	10 00
E C Skinner	13	100	20 00
S J Tennant	24	50	10 00
S J Tennant	25	50	10 00
S J Tennant	26	50	10 00
S J Tennant	27	50	10 00
Orin Swan	32	100	20 00
Eban Jordan	34	20	4 00
Nicholas Larbig	49	50	10 00
E B Mastick	67	200	40 00
P Q Brown	79	50	10 00
John Taylor	Cert. not issued	200	40 00
John Moul	140	25	5 00
John Moul	141	50	10 00
Nancy Patterson	136	100	20 00
Henry Williamson	124	100	20 00
F A Brewer	121	2	40
Michael Butler	119	25	5 00
Caleb Morgan	118	25	5 00
G W Morgan	104	13	2 60
G W Morgan	103	12	2 40
Nicholas Larbig	50	50	10 00

And in accordance with law, and an order of the Board of Trustees, made on the 5th day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on the 22d day of June, 1864, at the hour of 11 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

L. E. MOROAN, Secretary.

Office, N. E. corner of Bush and Kearny streets, San Francisco.

San Francisco, June 4th, 1864. 23-2t

Salt Spring Valley Mining Company, Salt Spring Valley, Calaveras County, California.

NOTICE.—There is delinquent upon the following described stock on account of assessments levied April 11th, 1864, and assessment levied previous thereto, the several amounts set opposite the name of the respective shareholders, as follows:

Names.	No. Certf.	Shares.	Am't.
Edward Cornitius,	28	25	2 50
R N Dean,	unissued	150	15 00
J W Lawson,	3	2	20
J W Lawson,	31	5	50
J W Lawson,	33	52	5 20
George Lytle,	unissued	150	60 00
Joseph McKenzie,	unissued	100	10 00
J V Martin,	34	24	2 40
Levi Patch,	unissued	18	5 95
J H Shirley,	54	26	2 60
J H Shirley,	55	5	50
J H Shirley,	unissued	20	2 00
Wm H Woodson,	unissued	75	48 25

And in accordance with law, and an order of the Board of Trustees, made on the 19th day of May 1864, so many shares of each parcel of said stock as may be necessary, will be sold in Salt Spring Valley, at J. Cohen's store, on the 11th day of June next, at 2 o'clock, P. M. of said day, to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

VICTOR ROSENBURG, Secretary.

Jenny Lind, May, 24th, 1864. 22-2t

United States Gold and Silver Mining Company.— Mine located in Lander county, Nevada Territory.

NOTICE.—There are delinquent upon the following described stock, on account of Assessment No. 1, levied December 23d, 1863, of $24 per original share, and Assessment No. 2, levied February 6th, 1864, of $40 per original share, the several amounts set opposite the names of the respective shareholders, as follows:

ASSESSMENT NUMBER ONE.

Names.	No. Feet.	Amount.
E Lashier,	400—stock not issued	$12 00
J S Schuster,	332—stock not issued	9 96
George Baumer,	334 - stock not issued	10 02
Henry Schutz,	334—stock not issued	10 02
D B James,	100—stock not issued	3 00
D Tourtellntta,	200—stock not issued	6 00

ASSESSMENT NUMBER TWO.

Fisher M Clarke,	400—stock not issued	20 00
F Lashier,	400—stock not issued	20 00
R R Fuller,	334—stock not issued	16 70
J S Schuster,	332—stock not issued	16 70
George Baumer,	334—stock not issued	16 70
Henry Schutz,	334—stock not issued	16 70
D B James,	100—stock not issued	5 00
D Tourtellntta,	200—stock not issued	10 00

And in accordance with law, and an order of the Board of Trustees, made on the twentieth day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the auction rooms of John Middleton & Son, No. 400 Montgomery street, San Francisco, on MONDAY, the 20th day of June next, at 12 o'clock M. of said day, to pay the delinquent assessments thereon, together with costs of advertising and expenses of the sale.

T. L. BIBBINS, Secretary.

Office, No. 302 Montgomery street, San Francisco.

San Francisco, May 20th, 1864. 21-tf

Diamond Mining Company, Santa Catalina Island, California.

NOTICE.—There is delinquent upon the following described stock, on account of assessment levied on the 27th day of January, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amt.
C H Taft	not issued	88	$13 20
J D Nichols,	22	88 bal	2 08
P Ide,	55	83 bal	3 08
J M Merrill,	not issued	88	13 20
S C Gardner,	not issued	88	13 20
W Diggings,	not issued	88 bal	8 20
Hicks & Carson,	40, 41, 42	88 bal	9 15
Wm J Woodley,	78	50 bal	1 23
Henry Bush,	not issued	88	13 20
Henry Bush, 6rst assessment, levied Jan. 2, 1864,			8 80

And in accordance with law, and an order of the Board of Trustees, made on the 31st day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the office of the Secretary, on WEDNESDAY, the 6th day of July, 1864, at 12 o'clock, M., to pay said delinquent assessments thereon, together with costs of advertising and expenses of sale.

(23-4t) A. G. WOOD, Secretary.

Office, 240 Montgomery street, No. 4, 2 floor, San Francisco.

Charter Oak Mining Company, Santa Catalina Island, California.

NOTICE.—There is delinquent upon the following described stock on account of assessments levied on the 27th day of January, 1864, the several amounts set opposite the names of the respective shareholders, as follows, to wit:—

Names.	No. Certif.	No. Shares.		Amt.
C H Taft	not issued	96		$14 40
J D Nichols	25	86	bal	3 27
P Ide	61	91	bal	4 87
I M Merrill	not issued	96		14 40
S C Gardner	not issued	96		14 40
W Diggins	not issued	96	bal	9 40
Hicks & Carson	45, 44, 46	48	bal	10 84
Wm J Woodley	89	60	bal	3 23
Henry Bush	not issued	96		14 40
Henry Bush	first assmt levied Jany 2d			9 60

And in accordance with law, and on order of the Board of Trustees made on the 31st day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold at the office of the Secretary, on Wednesday, the 6th day of July, 1864, at 12 o'clock M. to pay said delinquent assessments theron, together with costs of advertising and expenses of sale.

A. G. WOOD, Secretary.

23-4t 240 Montgomery St., No. 4, 2d. Floor.

North Star Mining Company, Santa Catalina Island, California.

NOTICE.—There are delinquent, upon the following described Stock, on account of assessments levied, on the 27th day of January, 1864, the several amounts set opposite the names of the respective Shareholders as follows, to wit:

Names.	No. Certif.	No. Shares.		Amt
C H Taft	not issued	144		$21 60
J D Nichols	29	144	bal.	10 47
P Ide	74	133	bal.	12 08
I M Morrill	not issued	144		21 60
S C Gardner	not issued	144		21 60
W Diggins	not issued	144	bal.	16 69
Hicks & Carson	52, 53, 54, 55	144	bal.	17 55
Wm J. Woodley	101	75	bal.	18 23
Henry Bush	not issued	144	bal.	21 60
Henry Bush	First assessment levied Jan. 2			14 40

And in accordance with law, and an order of the Board of Trustees, made on the 31st day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the office of the Secretary, on Wednesday, the 6th day of July, at 12 o'clock, M., to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

A. G. WOOD, Secretary.

23-4t 240 Montgomery street, No. 4, 2d floor, San Francisco.

Wilson Gold and Silver Mining Company.—Location, Echo District, Humboldt county, Nevada Territory.

NOTICE.—There are delinquent, upon the following described stock, on account of Assessments duly levied by order of the Board of Trustees, on the first day of October, 1863, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amt.
H. G. Blasdell	not issued	300	$300 00
J. W. Flie	not issued	300	300 00
Abner Wade	17, 18, 19, 20, 21, of 20 shs each.	100	100 00
Abner Wade	23, 24, 25, of 10 shs each.	30	30 00
Abner Wade	26, 27, of 5 shs each.	10	10 00
L. N. Thorne	not issued	75	75 00
Robt. J. Fulton	1, 2, 3, 4, 5, of 10 shs each.	50	50 00
Robt. J. Fulton	6, 7, 8, 9, of 25 shs each.	100	100 00
E. C. Palmer	33 bal due on 37½		28 15
C. A. Uhrig	47 37½		37 50
Thomas Mullehy	32	5	5 00
Arthur Haine	36	12	12 00
John Pullee	101	10	10 00
D. P. Winne	102, 103, of 25 shs each.	50	50 00
Edward A. Morse	110	10	10 00
H. F. Nettleton	61, 62, 63, 64, 65, of, 10 shs each.	50	50 00
J. G. Hanson	79, 80, 81, 82, of 50 shs each.	200	200 00
C. M. Batchelder	10	10	10 00
Mrs. E. W. Carey	11	10	10 00
Emma Patten	13	10	10 00
John Brennan	14	10	10 00
Mrs. E. A. Baxter	15	10	10 00
D. H. Kinsey	16	20	20 00
John C. Ing	33	10	10 00
R. G. Carlyle		50	60 00
S. Tyler		120	120 00
B. C. Whitman	75, 76, 77, of 25 shs each. bal due on 75		40 00

Therefore, in accordance with law, and on order of the Board of Trustees, made on the 2d day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on SATURDAY, July 2d, 1864, at 12 o'clock M., of said day, to pay said delinquent assessments (one dollar per share) thereon, together with costs of advertisement and expenses of the sale.

J. F. MILLER, Secretary.

Office, No. 416 Washington street, San Francisco.

N. B.—Payments may be made at any time before the 29th day of June, to A. GAUCHAT, at the mine, or to the Secretary, at his office in San Francisco. (21-4t) J. F. MILLER, Secretary.

Wall Street Gold and Silver Mining Company, Reese River District, Lander County, N. T.

NOTICE.—There are delinquent, upon the following described Stock, on account of Assesment levied on the 3d day of May, 1864, the several amounts set opposite the names of the respective Shareholders, as follows:

Names.	No. Certif.	No. Shares.	Amt.
R C Wilcox	15	20	$10 00
R C Wilcox	26	20	10 00
R C Wilcox	28	20	10 00
R C Wilcox	29	20	10 00
R C Wilcox	45	5	2 50
R C Wilcox	53	10	5 00
R C Wilcox	54	10	5 00
R C Wilcox	55	20	10 00
R C Wilcox	77	10	6 00
A J Hedrick	56	20	10 00
A J Hedrick	57	20	10 00
A J Hedrick	58	10	5 00
R B Turer	40	10	5 00
Wm H Glascock	46	10	5 00

And in accordance with law, and on order of the Board of Trustees, made on the 3d day of May, 1864, so many Shares of each parcel of said Stock as may be necessary, will be sold at the office of the company on the 18th day of June 1864, at the hour of 11 o'clock, A. M., of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

WM. H. DUDLEY, Secretary.

23-2t Office, No. 528 Montgomery street, San Francisco.

Two Good Canvassing Agents can find profitable employment by calling at this office. None but active and competent men need apply.

Lord Byron Gold and Silver Mining Company.—Location: Devil's Gate District, Nevada Territory.

NOTICE.—There are delinquent upon the following described stock, on account of Assessment levied on the sixteenth day of April, 1864 the several amounts set opposite the names of the respective shareholders, as follows—

Names.	No. Cert.	No. Shares.	Amt.
Booth, L. A.	79	50	$50 00
Barker, S.	94	1	1 00
Berry, R. W.	2	13	13 00
Berry, R. W.	64	30	30 00
Berry, R. W.	105	10	10 00
Brown, B. T.	8	25	25 00
Brown, B. T.	9	25	25 00
Brown, B. T.	10	25	25 00
Brown, B. T.	107	12	12 00
Brown, B. T.	108	10	10 00
Brown, B. T.	109	10	10 00
Brown, B. T.	110	5	5 00
Brown, B. T.	59	20	20 00
Bones, J. W.	102	13	13 00
Bagge, Theo. F.	35	25	25 00
Bonestell, L. H.	116	5	5 00
Bonestell, L. H.	117	10	10 00
Bonestell, L. H.	118	10	10 00
Bonestell, L. H.	119	10	10 00
Bonestell, L. H.	120	10	10 00
Card, R.	39	25	25 00
Card, R.	40	100	100 00
Dilley, James S.	111	20	20 00
Dyer, Wm. D.	101	15	15 00
Graham, Edward	93	4	4 00
Hall, R.	91	20	20 00
Hall, R.	92	8	8 00
Hudson, Geo. A.	50	50	50 00
Holland, Patrick	67	20	20 00
Holland, Patrick	68	20	20 00
Holland, Patrick	69	10	10 00
Knapp, W. A.	98	15	15 00
Knapp, W. A.	114	10	10 00
Knapp, W. A.	115	10	10 00
Lawton, Irving	106	15	15 00
Lansing, G. J.	70	10	10 00
Malins, J. P.	112	15	15 00
Malns, J. P.	113	10	10 00
Morgan, F.	27	25	25 00
Morgan, F.	57	25	25 00
Morgan, F.	76	10	10 00
Morgan, F.	99	25	25 00
McNamara, Thos.	51	12	12 00
McNamara, Thos.	55	17	17 00
McNamara, G. S.	104	25	25 00
Murphy, Patrick	37	25	25 00
Mikkelson, R.	44	5	5 00
McNutt, C. W.	63	20	20 00
Nason, R. H.	23	10	10 00
Nason, R. H.	24	10	10 00
Nason, R. H.	25	5	5 00
Nason, R. H.	100	25	25 00
Nichols, Mary A.	43	50	50 00
Olney, C. C. (Trustee)	36	25	25 00
Olsen, Peter C.	61	10	10 00
Price, Miss G.	45	5	5 00
Pride, Wm. H.	95	20	20 00
Pride, Wm. H.	96	20	20 00
Pride, Wm. H.	97	10	10 00
Sheehan, Maurice	38	50	50 00
Taylor, L. W.	31	20	20 00
Taylor, L. W.	32	20	20 00
Taylor, L. W.	33	20	20 00
Taylor, L. W.	34	20	20 00
Warren, Miss M. R.	46	5	5 00

And in accordance with law, and on order of the Board of Trustees, made on the 16th day of April, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the auction room of Jno. Middleton & Son, No. 401 Montgomery street, San Francisco, on SATURDAY, the 4th day of June, 1864, at the hour of 12 o'clock, M., of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

H. B. CONGDON, Secretary.

21-3t Office, No. 620 Washington street, Boom 3, San Francisco.

The above sale is postponed until Tuesday, June, 14th, 1864, at the same hour and place. By order of the Board of Trustees.

23-2t H. B. CONGDON, Sec'y.

Royal Eagle and Cliff Gold and Silver Mining Company, Gold Hill Mining District, Storey county, Nevada Territory. —Office No. 493 Washington street, San Francisco.

Notice is hereby given, that, in accordance with an order duly made by the Board of Trustees of the Royal Eagle and Cliff Gold and Silver Mining Company, there will be sold, at Public Auction, by Jerome Rice & Co., at their salesrooms, No. 327 Montgomery street, San Francisco, on WEDNESDAY, June 15, 1864, at 12 o'clock M. to the highest bidder, for cash, in U. S. gold coin, so many shares of the capital stock of the said Company, standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay all assessments now delinquent thereon, together with cost of advertising and all accruing charges, unless previously paid:

Stockholders.	No. Asst.	No. Certificate.	Shares.	Amt.
Cesar Roch	3 and 4	10, 12, 15, 17	30	$45 00
A. Levy	3 and 4	8	5	7 50
L. Levy	3 and 4	23	5	7 50
C. Kornfield	3 and 4	96, 199	33	49 50
P. E. P. Davan	3 and 4	181, 182, 189, 190, 191	103	154 50
Piere Thiebaut	4	31, 33, 34, 118	30½	31 00
C. Mery	4	39, 146, 148	18	18 00
Dominique Goutin	4	40, 112	12	12 00
Champel Resi	4	41, 94, 95, 38	30	30 00
P. X. Vilin	3 and 4	111, 112, 113	15	22 50
Marie Courier	3 and 4	44	10	15 00
J. Lamolle	4	52	15	15 00
B. Lamolle	4	53	12	12 00
E. Ward	2, 3 and 4	54	5	12 50
J. Mayer	4	55	15	15 00
A. Carre	4	57, 149	13	13 00
Rene Gourdon	3 and 4	57, 60	50	75 00
Alexis Leroux	3 and 4	68	5	7 50
John Delbo	3 and 4	76	25	37 50
A. Reiso	4	80	25	25 00
H. Haricourt	3 and 4	84	8	12 00
Cordes Bertrand	3 and 4	85	17	25 50
Wm. Remy	3 and 4	101, 102	25	37 50
H. Bouc	3 and 4	7	7	10 50
J. Lesillier	4	119	25	25 00
H. Van Every	3 and 4	139	20	30 00
J. Filliot	2, 3 and 4	—	5	12 50
J. H. Vievier	3 and 4	—	22	33 00
A. Gattickcr	3 and 4	—	25	37 50
A. Secretan	3 and 4	—	5	7 50
L. Noel	3 and 4	—	100	150 00
J. Carroll	2, 3 and 4	194	10	25 00
C. Duval	3 and 4	193	25	37 50
J. Austine	1, 2, 3 and 4	—	25	135 00
Victor Ansous	3 and 4	185	10	15 00
Caroline Petetin	2, 3 and 4	110	10	25 00
Alfred Turrel	3 and 4	140	10	15 00
Marie V. Hourcade	3 and 4	142	5	7 50
Caroline Goux	3 and 4	143, 168	8	12 00
P. J. Minot	3 and 4	144, 167	12	18 00
Napoleon Denis	4	155	10	10 00
Cazeaux & Collins	3 and 4	164	5	7 50
C. Aquillon	3 and 4	152	15	22 50
J. P. Cassady	4	161	10	10 00
L. M. Onfray	3 and 4	170	5	7 50
J. Mandot	3 and 4	183	25	37 50
D. Bigarel	4	186	10	10 00
John Dalmas	4	184	25	25 00
F. Boneati	3 and 4	195	15	22 50
M. Burnet	3 and 4	196	10	15 00
Th. Thiele	3 and 4	200	20	30 00
W. R. Maurice	3 and 4	201	15	22 50

By order of the Board of Trustees.

29-5t ARNAVON, Secretary.

San Francisco, May 14th, 1864.

Tellurium Gold and Silver Mining Company, Pine Grove, Amador county, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 21st day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate:	No. Shares.	Amt.
Atkinson, Nathan,	245	100	$100
Beckman, Otto	19	5	5
Boylan, Joseph	26	20	20
Boylan, Joseph	27	20	20
Boylan, Joseph	28	20	20
Boylan, Joseph	29	20	20
Boylan, Joseph	30	20	20
Beers, J B	257	162	162
Bufford, J L	91	50	50
Bartlett, C	110	5	5
Cushing, J J	155	50	50
Cushing, J J	200	35	35
Dyer, W D	49	5	5
Dyer, W D	50	5	5
Gay, A C	256	53	53
Hughes, Chas	134	5	5
Kendall, S	183	5	5
Kendall, S	184	5	5
Kendall, S	190	5	5
Kendall, S	192	5	5
Lartigea, P	152	10	10
Mathieu, A	138	10	10
Massard Jules	151	10	10
Marguerier, G	159	10	10
Maubec, L	Bal of 164	5	5
Noyes, Nathan	136	5	5
Noble, Murray	237	5	5
Pardow, Geo	88	15	15
Senter M S	51	5	5
Senter M S	52	3	3
Senter M S	53	2	2
Stevenot G K	156	50	50
Woodbury C E	247	5	5
Woodbury C E	248	5	5
Woodbury C E	249	5	5
Wilkinson J R	198	5	5

And in accordance with law and an order of the Board of Trustees, made on the 21st day of April, 1864, so many shares of each parcel of said stock as may be necessary will be sold at the salesroom of Jerome Rice & Co., on the 4th day of June, 1864, at the hour of 11 o'clock A.M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

WM. H. MARTIN, Secretary.

21-3t Office, 627 Clay street, San Francisco.

The above sale is postponed until Saturday, June 11th, 1864, at the same hour and place as above mentioned. By order of the Board of Trustees passed June 2nd, 1864. WM. H. MARTIN, Sec'y.

23-2t Office, 627 Clay street.

Scorpion Silver Mining Company, Virginia District, Nevada Territory.

Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Scorpion Silver Mining Company, there will be sold, at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on SATUDBAY, Mny 28th, 1864, at 11 o'clock A. M. of that day, to the highest bidder, for cash, in U. S. coin, so many shares of the capital stock of said Company, standing in the names of the following shareholders, as will be necessary for the payment of an assessment of twenty-five cents per share, duly levied thereon by the Board of Trustees on the 21st day of March, A. D. 1864, and assessments previous thereto, together with the expenses of advertisement and sale, to wit:

Names.	Shares.	Assessments— No 20	No 21	No 22	No 23	No 24	No 25	Amt due.
B Baycrque	12						$3 00	$3 00
J T Hartwell	16					4 00		4 00
J L Bufford	59				14 75	14 75	14 75	44 25
S F Bufford	24						5 00	6 00
C Broad	10						2 50	2 50
F Bollicau	10			2 50	2 50	2 50	2 50	10 00
Mrs L G Baker	10		2 50	2 50	2 50	2 50	2 50	12 50
S E Barnard	1			25	25	25	25	1 00
Rebecca Bones	4					1 00	1 00	2 00
S L Cotran	20		5 00	5 00	5 00	5 00	5 00	25 00
L Chopard	2				50	50	50	1 50
L E Colcman	2					50	50	1 00
Chas Clayton	5						1 25	1 25
C Chevallier	16				4 00	4 00	4 00	12 00
P Crozet	19						4 75	4 75
W D Dyer	12			3 00	3 00	3 00	3 00	12 00
— Deutsch	3						75	75
M Eldred Jr	115						28 75	28 75
E D Teusier	8				50	50	2 00	3 50
H Feusier	4						1 00	1 00
C Gigneux	10						2 50	2 50
F Henderson	228				57 00	57 00	57 00	171 00
H Hentsch	10			2 50	2 50	2 50	2 50	10 00
B A Hendrickson	5						1 25	1 25
J R Hughes	12					3 00	3 00	9 00
N T Johnson	12			2 50			2 50	5 00
John Kelly	49				6 00	12 25	12 25	30 50
J B Lafargue	2				50	50	50	2 00
W W Morgan	2				50	50	50	2 00
John McKewen	9						2 25	2 25
John Paine	3	75	75	75	75	75	75	4 50
Emeline A Paine	3	75	75	75	75	75	75	4 50
M Pratt	2							50
P Robinson	100						25 00	25 00
Robt Sherwood	200						50 00	50 00
Herman Smith	10						2 50	2 50
Emma R Scbeper	1						25	25
Henry Vollers	5						1 25	1 25
E D Waters	12						3 00	3 00
Eliza A Waters	12						3 00	3 00
Ella Waters	1						25	25

By order of the Trustees. W. H. MARTIN, Secretary.

San Francisco, April 28, 1864. 627 Clay street.

The above sale is postponed until SATURDAY, June 11th, 1864, at same hour and place as above mentioned. By order of the Trustees. W. H. MARTIN, Secretary.

22-td No. 627 Clay street, San Francisco.

Caledonia Tunnel and Mining Company, Office, No. 10, Government House, San Francisco, May 17, 1864.

Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Caledonia Tunnel and Mining Company, as required by the By-Laws of said company, there will be sold at public auction, to the highest bidder for cash, in United States Gold Coin, on SATURDAY, June 18, 1864, at 11 A. M. of that day, at the salesroom of Messrs. Jerome Blee & Co., No. 327 Montgomery street, San Francisco, so many shares of the capital stock of said company, standing in the name of the following person, or shareholder, as will be necessary for the payment of all assessments duly levied thereon by the Board of Trustees, and delinquent, together with the expense of advertising and sale:

Thomas Sunderland, Administrator of the Estate of H. O. Gaylor. No. certificates—602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621.....200 shares.....$2144 50

By order of the Board of Trustees.

21-4t J. M. BUFFINGTON, Secretary.

Mechanical.

A GREAT INDUSTRIAL FAIR!

—TO BE—

Opened in San Francisco,

—ON—

THE 30TH OF AUGUST, 1864.

THE MECHANICS' INSTITUTE OF SAN FRANCISCO ARE preparing for an Exhibition of Arts, Inventions, Manufactures of Industry in general, upon a scale more grand, attractive and useful than ever before seen upon the Pacific Coast. Their Pavilion, built for the purpose, will occupy one of the city plazas, and will contain every convenience and appliance for an effective display. The Institute appeals to all persons within the scope of its influence, who are engaged in different branches of industry and art, to prepare and forward for Exhibition such articles as they may invent, discover, or make, that are useful, instructive, curious, or suggestive. There is scarcely an occupation in life that cannot supply some article that can be so considered, and by their public exhibition they may start the genius of invention in some other branch of industry or skill, the successful development of which may greatly enrich the State. The premiums and published reports of the Exhibition will widely advertise their qualities and merits.

Each age and country has new wants, which the progress of civilization creates and ingenuity gratifies. Those of our own day and section are improved methods and machinery for reducing ores of the precious metals. A striking feature of the Exhibition will be the number and variety of these, worked by the inventors. It is hoped that information most useful to the mining interest will be elicited. Miners are invited to send ores for exhibition, and trial, in quantities sufficient to be worked seperately in the different machines, in order to test both the relative merits of the machines and the value of the respective metallic veins.

The various transportation companies of the Pacific states and territories will, with commendable liberality, transport all articles intended exclusively for exhibition, free of charge, and Wells, Fargo & Co., in like manner, will take charge of them.

All articles forwarded should be labeled— "For the Industrial Fair," and be directed to C. B. Porter, agent.

Regulations for the Exhibition.

1—Persons intending to take part in the Exhibition are requested to make known their intention at the earliest practicable period, stating the kind of article or articles they intend to exhibit, and the probable amount of space required therefor.

2—The Pavilion will be open for the reception of articles for exhibition on Monday, the 22d day of August, and will continue open for that purpose until Monday, the 29th. The Exhibition will open to the public on Tuesday, the 30th day of August.

3—The name of every article should be attached to it; also a description pointing out its merits, when thought desirable by the exhibitor.

4—When articles are entered, a check for the same will be given, which must be presented and surrendered when the articles are withdrawn.

5—Articles intended for sale will be labelled accordingly, but cannot be removed until the close of the Exhibition, except by the written permission of the President.

6—Light, fancy or perishable articles will be received, or may be removed, at any time during the Exhibition, with the consent of the President.

7—All articles deposited will be at the risk of the owners, who are invited to be present during the hours of Exhibition. In the intervals efficient measures will be taken for the protection of property.

8—On the day following the opening of the Exhibition, each class of exhibitors will meet to choose, by ballot, their own Committees of Award; failing in this for one week, Judges will bo appointed by the Executive Committee. The Executive Committee will award premiums for such articles as the several juries shall decide to be worthy of the same. The premiums will be delivered as soon as they can be prepared.

9—The morning of each day, until 9 o'clock, will be appropriated to the judges, and visitors will not be admitted during that time,

10—In case of misunderstanding, application may be made to the Executive Committee, who will be at all times in attendance.

11—Steam power will be provided, that machinery of all kinds may be seen in operation; and every possible facility will be given to exhibit all working machinery to the best advantage.

12—Exhibitors or their agents will receive free tickets of admission when, in the opinion of the President, the articles exhibited by them have such value, interest, or merit as to deserve it; but the transfer of any such tickets will work a forfeit of the privileges conferred by them.

13—All communications to be addressed to WILLIAM PATTON, Corresponding Secretary.

Executive Committee.

JOSEPH BRITTON,	A. S. HALLIDIE.
H. D. DUNN,	P. B. DEXTER,
E. NUNAN,	J. O'CONNOR,
W. H. KNIGHT,	C. R. STEIGER,
E. N. TORRY,	W. H. BRYAN,
H. F. WILLIAMS,	J. A. PRITCHARD.

19-tf

IMPROVED WATER-WHEEL,

—PATENTED BY—

John Tyler, West Lebanon, N. H.

GIVING THE MAXIMUM POWER WITH THE MINIMUN COST—HAVING THE FOLLOWING AS SOME OF ITS ADVANTAGES OVER OTHERS—GIVING THE BEST PER CENTAGE OF WATER USED, DURABILITY.

It runs Equally as well IN Back Water as OUT.

IT IS ADAPTED TO HIGH HEADS OR LOW—IT IS NOT LIABLE to get out of repair—It can be put to running by any Machinist in a very short time—It is the steadiest running and easiest regulated wheel in use—There are now some 500 of them in use in the United States and Canadas, running under all heads, from 4 to 80 feet, and giving universal satisfaction. Address

SMITH & HANSCOM,
15v8-3m Golden State Iron Works, San Francisco.

Rock Drilling Machines.

HAND AND POWER ROCK DRILLING MACHINES, FOR SALE AT 25 PER CENT LESS THAN IMPORTATION PRICES, TO PEREMPTORILY CLOSE OUT THE ENTIRE STOCK.

Also, Second hand Presses as follows: One Hydraulic Press: One Screw Standing Press; One Lithographic Press. The above presses are all in good order. WM. W. DUNN.

19-1m No. 9, First Street, San Francisco.

LEANDER RANSOM,

Civil Engineer and Surveyor,

HAVING BEEN CONNECTED WITH THE PUBLIC WORKS OF the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. Also

State Locating Agent,

AND AS SUCH HAVING THE SALE OF

600,000 Acres of State School Lands.

At the low price of $1,25 per Acre.

TERMS—Twenty per cent in cash and the balance on a credit of several years.

oc7-tf Office, 323 Montgomery streets.

REYNOLD'S

Patent Cut-Off and Governor,

For Steam Engines.

127 of these Invaluable Machines

ARE NOW IN USE

In California and Nevada Territory, giving a perfectly regular motion and

Saving 20 to 75 per cent of the Fuel.

Steen's Improved Governor

IS THE CHEAPEST, SIMPLEST AND QUICKEST TO ACT AND least liable to get out of order of any Governor in use. It can be seen in operation at the Golden State Iron Works, at the Stone Breaker, foot of Montgomery Street and at the Sugar Refinery, 8th Street, San Francisco.

Steam Engines, Boilers, Pipes,

Hydraulic Presses, Shafting, Pulleys, Etc., Etc., bought and sold the best market rates.

Anti-Incrustation Powder,

A sure remedy for Scale in Steam Boilers, without injury to the Iron. In use for the past EIGHT years.

☞ MACHINERY MADE AND REPAIRED. ☜

—REFER TO—

Sugar Refinery, San Francisco,
Cottell & Co., San Jose,
L. A. Booth, Esq., Virginia City,
And 2,000 others in the United States.

E. T. STEEN.

1-tf Nos. 37 & 39 Fremont Street and 42 & 44 Beal Street.

MINERS' FOUNDRY

—AND—

MACHINE WORKS,

First street, between Howard and Folsom streets,

SAN FRANCISCO.

EVERY DESCRIPTION OF IRON AND BRASS MACHINERY, the **Best** and **Most Economical**, manufactured in the State of California, will be furnished with dispatch at the Miners' Foundry and Machine Works, as:

Steam Engines and Boilers, Flour, Saw and Quartz mill machinery Mining Pumps, Amalgamators, Retorts, Etc., Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections, designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

☞ Parties desiring to test their ores practically, in small quantities will be afforded ample facilities, free of cost.

All parties desiring accurate and highly finished drawings and Superior Machinery, at most reasonable rates are cordially invited to call before contracting elsewhere.

tf. HOWLAND, ANGEL & KINO.

PACIFIC IRON WORKS,

First street, between Mission and Howard streets,

SAN FRANCISCO.

GODDARD & COMPANY,

—MANUFACTURERS OF—

STEAM ENGINES & BOILERS,

QUARTZ, FLOUR, SAW AND SUGAR MILLS,

AMALGAMATING PANS AND BARRELS, MINING PUMPS AND HOISTING GEAR, WATER WHEELS,

And Machinery of Every Description.

Also furnish all kinds of Iron and Brass Casting. Only Manufacturers of the celebrated Bryan Battery. 14-tf

THE ATLAS IRON WORKS,

No. 24 & 26 Fremont Street.

—MANUFACTURE—

STEAM ENGINES, MINING MACHINERY, QUARTZ MILLS, MINING PUMPS, AMALGAMATORS, AND ALL OTHER KINDS OF MACHINERY FOR MINING OR MILLING PURPOSES.

Castings of all kinds,

Furnished. Our new and complete arrangments will enable us to do this kind of work in a superior manner and on the shortest notice.

Steam Engines of Scott's Patent,

Can be furnished of any size, and of high or low pressure. These Engines combine so many points of decided improvement in their simplicity of construction, and in the economy of fuel for running them, as to make them superior to all others. One can be seen in operation at the works, where all information respecting them can be obtained.

16v8 THOMAS SCOTT & CO.,

SAN FRANCISCO

FOUNDRY & MACHINE WORKS,

Corner Fremont and Mission streets,

SAN FRANCISCO.

ALL KINDS OF MACHINERY MADE TO ORDER ON THE MOST reasonable terms. Steam engines, high and low pressure, Quartz Mills, Saw Mills, Mining Pumps, Hoisting Machinery for mining purposes, Agricultural Implements, etc., etc. Castings, of all descriptions, made to order. Also, WINE, CIDER AND TOBACCO PRESSES, of the latest improved patterns.

☞ Steam Engines constantly on hand.

Brodie's Improved Patent Wind Blast Separator for Dry Crushing, Manufactured here.

☞ REPAIRING promptly attended to.

DEVOE, DINSMORE & CO.

San Francisco, May 28, 1864. 22v8

DUNBAR'S

Patent Self-Adjusting Piston Packing.

Requires no Springs or Screws.—Is always Steam Tight, without excessive friction, and never gets slack or leaky.

IT WILL SAVE EACH SEASON MANY TIMES ITS COST IN friction, time, steam and power. No engine, old or new, should be without it. It can be easily fitted to old or new Pistons.

Having obtained the Agency of this VALUABLE IMPROVEMENT, I am prepared to furnish it wherever desired. For further information, address HENRY S. SMITH,

23v8 Golden State Iron Works, San Francisco.

PIONEER FOUNDRY and MACHINE SHOP,

Lower Gold Hill,

Have Superior Facilities for Making

MINING & MILLING MACHINERY,

A COMPLETE SET OF MACHINE TOOLS WITH

PLANER,

ENABLES ME TO DO ALL KINDS OF

MACHINE WORK AT SHORT NOTICE.

RETORTS AND INGOT MOULDS,
STAMP SHOES AND DIES,
WHEELER, VARNEY AND HEPBURN
PAN SHOES CONSTANTLY ON HAND.

Plans, Specifications, and Drawings of all kinds of Mill and Mining Machinery made at short notice, by

13 OLIVER HYDE, JR.

D. B. HINCKLEY, WM. E. WORTH. WM. A. FIELD

Fulton Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First Street, between Market and Mission stree

3-qy SAN FRANCISCO.

J. H. GRUSH, J. A. PEER, W. BUSHMAN

GRUSH & CO.,

Pattern and Model Makers.

Drawings Made for Engines, Mills, Water Wheels, Mining Machinery, Etc.

—ALSO—

WOOD WORK FOR ALL KINDS OF MACHINERY.

☞ SCROLL SAWING DONE TO ORDER.

Fremont St., between Market and Mission, San Francisco. 3-3m

GEORGE T. PRACY,

MACHINIST AND BLACKSMITH.

Steam Engine, Flour and Saw Mill, And Quartz Machinery, Printing Presses,

—AND—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED Nos. 109 and 111 Fremont street, near corner of Mission, OPPOSITE MECHANICS' MILL,

3-qy SAN FRANCISCO.

JOHN F. GALLAGHER..... .....JOSEPH H. WEED.

GALLAGHER & WEED,

BRASS AND BELL FOUNDRY

And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING, DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, MADE to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks, also brass Padlocks and Shop Locks of various patterns, on hand and made to order.

☞ Particular attention given to casting Rudder Braces and Ship Work in general.

☞ All Jobs promptly attended to.—Prices moderate. ☜

No. 125 First Street, opposite Minna, next door to Pacific Foundry.

[Removed from Oregon street, between Front and Davis.]

j2tf

LEWIS COFFEY. J. S. RISDON.

LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

THE ONLY EXCLUSIVELY BOILER MAKING ESTABLISHment on the Pacific Coast, owned and conducted by Practical Boiler Makers. All orders for New Work, the repairing of Old Work, executed as ordered, and warranted as to quality.

Old Stand, corner Bush and Market Streets. Opposite Oriental Hotel, San Francisco, Cal.

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,

BOILER MAKERS AND SHEET IRON WORKERS,

N. B. All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission, between Beal and Fremont Sts., San Francisco.

qy29-tf

PHŒNIX WORKS.

Nos. 6 & 8 Battery street, near Bush, San Francisco.

JOHNATHAN KITTREDGE, MANUFACTURER

—OF—

FIRE-PROOF DOORS, SHUTTERS, GRATINGS AND BANK VAULTS.—ALSO, BLACKSMITH'S WORK. 14-m

Vulcan Iron Works Company.

P. Torquet.....Manager.

Steam Engine Builders and Boiler Makers, Iron Founders and General Engineers,

PUMPING, HOISTING, MINING AND QUARTZ-CRUSHING MAchinery. Shoes and Dies of the hardest iron. Russia Iron Punched Screens, Steamboat Machinery, Saw, Flour and Sugar Mills. High and Low Pressure Boilers of all styles. JOYNAL and other Turbine Water Wheels with latest improvements.

tf No. 137 & 139 First Street San Francisco.

NEW FOUNDRY.

SCHWARTZ, SHIELDS & CO.,

Albany Iron Works,

Mission street (south side), just below Beale.

THE UNDERSIGNED PROPRIETORS ARE PREPARED TO manufacture all kinds of castings on the most liberal terms and on the shortest notice. Orders solicited.

N. SCHWARTZ,
R. SHIELDS,
D. S. DONELTY,
J. F. FLYNN

San Francisco, May 24, 1864. ---22-tf

AND SCIENTIFIC

Mining Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

VOLUME VIII. SAN FRANCISCO, SATURDAY, JUNE 18, 1864. NUMBER 25.

LET THE MINES BE REPRESENTED.

We aro requested by Mr. C. B. Porter, tha General Agent of tha Mechanics' Fair, to invite mining superintendents and mine owners throughout the Pacific coast, to prepare for exhibition at the approaching Fair specimens from each of their mines, showing the vein-stone, together with the associate rocks and, so far as may he, the general geological character of the several districts. The Institute proposes to furnish ample room, and take charge of the exhibition of all the specimens forwarded. Specimens should be carefully labelled. The importance and interest which will attend to such a display must he apparent to all, and we trust the miners everywhere will embrace the opportunity here presented of making their several locations and districts known to the public. This portion of the exhibition will be under the direction of persons in every way competent to the charge, and if properly initiated by the mining public, will form one of the most important and interesting features of the exhibition. All parcels and packages sent exclusively for exhibition will he transported free by the various transportation companies of the Pacific States. Miners are also invited to send ores for trial in quantities sufficient to be worked separately in the different classes of machinery which will he found on exhibition, both to test the merits of the machinery and the value of the veins. Such packages will, of course, have to he forwarded at the expense of the parties directly interested. All articles forwarded should he labelled "For the Industrial Fair," and directed to C. B. Porter, Agent.

The Panic.—The so-called panic, so far as legitimate stocks are concerned, has turned out to he nothing more than a big scare caused by the timidity of a few, and the natural tendency of the many to follow any one who will lead boldly. Finding that the mines did not sink, nor the bottom of every financial arrangement drop suddenly out, the feverish excitement of the past few weeks has passed off, and men who a short time since might have been seen with elongated visages, dolefully whispering in melancholy groups, now walk the streets with head erect and countenances jubilant; and the cheerful chink of the money, as it passes from hand to hand, is heard on every side. This excitement, and its attendant reaction, has had, and still will have, good results.—It will show who are our timid sidewalk operators, who could not look into the causes of a financial revulsion any more than they could through a grindstone without a hole in it, and also who have stamina enough to look behind the curtain and profit by the causeless fright of others.

The Yuba Company have recently remitted 78 ounces of gold, the result of 6¾ days working of rock from their ledge, worked at the Pensylvania mill, Brown's Valley, Yuba county. This is the third report of a similar character made by this company during the past few months.

HOME INDUSTRY.

HUNT'S WINDMILL FACTORY.

At the suggestion of friends, who appear to take an interest in the articles we are publishing under this head, for the sake of variety we this week change the subject, and present our readers with another branch of our Home Industry, viz: Messrs. Hunt & Co's Windmill Factory, on Second street. Without meaning any disparagement to the firm, this establishment may with propriety he termed the "old curiosity shop" of San Francisco, possessing as it does so many ingenious contrivances to save power and facilitate labor, that Charles Dickens himself, the author of the original "Curiosity Shop," would find much, on visiting it, worthy the power of his vivid and descriptive pen.

The works were established in 1856 by the present proprietors, and are the only ones of the kind in the State. In the center of the works, surrounded by more pretentious buildings, and almost obscured from sight, stands the original windmill of California, a most interesting memento of our progress. It was erected in 1856, and used for the purpose of grinding corn. It had power to turn a 2½ foot stone and grind eleven bushels an hour. The first year it ground 300 tons of barley. Like other monuments of our growth still seen in our midst, it soon became unequal to the demands of an increasing population, finally ceasing to he used at all. And so it stands to-day, grim and rusty in its departed glory, like an old man clinging to the fashions of his youth.

From such small beginnings this firm has grown with our growth, until it has become celebrated in the history of the country; for, perhaps, none of our enterprising mechanics, and their name is legion, have been greater benefactors to our community, by contributing to its imperative necessities, than the Messrs. Hunt & Co., with their windmills. In our last article, on the Golden State Foundry, we referred to this establishment, and promised a more detailed account, which we this week give.

The works are situated on Second street, about mid-way between Market and Mission, on the right hand going towards the Bay, and so unpretending in appearance that it is extremely difficult to find them. On entering, however, the experienced observer will he immediately struck with the completeness and ingenuity of the mechanical arrangements; nor is his surprise lessened, when searching for the motive power of the wheels and belts spinning round in every direction, he discovers it to spring from a single horse, eternally climbing up stairs. The whole expense for motive power with this now well-to-do firm consists in the keep of a couple of horses, which relieve each other every two hours and a half. The first animal they purchased for this labor was blind, broken-kneed and old—qualities well adapted for the work he had to perform. In the pressure of business the old fellow has often worked twelve hours a day without relief, and is now fat, sleek, spunky, and apparently good for ten years more. When he goes to the spirit-land, supposing he ever does, it is to he hoped he will find the green pastures which we read about.

The firm now employs fourteen hands constantly, and in the course of the year consume an immense amount of iron and lumber. During the last twelve months they have built 150 windmills, ranging in price from $75 to $1,000. We referred in our last article to the mill at the Catholic Asylum, of this city, having the power to raise water perpendicularly 272 feet, and throwing it horizontally 4,000 feet.—This mill, we have since learned, threw 95,000 gallons of water in forty-two hours, keeping the immense tanks of the establishment constantly full with ease. The total cost was $900. Another mill on a large scale has recently been erected at the splendid suburban residence of R. B. Woodward, proprietor of the Wheat Cheer House, at an expense of $600, which, in proportion to its size, is equally effective, having thrown 9,000 gallons of water in four hours, the first morning it was put to work.

In our wanderings over the agricultural districts we have long been familiar with the power, effectiveness and durability of these mills. Throughout the valleys they are indispensable. Could they not be used to advantage by our mining population? The firm assure us they can build mills of any capacity, and guarantee with their largest size to force water *three miles* through pipes. If this long been our opinion they would he incalculably valuable in the mines, where water is scarce, and this guarantee of forcing water three miles in pipes is well worth the consideration of our readers in the mountains. Mr. Hunt politely invited us to take a drive with him in a day or two to witness an operation of this kind, and we shall then probably have more to say upon its adoption by miners.

There is much in the construction of these mills that is ingenious, novel and valuable. First, the sails, generally twelve in number, turn to the wind at any angle, or can he brought edgeway to the wind by means of a hand lever, each and all of them tending naturally to the wind without the use of a vane, from whatever direction it may be blowing. By this arrangement the speed of the mill can always be regulated in heavy winds without trouble or inconvenience. If found necessary to change the angle of the sails while running, it can he done by the lever in a moment. As the lever is the main agent by which the mill is stopped or put in motion, the firm have conceived a most effective plan of making it self-acting, and in this mainly lies the peculiar advantage of their mills. To accomplish this, a rod is connected with the lever at the foot of the mill and the rocking beam in the center, with a balance weight at one end and a float at the other. Thus when the water lowers in the tanks the float sinks; the balance weight naturally rises in proportion, and pass-

ing at last over to the other side, the lever is raised and the mill commences running. By a reverse action, in due time as the tanks fill, the mill is stopped. Thus, presuming your mill to be in good order, you will have a constant supply of water by this simple principle of self-action.

The pump attached to these mills is an invention of the firm, and is spoken of as combining great strength with simplicity of construction. It in some measure resembles the Farnham pump, only it is more simple and effective. It is equally applicable to deep dug and artesian wells, as to shallow ones, and can be either worked by the windmill, or horse or hand power. It can be taken to pieces and replaced by a common wrench, is easy to repair, and not liable to get out of order. They make five sizes of these pumps. It has also the merit of being very cheap.

Mr. Hunt's "Self Regulating Horse Power," which as we stated at first is the only motive power in the works, is very ingenious and useful, considering it can be applied to almost everything. It is valuable in small machine shops, either wood or iron, being capable of boring and drilling iron, sawing with scroll or circular saw, grinding or cutting glass, or in fact anything in the world. Its advantages may be summed up thus: It occupies a small space, runs with great regularity, has very little friction, does not clog with dust and sand, can be built cheaply, needs very little attendance, and is easily repaired. We can vouch that it is worth examining by those needing motive power of the kind.

Such is the history of our local "old curiosity shop." At the approaching Mechanics' Fair, you may rest assured it will sustain its reputation, both for skillful inventions and perfection of workmanship, doing honor to our Home Industry and mechanical progress. L. H.

The Proposed Southern California Wagon Road.

In our issue of April 16th we made some extended remarks upon a bill which has been introduced into the House of Representatives at Washington for granting alternate sections of land, at the rate of three square miles of land for each mile of road, for the construction of a road from the head of Santa Clara Valley to San Diego, and from Gilroy, *via* Visalia, to the Owens River Valley. The construction of these roads would call for about 24,000 square miles of land, embracing a large portion of the most valuable agricultural land in Southern California. The natural inference, in the absence of information to the contrary, was that private parties were at the bottom of this operation, and that a gigantic speculation, or rather swindle, was about to be perpetrated upon the people under the cover of this bill; hence we spoke in pretty sharp terms with regard to the proposition. The following letter, however, which we have just received from a member of our Congressional delegation, puts quite a different aspect upon the proposition:—

My attention has been called to the first article in your useful paper of April 16th, 1864. There is no proposition to grant lands to any individual or company, but only *to the State of California*, to aid in constructing and keeping in repair good military and post roads over the routes mentioned. The bill, I am sure, is so guarded that no individual can suffer by its passage, and if any person or persons, distinct from the whole community, is to be benefitted by it, I have no knowledge whatever of the fact. Indeed, I cannot see how that can occur, inasmuch as the grant will be *to the State*, to be used as she may see proper, but for the objects mentioned.

If some such plan of granting lands to aid in making roads had been adopted years ago, California would have been less cursed with toll roads.

I am sorry I cannot send you a copy of the bill, for it has not been printed. There is no prospect of its passage this session, as it has not been reported yet. The grant of land, if made at all, will be made to the State of California.

The bill, with the above explanation, is certainly one which must be acceptable to all Californians, and secures the interest of the people in these lands even better than though the title was continued in the hands of the Federal Government. We regret, under these circumstances, to hear that there is no prospect of its passage at the present session.

Communications.

[Written for the Mining and Scientific Press.]

The Mines of Amador County.

[CONTINUED.]

Across the ridge north of Sutter Creek, a deep ravine leads down to another westward flowing stream and the small settlement, called Amador. Along the eastern side of this ravine are located several quartz mines on a continuation of the Sutter Creek belt. Among the claims proceeding northward, are the Herbertville, possessing a thirty stamp mill, and idle for the past eighteen months, because the ledge gave out. The Monitor, on the Keystone ledge, in a clay slate formation, with a shaft 400 feet in depth, now being worked; the Geneva, on a parallel vein to the westward, with a shaft 200 feet in depth, and the Spring Hill, north of the Geneva, working a shaft and running a tunnel toward the ledge. Two moderate sized mills are here engaged in crushing quartz.

About six miles north of Amador, on the same belt of quartz, is the Hooper mine, which is held in good repute in its immediate vicinity, and is said to yield a profit of $50,000 per annum. It is rumored that a Boston company have tendered a quarter of a million dollars for the mine. The ledge is from four to sixteen feet in width, and penetrated to a depth of 300 feet. During the first two years this ledge was worked at the south end, and paid but poorly. It gives employment to a fifteen stamp mill with thirty-two pans attached.

Less than a mile west of Puckerville, I visited the Capp's company's claim, of 600 feet, commonly known as Capp's ochre ledge. It is situated near the junction of trap and slate, which former rock is either accompanied by a porphyry containing plates of feldspar, or else is transformed into a rock of that character. A little more than a year ago, the discoverer found a number of seams or veins, from three to five inches wide, of ochre very rich in gold, one ton yielding $1,800. The veins run diagonally in a northwest direction from the western edge of the trap into the slate, for a distance of eighty feet, dipping eastward at various angles, and at a slight depth are chiefly composed of quartz. According to the calculation of Mr. Capps, these veins will unite as a single ledge with one general course at a suitable depth; and the idea is quite reasonable, whatever may be the ultimate size of the vein. He finds an exact similitude between the surface appearance of this mine and one that he was familiar with at Charlotte, North Carolina, which has been worked to a depth of 1,000 feet, and during forty years given employment to 300 men and twenty-five quartz mills. The Capps claim has been prospected by surface cuts at different points along its entire length, and has a shaft on a two foot ledge at the depth of thirty feet. The quartz taken from the shaft contains considerable white iron pyrites, and is said to yield $30 per ton in gold. A small six stamp mill is in operation near the mine.

The Dakin company's claim, of 1,370, feet next south, posesses a six stamp mill. The mill and the mine are both idle.

Crossing the Cosumnes river at the Forks, I noticed about a mile and a half up the North Fork a quartz mill beside a bold reef of quartz. From a recollection of having lately seen this mill advertised for sale, and presuming it to be idle, I made no attempt to visit it, but proceeded northward over a strip of country composed of rocks altogether eruptive in their character, but containing a line of quartz, whereon, in early days, Spaniards had evidently spent much labor in prospecting, as shown by the ruins of arastras and a notched pole pendant from the center of one of the shafts. Reaching Logtown, I found a ten stamp mill engaged in crushing rock taken out some time before from a 100 foot shaft on the Bogardus claim. The yield of this quartz is $7 per ton. This mill, which is idle one-half the time, is the only one left of the four once constantly rattling away at this place.

At Placerville, my next station, there are several claims situated near the junction of a north-westerly and south-easterly dyke of serpentine with clay slate. A mile north of town, in clay slate, beneath an eastern hill of serpentine, is the Harmon company's claim, of 1,400 feet. The vein is being worked through a tunnel terminating in a shaft ninety feet in depth. A fifteen stamp mill is engaged in crushing the rock from this mine. The stuff being crushed appeared to be a mixture of talc slate, earth and quartz.

A short distance south, on the same vein, the Young Harmon Co. are prospecting their claim, with a shaft down forty feet on a vein dipping eastward, and between two and three feet wide.

A mile east, is the New El Dorado mill, an apparently well arranged affair, of four stamps, erected six months ago, and idle since a short run of two weeks, but shortly again to be set in motion. The original vein belonging to this company being only two inches wide, would not pay. Work is, however, proceeding on a larger vein.

The New York mill, of ten stamps, located further north, near the eastern side of the same serpentine belt, has also been troubled with a small vein, and is now idle.

On the south side of the town is the Pacific Co's vein, once a very profitable mine. The claim, together with a good twenty stamp mill, was sold a little more than a year ago to a party of Cornish miners for $10,000. Quite lately negotiations were underway for a transfer of the property in consideration of the sum of $50,000, but are said to have fallen through. The present owners work in the mine until they have extracted enough rock to set the mill going, when they turn their attention for awhile to the crushing operation. The portion of the vein now being mined is north of the old works, and is closely cased in serpentine. A shaft has reached the depth of fifty feet, with a southerly drift at the end of which is a chamber of quartz, six feet in width, containing coarse gold quite thickly clustered in spots.

The Atlantic company's claim, on the opposite side of the dyke of serpentine, has a lengthy tunnel, closed and idle.

At Clarksville, on my way to Sacramento, I handled a chunk of gold and quartz about the size of a man's hand, and weighing forty-nine ounces, found by one Armstrong and partner, a few days before, in a ravine two miles south of the town. It was a jagged mass of metal, with a little quartz exteriorly attached. Another piece, weighing ten ounces, and two smaller ones were found close beside it. The lucky finders had been for some time working on unprofitable strip of "old ground," but struck a spot previously untouched, where the nuggets were unearthed in shallow ground quite free of association with gravel of any kind. Found elsewhere than in California, what a furore they would have created among the acquirers of feet. To satisfy a curiosity regarding the possibility of a permanent quartz ledge near by, I visited the fortunate claim, but found nothing to induce a belief in any other than a pocket deposit. These great masses of gold generally come from veins very unprofitable for continuous working.

Alongside the Placerville and Sacramento road, two and a-half miles west of Clarksville, are several excavations and an enclosed arastas near a neat dwelling. Unpretentious as are the surroundings, yet here is a quartz ledge that by economical working since its discovery, four years ago, has yielded its proprietors $17,000 worth of gold, from a small strip of ground. The claim embraces 1,050 feet, belongs to Palmer & Co., and is called the Jersey Blue. It is a vein of auriferous quartz, in a very friable soft trappean rock, with narrow iron slate casing, dips at an angle of thirty degrees to the east, and varies in width from nine inches to two feet. An incline has been sunk to the depth of 100 feet, but is now partly filled with water. The rock and earth selected for working in the arastra averages $75 per ton. Unless I am much mistaken, a portion of the rock from this vein is more favorable for silver than gold.

Reviewing the general character of the auriferous veins of the section of country I have just traversed, I find a confirmation of my belief that the quartz veins of California are, in the main, superior to those of any other mining region. Few or none need entail any large outlays beyond the returns; that some of them have done so has been due to the want of knowledge and experience rather than to any general poverty of the veins. Much money has been frittered away in unlikely places, and through exaggerated ideas of future profits and want of that caution manifested in every other business undertaking except mining. In the quartz mills I saw few improvements, and should judge that the losses of gold in the crushing operations were but little less than in the primitive days of quartz mining. I have a suspicion that in this branch of mining, capital, inventive skill, and scientific knowledge will hereafter gain great and remunerative triumphs. M.

The bonds of the town of Gold Hill, N. T., are advertised for sale in sums of from $500 to $10,000, with coupons bearing interest at two per cent. per month.

[From the "American Journal of Science and Arts"]

The Mechanical and Chemical Treatment of Gold and Other Metals.

A LETTER ADDRESSED TO PROF. B. SILLIMAN, JR., FROM JAMES D. WHELPLEY, ESQ.

Agreeably to your request, I send you herewith a few memoranda in explanation of our new process for preparing quartzose ores of gold for amalgamation.

This process, so far as I am aware, together with all the machinery employed in it, was invented and constructed by Col. J. J. Storer and myself.

Our researches in this direction began in the spring of 1860, in Philadelphia. We experimented for several months upon a small scale, testing most of the then known processes for reduction and desulphurization of ores. It then appeared to us that processes requiring long periods of time, such as are employed by skillful chemists in the laboratory, could not be applied to large mining operations, where masses of several tons have to be treated at one operation.

A few grains of sulphurets of iron or copper heated to whiteness in a platinum capsule will be thoroughly desulphurized, but a mass of ore weighing several thousands of pounds cannot be handled in this manner. The ore fuses in this manner, taking the form of slag, and holds the sulphur confined in its substance.

If, on the other hand, the finely pulverized ore be spread thinly over a hearth fourteen feet in length and 8 or 10 feet in diameter, with free access of air, and the heat either radiated from the roof or passing up through the hearth of the furnace, a very thorough desulphurization may be effected, by constant turning and exposure of fresh surfaces, taking care that the temperature does not exceed a cherry-red heat.

A large access of atmospheric air is necessary for the management of this process, and it is aided by the addition of chlorid of sodium, and other reducents. Though perfect in the end, it is exceedingly expensive and tedious, because of the care required in regulating temperature and handling of the material

The results of the experiments with this last process were, however, very valuable to us. We discovered that the first condition of thorough desulphurization was the reduction of the ores and sulphurets to an *impalpable powder*. The reason of this is evident; viz: that the effect of heat upon a particle increases inversely as the square of its diameter.

Microscopic atoms are readily acted upon by combined air and moisture at a cherry-red heat. Pieces of the size of mustard seed will resist the action of the best managed furnace for hours, and the difficulty increases with the size of the particles directly as the squares of their diameters.

A theoretically perfect process, therefore requires:

1st. That every particle shall be microscopically small—in the condition of fine, floating dust.

2d. That the particles do not touch each other while hot.

3d. That when metallic grains, as of gold or copper, have to be separated from the ore, the contact of water with the heated particles is necessary.

We constructed a furnace in which finely pulverized ore-dust was floated in a current of hot air and flame, passing down through a flue leading from a hard-coal fire, at an angle of about 45°, and then resting upon a horizontal hearth or sole.*

We discovered at this time that moisture or the vapor of water in large quantities materially aided the process of desulphurization in free air, and we constructed and applied a steam apparatus by which a volume of steam was made to pass down the incline flue with the ore-dust, the atmosphere, and the products of combustion.

At this point we encountered several serious difficulties. The inside of the inclined flue became lined with stalactoid masses of semi-fused ores, and the sole of the furnace caked and covered with the same. When a certain quantity of burnt ore had accumulated on the hearth, a trap was opened, and the heated mass pushed through into a water-bath. The agglutinated masses, on being withdrawn from the bath, were re-ground, and passed a second time through the furnace.

A sufficiency of atmospheric air could not be applied through the furnace doors, and a very large percentage of the ores escaped through the chimney into the open air.

The last of these difficulties was overcome by placing a powerful fan wheel of copper (which served also as a water or spray wheel) in the chimney itself, or in a chamber of it, and by carrying the horizontal flue some 75 feet beyond this wheel.

The steam from the furnace and the spray from this wheel, working over a pool of water which formed the floor of a horizontal flue, effectually wetted down and saved the flying dust of ore.

The brick floor or sole of the furnace was abandoned, and a water-floor substituted. Over one end of this pool or water-hearth a perpendicular flue was erected, from 12 to 15 feet in hight above the surface of the water.

The fumes of four fires were poured into the top of this flue by the effect of two fan wheels: the first, the copper spray wheel already spoken of; the other, an auxiliary fan blower, sending air into all the fire-boxes. The top of the furnace was left open, and a column of air bearing pulverized ore, driven directly from the *pulverizing mills*, down through the center of the perpendicular flue.

The operation of this machinery balanced and regulated the force of the draft so well, that while ore-dust was driven in at the rate of 1,200 pounds an hour, carrying with it an excess of atmospheric air, if a side door of the descending flue were opened, a feather would float in the opening without being blown either way.

We then discovered that the immediate quenching of the fused particles of ore, by the water in the pool and in the chamber beyond, was essential to a thorough separation of the metals. The heated particles on touching the surface of the water are explored into still minuter fragments, a degree of fineness unattained by any other means. *The entire apparatus is constructed with a view to this result.*

The water lining the bottom of the flues is a circulation completed by an outside canal. The water thrown up from the copper dash wheel, returning circuitously, falls back into the furnace pool. This water, after some time working of the furnace, is of course charged with sulphates of iron, copper and other metals. The insoluble metal falls to the bottom with the sediment, which is composed chiefly of silicia and iron. In this sediment the gold will be found ready for washing and amalgamation.

The sediment is drawn out by the workmen as fast as it accumulates, through the submerged arches on which the brick flues or water chambers are established.

The condition of the sediment is that of a smooth plasma without grit or coarseness of grain. Using only floating dust, ten tons can be worked in ten hours with these results, in a furnace of the size indicated. More extensive machinery would give larger returns.

We built our flues and water beds under the furnace and also under the horizontal brick archway leading therefrom to the spray-wheel, of common brick, thickly covered with ordinary hydraulic cement. We found this a very good lining for the descending flue or "drop." The spray chamber beyond the dash wheel was built of wood, over a brick and wooden water channel 75 feet long, 6 feet wide, from 20 to 30 feet high. This was filled with vapor of water and sulphurous acid from the furnace pools, which made a fine rain, carrying down any minute ore-dust which might escape the action of the dash wheel, also condensing large quantities of sulphuric acid from the sulphurets.

The gold ores most free from sulphurets are easily worked. When the sulphuret is in excess, the supply of air and moisture must be proportionately large.

In regard to fuel, the finer the ore-dust before burning, the more economical the process.

In places where wood alone is accessible for fuel, the fire-boxes should be from 29 to 30 inches deep, below the fire-bridges; 8 inches for coal.

Crushing machinery.—For crushing gold ores previous to fine grinding, any ordinary machinery may be employed that will reduce them to pea or gravel-size, as they must not be larger than this before entering the *pulverizer*.

The crushing mill used by us is a patented invention of my own. It consists of a very heavy and solid bar of wrought iron, revolving in the bottom of a cast iron tub as close as possible to the sides and bottom of the tub.

This bar carries at either extremity a hardened steel or chilled-iron plate, with a cutting edge welded to a soft iron back to prevent rupture.

The sides of the tub are pierced with holes from an inch to half an inch in diameter, forming a coarse sieve.

Two of these bars may be used crossed, working *four* cutters, held together by a cast iron center piece of great strength and solidity, through which an upright shaft passes, furnished with a step and a pulley. The speed of these cutters is a little more than 10,000 feet a minute. The broken pieces of quartz are thrown out of the holes in the side of the tub at the rate of *five* tons an hour.

Pulverizing machinery.—The pulverizing of the crushed ore is performed by flat plates of thin iron faced with chilled iron, attached to radiating arms; somewhat like the paddles of a steamboat wheel. These revolve inside of a cast iron drum, as close as possible to the sides and very near its circumference. A horizontal shaft passes through the center of the drum.

The material, gravel size, is poured in on one side at the axis by an automatic hopper, which measures the quantity.

A powerful draft of air, forced through the machine by a fan blower, forming an essential part of the apparatus, draws out the dust through a hole on the opposite center of the drum, where the shaft also passes.

The dust is then carried by this fan blower and driven into the top of the furnace. The minimum rate of delivery for a mill of ordinary size is 1,500 pounds an hour.

Of this last machine I can not give you a more minute account, as its successful operation depends upon interior details, obtained by long and costly experiment. The maximum rate of production we have not yet ascertained.

All the new and important features have been patented by Col. J. J. Storer and myself.

As soon as possible, I will furnish you with working plans of the furnaces built and worked by us. We have ground the hardest copper ores of Vermont and the quartz of Nova Scotia in our pulverizing mills. I know of none more difficult of reduction.

BOSTON, Mass., March 5th, 1864.

*This furnace was built and worked in Charlestown (Mass.), in May, June and July, 1861.—J. D. W.

RIVER MINING.—The river mines throughout the State all promise well for a longer summer's work than they have had for some years. On Feather river we hear that prospectors are pitching in lively on the bars and beds with favorable indications. Sand packers are numerous, and appear to labor willingly. The river itself is lower than it has been for several years and that Scott river is receding very fast, and the miners will soon be in the stream, for the longest summer's work, probably, that has ever been known on Scott river, resulting from the unusually mild winter just passed.

COAL IN USE.—The coal found some time since in Lyon county, (N. T.), and about nine miles from Dayton, improves as the mine is worked. The stratum is nine feet thick at the present depth of the shaft, some thirty-five feet. It has been tried in a blacksmith's forge and is said to be superior to charcoal, answering all the purposes of welding and working iron. It will probably be brought into general use. The several companies holding locations on the tract have, consolidated, and the claims will hereafter be operated under joint ownership.

A TUN OF COAL.—The U. S. Circuit Court at Philadelphia have decided that the weight of a tun of coal is 2240 lbs. instead of 2000 lbs. The judge ruled that a company of grocers might as well meet and agree to reduce the number of ounces in a pound and make the smaller number the standard of a pound for their customers, as for coal dealers to agree the weight of a tun shall be 2000 lbs., and furnish that amount to their customers.

GREENBACKS.—The Austin *Reveille* says that several superintendents of mines in that vicinity have come to an agreement with their workmen to pay in greenbacks, raising the rates of wages to make up for the difference between legal tenders and gold currency. A company in Hamboldt have adopted in their by-laws a provision that stockholders may pay their assessments in greenbacks.

FIRST MILL FOR MOUNT DIABLO.—The Open Sesame Gold and Silver Mining Company having worked three lots of rock, by different processes, and obtained over $40 to the ton in gold and silver from each working, have determined to erect a mill near their mine at Mount Diablo, immediately.

TUNNEL TIMBERS.—The Gould & Curry are at present receiving from saw mills in the vicinity of Washoe, a large lot of immense beams for the purpose of timbering up the chambers in their mine. The amount of lumber required by some of the companies on the Comstock is so enormous as to be almost beyond belief.

SAW MILL FOR SMOKY VALLEY.—Thomas Burns arrived in town yesterday morning, en route for Smoky Valley, where he is about to put up a steam sawmill of fifteen horse power, for Byron Nickerson, of Suisun, Cal., who is a large owner of timber there. A fifty inch saw will be run.

NEW COPPER SMELTING FURNACE.—Parties are erecting an immense smelting furnace above North Point Dock in this city, which will be used for the purpose of reducing copper ores.

Summary of Mining News.

CALIFORNIA.

Sierra.—The *Mountain Messenger* has the following:—

Fir Cap.—Some of the boys were out prospecting for quartz, recently, and found a good prospect. They took the Mexican plan of it, and said they panned it out in an hour. They are locating claims, and great excitement prevails on account thereof.

Purp Flat.—A new ledge has been opened at this classic locality by Cole & Blackner, the rock of which looks rich, much resembling those ledges which bear fine gold. The creek against this ledge in the cañon is reported to have paid very rich.

A ledge of fine quartz has been struck at Franklin Hill, in Plumas county, about eight miles from La Porte, specimens from which show rich in gold.

Poorman's.—This quartz ledge was discovered by a hard-laboring man named Waters, who prospected it and owns a claim of about 1,000 feet. It is said to be one of the richest ledges in the State, gold being smartly diffused throughout all the rock.

Howland Flat.—Since December last between $250,000 and $300,000 in gold have been taken out at this place.

On Sunday last we were visited by our regular storm of rain and hail, which lasted about two hours, raising the rivers considerably.

The Alsop Company at Allegheny will, it is said, soon recommence work on their ledges, and employ quite a number of hands.

WASHOE.

New Mill.—Mr. Inge & Paine are about to erect a new mill on American Flat, just beyond Reed's mill. Most of the machinery is on the ground,

Crown Point Ravine Co.—This claim has already been pretty thoroughly prospected by its tunnel, and the company is now going at the work, and to the expense of erecting machinery, with a pretty clear knowledge of the worth and value of the mine. The machinery will be taken over from this city.

The Hawley Company last week struck what is supposed to be a very good ledge, in the incline, at a depth of about 200 feet. A drift into the ledge 30 feet has failed to develop the west wall. This is considered a very important development, as indicative that valuable ledges may exist in Spring Valley district, confidence in which has for some time been wanting. This discovery will operate as an encouragement for assuming operations on several claims, which have been lying idle for some time.

Dall's Mill, located near Franktown, in Washoe Valley, is spoken of by the Virginia *Union* as one of the most extensive and complete milling establishments in the Territory. The main buildings are near 300 feet in length, with a wing of 100 feet. The process of dry crushing is employed here. Connected with the establisbment are eight roasting furnaces, which are kept in constant operation, night and day. So great is the heat in this part of the work, that the workmen are obliged to relieve each other every few minutes. Eighteen Frieberg barrels are employed for amalgamating. Every possible convenience is employed to save manipulation in the various processes of drying, stamping, roasting and amalgamating. The mill has mostly been employed upon the better class of ores of the Gould & Curry, Savage, etc. Ores are sent to this mill which cannot be worked by the pan process, without previous roasting. The proprietor guarantees to deliver, in bullion, 80 per cent. of the assayed value of the ores. He proposes to erect a battery for wet crushing, with amalgamating works to correspond. The machinery is driven by a water-wheel 40 feet in diameter, equivalent to a 125-horse power engine. The mill employs about 90 men, in addition to its outside force of wood cutters, teamsters, etc.

The Andes.—This claim, which adjoins the Jewett & Shepard on the South, have struck a fine ledge of rich silver-bearing quartz.

Work has been resumed on the Baltic claim.

Steam Up.—The Overman Company got steam up for the first time on their new machinery, on Monday last.

Milton Company.—This company keeps at work in its west drift, and have now run it about forty feet into the quartz of the ledge, which it struck about a week ago. The quartz is still of about the same quality, and has about the same appearance as that first found. It is all brown gold-bearing rock, and apparently contains a good quantity of that mineral. The developments thus far has shown that there is an enormous mass of quartz down there, be its quality what it may.

Savage Company.—The work on this company's mammoth shaft is being steadily carried forward. It is now ninety-three feet. The company will soon put up machinery. They still continue to take out rich rock, and can well afford to put up machinery.

HUMBOLDT.

The workmen on the Yosemite, have uncovered a ledge five feet in width, with a two foot vein of mineral running through it. Their tunnel is in 97 feet. The work is carried on under the supervision of Mr. W. W. Woodman.

Work in the Star tunnel has commenced, and is driving ahead rapidly; in about 20 feet.

Nearly all the lumber for the Sheba mill has been delivered, and workmen are busy getting it into shape for erection.

The Pine Wood Mines still appear to be attracting much attention. A gentleman just in from that direction informs the editor of the Virginia City *Pioneer* that Mr. Sheba Hurst, the original locator of this district, has gone out to meet a large consignment of ore from the General Grant, Sheba Hurst, Cravanna, Grand Consolidated, and many others, the richness of which has already been tested, but the quantity now on the road will place beyond all controversy the fact of the richness of the district. Several sales of mines in that district have already been consummated at good figures, and it is thought that this will eventually prove one of the richest mining districts in Humboldt county.

REESE RIVER.

An increased activity, according to the Reese River *Reveille*, is beginning to be observed among the miners in the vicinity of Austin. For several months past a confidence, amounting almost to certainty, has been felt in the ultimate value of ledges where traces of silver could be found in the surface rock. When the owners of the North Star and Oregon went down on their lodes below the water line and found the remarkably rich ores that have since given their claims so high a reputation, it gave encouragement to others to do the same. Many others have gone below the water line and have their lodes regular, with a good pitch, and bearing the most valuable class of ores known. This universal success has impressed miners with the belief that good claims are the rule and poor ones the exception. The mines are certainly all that need be required, and the mill improvements now in progress will enable miners to place their claims in first class condition.

Lucretia Lode, Summit District.—Work has recently been resumed on this lode, and at a depth of 65 feet, it is found to be seven feet in thickness, and pays at Brooks Mill an average of $60 per ton. Selected rock will go much higher. The company own a good water-mill site, upon which they propose to put up machinery.

McManus Lode, Lander Hill, is owned by a San Francisco company, who are developing by an incline, now down about 65 feet. The vein is about one foot in width, and producing rock estimated to be worth about $60 per ton.

In the Canon, the mill men are generally engaged in making improvements for the more thorough working of the ores placed in their charge. The California Mill Company are erecting two first class reverberatory roasting furnaces and are also preparing their mill for dry crushing. The furnaces and chimneys are being built of stone, the fire-place and arches will be constructed of fire-brick, manufactured in upper Austin for the purpose. The first rock to be worked in them will be from the Maggie lode. In a few days the mill will commence work on the rock from the Whitlatch of Yankee Blade. The Rhode Island Mill Company are also erecting roasting furnaces, and are making preparations for more improvements. The Union Mill is busily engaged in working rock from the Morgan & Muncey claim, and is doing excellent work with it. About three tons of ore are crushed every twenty-four hours; paying near $500 per ton.

The Roanoke.—The Pioneer Mill recently crashed a lot of rock for this mine which paid, as selected, from $100 to $400 per ton—averaging $125. They are now down about 80 feet below the level of the tunnel from which it is started, and in every foot increases in favorable appearance.

Union Tunnel.—One of the great enterprises of Reese River District is the Union tunnel. It is running into Austin Hill, and if prolonged, will pierce all the best lodes known. It is now in 425 feet and about 80 feet below the surface. A few small veins have been struck, but nothing of value. It is expected to reach the Gov. Seymour in a short time, then the Southern Light, North Star, and many others. Those claims will be thus opened at a great depth and will effectually drain them, if not offering advantages for working.

Diana Lode.—The prospectors upon the Diana have lately struck a good quality of rock in their incline, below the water line, containing a large quantity of black sulphurets with some pyrites of iron. The location is a short distance southwest of the Morgan & Muncey.

Liberty Lode, San Antonio.—Five tons of rock from this lode have recently been crushed, at the Washington Mill, which yielded, according to the *Reveille*, $1,047 in silver—$209 per ton. There has several small lots of rock from San Antonio lately been crushed at the same mill, generally with very good results—from $200 to $1000 per ton.

Caledonia.—The Caledonians are reported to have made a very rich strike, the workmen claiming that it excels the North Star rock, or any other yet found in the vicinity. The incline is now down 150 feet, and of course a long way below the water. The lode is quite a large and strong one, all of which will pay well, besides having a stratum of ten inches in thickness that is almost a solid mass of sulphuret and antimonial ore, with a great many fine specimens of iodide of silver.

The Silver Circle belongs to an incorporated company, and is considered a promising claim. The incline is down about seventy feet, where the lode is about one foot in width, and produces some first quality ore. It is said that no claim in its neighborhood has gone below water without finding the same quality of rock and the varieties of ores.

A Valuable Mine.—It is stated that the Morgan & Muncey claim, Reese River, nets its owners about $1,000 per day. Messrs Morgan & Muncey own the entire claim, which contains 400 feet, and is not incorporated. The number of largely paying unincorporated claims far exceeds the number of such claims having a corporate existence.

El Dorado Cañon.—The Los Angeles *News* of June 4th says: Mr. H. R. Porter, Superintendent of the "Independence" Gold and Silver Mining Company arrived here on yesterday with a large number of "gold bricks"—one hundred pounds and one ounce of bullion, the product of the mine above named. The sight of the "oro" has caused no slight change in the minds of skeptics. Every body in the cañon was prosperous, and the miners were all greatly encouraged. A large number of lodes have been opened to a sufficient extent to guarantee a constant flow of the precious metal from the above mentioned locality, so soon as mills can be erected and set in motion. The same paper gives the following from

Holcomb Valley.—A gold bar, weighing several ounces, made its appearance here a day or two since, the product of the "Green" lode, Holcomb Valley, which is now being worked with much success. Several new discoveries have been recently made in the valley, among which is a rich extensive copper ledge.

From the "Moss."—A quantity of rich ore, in sacks, from the Moss ledge, has arrived in this city by last steamer from southern ports, consigned to W. T. Coleman & Co.

More Rich Silver Ore.—A load of silver ore, from the Techattucup mine, says the Los Angeles *News* of June 2d had just arrived there *en route* for this city.

Rich Rock.—Six hundred pounds of rock from the excelsior Company, Silver King district, are now en route for this city for assay. In appearance it is said to be exceedingly rich.

New Quartz Mill.—Wood, Marston & Dudley are about erecting a mill at Diamond Hill, Crow's site, on the East Carson, about 3 miles from Monitor. One of the partners is in this city to purchase machinery. The rock to be crushed by this mill comes from Boulder Hill, and by the arastra process of working is now paying $80 per ton.

Silver King District.—This rich mineral district says the Monitor *Gazette*, was discovered in the autumn of last year. The town of Silver King lies about ten miles from Monitor, in a southerly direction. Through this district flows the East Carson, furnishing ample power for mining and milling purposes. There are six hundred claims recorded, some few of which have already expended considerable labor, the Excelsior having a tunnel two hundred feet in length, the Chapelle two hundred and twenty feet, and the Rising Star has just commenced sinking. Twenty-five companies are incorporated, their business offices being at Silver King. T. B. Cummings is the Recorder.

The Golden Age and Empire.—A large portion of the rock which is now being taken out of this mine is said to be of extraordinary richness. Very little waste rock comes out; nearly every pound being sufficiently rich for profitable crushing.

ESMERALDA.

Rock of extraordinary richness was struck in the old Ural shaft, belonging to the Del Monte mine, sometime last week. The precious metal could be seen all through it. The Ural company had missed it when going down. The lead is said to be about three und a half feet thick, showing much gold.

Bullion.—From the 1st to the 31st of May, according to the *Times*, Messrs. Krauss and Reese assayed one hundred and thirty thousand five hundred nnd thirty-nine dollars of bullion. The same rate monthly would amount in twelve months to $1,566,468 00. This it must be remembered is only from one assay office. The amount assayed last month is not a fair criterion by which to estimate the probable sum of twelve months, because the yield of the mines is all the while on the increase. We have many reasons for believing that the mines will yield this year over two millions of dollars.

Gold in Ancient Times.—Whatever may have been the source whence the ancients obtained their gold, there is evidence that this metal was admired and valued by them as much as it is at present. Many of the accounts given by early writers dnzzle us into the supposition that the stores of gold in those days were much larger than can be commanded at present. Thus Semiramis is said to have erected statues of Jupiter, Juno, and Rbea, forty feet in height, and made of beaten gold. Drinking-vessels made of gold, and weighing twelve hundred talents, are also spoken of. The sumptuous display of precious metals in the palaces of the great are frequently alluded to; but it has been aptly observed that the quantity diffused among the bulk of the English population at the present would make a sum total far outbidding the golden wreath of those earlier days, though less obvious and glittering from being so much more diffused.

Suggestions About Advertising.

Advertising at the Mines.—Companies whose notices are required to be published in the county in which the mine is located, should be careful to have their advertisements forwarded in season.

No Assessments should be levied upon Friday where the publication is to be made in the issue of a paper published on Saturdays only, at the mine or elsewhere.

On Record.—As a large proportion of our edition will be bound and preserved in volumes, those who patronize our columns will have their advertisements preserved with a valuable record.

For Serving Personal Notices.—Secretaries patronizing the Press can have their advertisements neatly printed upon slips at $1 per hundred.

Advertising Blanks for Secretaries who design publishing notices in the Press, sent to order or furnished gratis, upon application to the office.

The Earlier the Better.—Our advertisers are requested to send in their favors as early as practicable.

Report Your Experiments.—How much that is learned by our intelligent and successful miners and mill men, is never communicated. Experiments are constantly going on, often with important results, which would impoverish no one, hy being made public, while they might save thousands to the State if they could only he made generally known. We are quite confident that there are many who possess valuable information, acquired from experience, who have no objection to making the same public, and who do indeed, communicate it to their immediate neighbors; but no farther. Here is valuable information. Why not report your experiments through the Mining and Scientific Press, the accredited organ of the miners of this State? Tell us how you get certain results, that others also may profit. You have no fears of competition. The material you are producing—gold, silver and copper, are always in demand; there is no danger that the market will be overstocked; they will always sell. It matters not if you communicate in a hurried way, so you only send us facts. We will put the same into readable shape. Report your experiments.

This journal comes to us this week with a new head and enlarged to the full size of the *Scientific American* published in New York—sixteen pages. Those who take an interest in mining, industry and art should not fail to read the prospectus of the Press, which may be found in our advertising columns, and those who may desire to see copies, intending to subscribe, will have specimens sent free on application by letter to the office of publication.—*Mountain Messenger, La Porte.*

The Mining and Scientific Press Patent Agency,

OFFICE, 57, GOVERNMENT HOUSE, SAN FRANCISCO.

Information About Obtaining Patents.

The Patent Law Amendment Act, of March 4th 1861, and March 3d 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent? A positive answer to this question is only to be had by presenting a formal application for patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the Mining and Scientific Press. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Preliminary Examinations.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search made at the U. S. Patent Office, Washington, through the medium of our associate in that city, to ascertain whether among all the patents and models there stored, any invention can be found which is similar in character to that of the applicant. On the completion of this special search we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollars. This search, though it involves the expense just named, will usually prove satisfactory. If the same device has been before patented, the time and expense of constructing models, preparing documents, etc., will in most cases be saved; if the invention has been in part patented, the applicant will be enable to modify his claims and expectations accordingly. Many other obvious advantages attending the Preliminary Examination; although the strictest search does not always enable the applicant to know positively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publication; or some other person has been previously rejected on an analagous device; or some other invention for a similar purpose, but partially resembles the applicant's in its construction; or the Government makes an unjust or uncommon decision. Against none of these contingencies does the Preliminary Examination provide; it will, however, generally inform the applicant whether an improvement similar to his and used for the same purpose has ever been patented or not in this country.

Persons desiring the Preliminary examination are requested to remit the fee ($10), and furnish us with a sketch and description of the invention.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is charged. English, French, German, Russian Spanish, and Inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens The only discrimination made is against subjects of government that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the instruments and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues.—If the application is rejected we cause a thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have access to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client. For this service we make no charge. If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge only a per cent age on the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their appreciation of their merits, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The laws requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimensions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: Dewey & Co., Mining and Scientific Press, rooms 56 and 57, Government House, corner of Sansome and Washington Streets, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail—The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and attidavit, with a letter of instruction, etc. Our fee for preparing the case is then due, and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued, the applicant will be notified to remit the last installment of the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months and even more. We make a special point to forward our cases as rapidly as possible.

Return of Models.

Under the new law, if the applicants case has been rejected he is entitled to withdraw his model from the Patent Office.

This law applies to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expense

Application for Patents, Designs, Trade-Marks, Labels, etc.

Under the new law patents may be taken out for any new form of any article, also for tools, patterns, castings, machine-frames, stove-plates, borders, fringes, all new designs for printing, weaving or stamping upon silks, calicoes, carpets, oil-cloth, prints, paper-hangings, and other articles. Trade-marks, labels, envelopes, boxes and bottles for goods, may also be patented; likewise all works of art, including prints, paintings, busts, statues, bas-relief, or compositions in alto, or basso relievo, new dies, impressions, ornaments to be placed upon any article of manufacture, architectural work, etc.

Our facilities for the prompt preparation and securing of patents are of the most extensive character and our charges are very moderate.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the tariff of fees established by law:

On every application for a design, for 3 years and six months...	$10
On every application for a design, for seven years	15
On every application for a design, for fourteen years	30
On every caveat	10
On every application for a patent	15
On issuing each original patent	20
On filing a disclaimer	10
On every application for a re-issue	30
On every additional patent granted on a re-issue	30
On every application for an extension	50
On the grant of every extension	50
On appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, D. C.	25

Infringements.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunction from the Court, to an arrest of or prohibition from the employment of his machinery, shop, works, factory and men in production of the article.

In addition to injunction the infringer is liable to be mulched in treble the amount of damages awarded by the jury. The maker, the workman, the seller, and the purchaser, if a user, are all liable either collectively or individually.

Having access to all the patents, models, public records, drawings and other documents pertaining to the Patent Office, we are prepared to make examinations and give opinions upon all infringement questions, advise as to the scope and ground covered by patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Appeals.

In rejected and other cases, the new law provides for an appeal from the Examiner-in-chief to the Commissioner in person, on the payment of a fee of twenty dollars. A further appeal may be taken from the decision of the Commissioner to the U. S. Court, of the District of Columbia. These appeals are heard by any of the Judges before whom the applicant elects to bring the case. No Jury. All the papers, models, etc., are sent by the Commissioner to the Judge, who then reviews the case, and either sustains or reverses the Commissioner's decision.

The party taking the appeal pays an additional fee of twenty-five dollars. The Judge appoints a day of hearing. The applicant can appear in person or by counsel to state his case and file a written argument. Five days are allowed the opponent to put in an answer, and a similar period to the appelant for a closing reply.

Many important cases are brought before the Judges on appeal and the decisions of the Commissioner are not unfrequently reversed

We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, Government House, corner San some and Washington streets, San Francisco.

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the non-qualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. The Mining and Scientific Press Patent Agency has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

Notice to James M Ross, or his Heirs:—You are requested to call at this Office, where information of importance awaits you. Said Ross left San Francisco, in June last, for Noyo Ills.

Before Cutting the Leaves of this journal, stitch each No. through the back, or fasten with a large pin, and you will have a paper in the most convenient form possible for reading or reference

We note with pleasure recent improvements in this publication. With the new year, it becomes a sheet of sixteen instead of eight pages, and has a more attractive typographical appearance. C. W. M. mith. W. B. Ewer, and A. T. Dewey are the publishers under the title of Dewey & Co. We notice that several distinguished occasional contributors have been engaged to add to the interest and value of the paper. We wish the enterprising conductors continued success. Their influence in the relation to the mining interest of this Coast is excellent and important; and they deserve, as no doubt they will receive, a large patronage from a numerous public, interested in the development of mineral wealth.—*The Evangel, S. F.*

We desire to call the attention of our readers to the advertisement of the Mining and Scientific Press, published at San Francisco. It tells its own story, and leaves nothing for us to say, except that it is the best journal of the kind now published, and ought to be patronized liberally by the merchants, miners and scientific men generally on the Pacific coast. The editors are reliable gentlemen, and well qualified for the task they have undertaken.—*North San Juan Press*

Black Sheep.—James H. Shepard, having received subscriptions for this paper in May last, and failed to account to us for the money received, we are under the necessity of announcing him as a "defaulter." Parties holding his receipt, prior to this notice, for the Press will be supplied with the subscription due by addressing us.

We are pleased to welcome this excellent paper in its handsome new dress and enlarged proportions, the energetic proprietors having commenced its eighth volume with a double-sheet.—*Ione Chronicle.*

This valuable mining journal comes to us this week in a new dress and wears a very happy face. The improvements in that paper cannot but bespeak for it a liberal patronage of all those interested in mining—and who is not in this age and country?—*The Gleaner.*

Mr. A. T. Dewey, a journalist of experience, has become associated with Messrs. Ewer and Smith in the proprietorship and conduct of this paper. It inaugurated the new year by doubling its size and other improvements, and is now a first class journal for miners and mechanics, as well as for the general reader.—*Sacramento Daily Bee*

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and the Place of Business of the Corporation if it is not in San Francisco.

REVISED EVERY ISSUE.

Advertised in the Mining and Scientific Press
AND OTHER SAN FRANCISCO JOURNALS*.

NAME, LOCATION & ASS'T.	DATE OF ADV'G—DAY OF SALE.
Aspinwall, Reese River, 50c	Adv July 15—Sale Aug 3*
Adelaide Consolidated, 50c and 50c	Adv. May 28—Sale June 27*
Agamemnon, Inyo	Adv. May 28—Sale July 6*
Augusta, Augusts, 12½ cents	Adv. May 21—Sale July 25*
Arizona Cons., Eureka, 20 cents	Sale June 23
Argent Oro, Reese River, $1	Sale June 18
Alemania, San Antonio, $2	Sale June 18
Arizona, Weaver, $1	Adv. June 13—Sale June 27
Arizona, Weaver, 50 cents	Sale June 25
Apache Chief, La Paz, 50 cents	Sale June 27
Ætna, Esmeralda, $2	Adv. May 20—Sale June 22
Antrim Cons. Slate Range, $1	Adv. May 21—Sale June 22
Augusta, Calaveras county, $1	Adv. June 28—Sale July 13
Alameda Coal, Alameda county, $1	Adv. June 25—Sale July 9
Appollo, Silver Mountain	Sale July 5
Apache Wido West, La Paz, 50 cents	Adv. June 27—Sale July 8
Apollo, R. R.	Annual Meeting July 4
Arbitros, Batopolis, Mex., $2	Adv. July 11—Sale July 23
Alhambra Hill, Summit, $1	Adv July 10—Sale July 23
Alban, $20	Adv June 16—Sale June 28
Agawam, Nye County, $1	Adv July 23—Sale August 10
Bodie Cons., Mono co., 50c	Adv July 13—Sale July 25*
Bay State, Tuolumne co., $2	Adv Jmne 11—Sale July 11*
Baltimoro, Alpine county, 25c	Adv. June 25—Sale July 15*
Brooklyn, Reese River, 50c	Adv. July 2—Sale July 16*
Blue Jacket, Devil's Gate, 25 cents	Adv. June 25—Sale July 9*
Blue Dragon, Inyo, 20 cents	Adv. June 25—Sale July 29*
Brewer, Silver King, 15 cents	Adv. June 25—Sale July 7*
Big Blue Lead Coso, $1	Adv. June 17—Sale June 28
Black Ledge, Reese River, 50 cents	Adv. July 2—Sale July 16
Black Ledge	Annual Meeting July 4
Black Prince, R. R., 50 cents	Sale June 20
Bench & Paxton, Virginia, $3	Adv. July 6—Sale July 23
Black Rock Ledge, R. R., $1	Adv. June 15—Sale July 2
Barreteros, Cosala, Mexico, $5	Adv. June 15—Sale June 29
Butte, Santa Clara, $1	Adv. June 18—Sale June 29
Bajazett & Golden Era Cons., $5	Levied May 13, Virginia
Blue Ledge, Lovoll, R. R., 50 cents & 50 cents	Sale June 25
Badger, Washington, 25 cents	Adv. June 11—Sale July 1
Beu Bold, Washington, 15 cents	Adv. June 21—Sale July 15
Bixler, $2	Adv. June 27—Sale July 18
Boston, Ohio, 50 cents	Adv. June 29—Sale July 12
Baltimore American, Gold Hill, $5	Adv. July 1—Sale July 15
Beard & Seaver, R. R., 50c & 50c	Adv. June 2—Sale July 2
Buckeye, Devil's Gate, 8½	Adv July 9—Sale July 20
Beaver, $1	Adv June 6—Sale June 20
Beard & Seaver, R. R.	Annual Meeting July 5
Baja California, San Antonio, 50c	Adv July 10—Sale July 20
Black Hawk, Chinchwavo	Annual Meeting June 28
Bacon	Semi-Annual Meeting June 24
Copp, Humbolt, $1	Adv July 16—Sale July 30*
Constitution, Lander co	Sale July 13*
Coso, Tulare county, $1	Adv. July 2—Sale July 16*
Carroll, Reese River, 50c	Adv. July 2—Sale July 16*
Charter Oak, Santa Catalina	Adv. June 4—Sale July 6*
Calcdonia	Sale June 18*
Cortez, Cortez district, $2.50	Sale June 23*
Chicago, Reese River	Annual Meeting July 4
Copp, Sierra	Sale June 25
Cinuabar, Virginia, 50 cents	Sale June 18
Crown Lead, Mariposa county, $1	Sale June 18
Center, Empire, 25 cents	Adv. June 27—Sale June 27
Comopolitan, Inyo, 50 cents	Adv. June 18—Sale July 2
Caselli, Indian Springs, 25c & 25c	Adv. May 20—Sale June 22
Chrysopolis, Low Divide, 30 cents	Adv. May 24—Sale June 22
Coral, Amador, $3	Adv. June 27—Sale July 9
Caledonia, Gold Hill, $3	Adv. June 24—Sale July 6
Calaveras Iron Mountain, Cornwall, 50c	Adv. June 28—Sale July 13
Comet, 10 cents	Adv. June 25—Sale July 6
Cinco Senora	Meeting June 27
Chrysopolis, Low Divide, 25 cents	Levied May 25
Cossette, Arizona Territory, $1 & $1	Adv. May 29—Sale June 29
Ciruelo Gordo, San Antonio, $1	Adv. July 2—Sale July 14
Commercial, Santa Catalina, 10 cents	Adv. July 2—Sale July 16
Commerce, R. R., 50c	Adv June 4—Sale July 9
Cox & Rose, R. R., $2	Adv. July 2—Sale July 15
Crown Lead, Mariposa co., $1	Adv June 4—Sale June 28
Caledonia, G. H., $5	Adv June 4—Sale June 22
Camargo, R. R.,	Annual Meeting, July 5
Codicia, San Antonio, $2	Adv July 9—Sale July 22
Chipionena, Mex., $2	Adv June 9—Sale June 18
Cold Springs, C. S., 20c	Adv July 7—Sale July 20
Comstock, San Antonio, $4	Adv July 13—Sale July 28
Cedar Hill, Virginia, 50c	Adv July 2—Sale August 3
Colorado, El Dorado Canon	Meeting July 13
Cloverdale, Cloverdale, 25c	Adv June 16—Sale July 16
Carlton, Weaver, 50c	Adv July 13—Sale July 25
Cox & Rose, R. R., $1	Adv July 12—Sale July 27
Cole, Virginia, $1	Adv July 18—Sale Aug 3
Capital, R. R. 50 cents	Adv July 16—Sale July 30
Dexter T. & M., R. R.	Adv June 11—Sale July 11*
Delta, Lander co., 50c	Assesfment Adv June 11*
Diamond, Santa Catalina	Adv. June 4—Sale July 6*
Dunkirk, Reese River, $1	Adv. May 18—Sale June 24
Diaua, Reese River	Aunual Meeting July 4
Don Juan, Mochlcabue, Mexico, 15 cents	Sale June 21
Dan'l Webster, Devil's Gate, $1	Adv. June 25—Sale July 16
Downey	Meeting June 30
Daniel Webster, Sac., 30 cents	Adv. May 25—Sale June 25
Don Juan, Silver Mountain, 50 cents	Adv. June 25—Sale July 9
Daniel Webster, Devil's Gate	Annual Meeting June 23
Dianna, R. R., 50c	Adv July 6—Sale July 18
Dubuque, Galena, $1	Adv July 14—Sale July 30
Dacota, R. R., $1	Adv July 12—Sale July 27
Dan'l Webster, Devil's Gate, $1	Adv June 20—Sale July 2
Egery, Tulare co., 10c	Adv July 16—Sale July 30*
Empire, Rock Spring, 5c	Adv. July 2—Sale July 16*
Excelsior, Reese River District, 25 cents	Levied March 22*
El Dorado, Virginia, $2	Adv. June 8—Sale June 22
Emelia, Guerro, Mex	Annual Meeting June 20
El Tesoro, La Paz, Mex	Adv July June 5—Sale July 5
El Tigre, $12	Adv July 8—Sale July 19
Ethau Allen, R. R.,	Adv July 11—Sale July 29
El Alamo de San Antonio, San Auto., $1	Adv. June 10—Sale June 25
Exchange, Low Divido, 13 cents	Levied April 21
Eclipse, Russ, $5	Sale June 25
Empire, Santa Cruz, 25 cents	Sale June 22
El Dorado, Virginia, $2	Sale June 22
Evening Star, Trinity	Meeting June 30
Echo, Gold Hill, $3	Adv. June 16—Sale July 1
Eclipse, Sierra, 50c	Adv. June 16—Sale June 29
El Taste, Sonora, Mexico, $5	Adv. June 16—Sale June 27
Erie	Meeting June 20, Austin, N. T
El Taste, Sonora, Mexico, $4 37½	Adv. June 20—Sale June 30

Those marked with an asterisk (*) are advertised in this journal.

Eastern, R. R., $1 ..... Adv. May 30—Sale June 29
Empire State, Contra Costa county ..... Assessment 10 cents
El Toro, Mex , $1 ..... Adv July 16—Sale July 30
El Dorado, Virginia ..... Quarterly Meeting July 6
Forest Queen, Amador Co., 50 cents ..... Adv July 16—Sale August 1*
Fortune, Calaveras County, 50 cents ..... Adv July 23—Sale August 3*
Fork, Blue Mountain ..... Adv. June 17—Sale July 6
Franco American, San Antonio, $10 & $1 ..... Adv. May 18—Sale June 18
Flor do San Antonio, Mexico, $1½ ..... Adv. June 25—Sale July 7
Federal & Republic, Virginia, 50 cents ..... Adv. May 27—Sale June 27
Fairview, R. R., 25 cts ..... Adv. July 2—Sale July 16
Fairview ..... Adv. June 1—Sale July 1
Gobernadora, Lower Cal., 70c ..... Adv July 16—Sale Aug 1*
Good Return, Cons., Tulare co., $1 ..... Adv July 16—Sale July 30*
Gertrude, R. R., 25c ..... Adv. July 2—Sale July 16*
Gold Rock, Calaveras county, 50c ..... Adv. July 2—Sale July 22*
Great Central ..... Adv. May 20—Sale June 29*
Great Central Tunnel, Virginia, 40c ..... Adv. June 18—Sale July 6*
Green Monster, Inyo, $1 ..... Sale June 22*
Governor Downey Cons., Buena Vista, $1 ..... Adv. June 23
Caribaldi, Aurora ..... Sale June 29
Goodwin, Simpson Park, 25 cents ..... Sale June 18
Guadalupe de Los Angeles, Durango, $1 ..... Sale June 21
Gov. Seymour, R. R., 50 cents ..... Adv. June 23—Sale July 7
Gov. Seymour ..... Annual Meeting July 4
Good Hope, Alpine, 75 cents ..... Adv. June 4—Sale July 18
Gold Hill, Gold Hill, 50c, 50c, 50c & 50c .. Adv. May 28—Sale June 30
Great Cons., Boise River, Placer ..... Adv. May 28—Sale July 16
Gold Hill Big Ledge, Gold Hill, $5 ..... Adv. June 30—Sale July 15
Good Hope, Alpine, 75c ..... Adv June 11—Sale June 25
Gobernadora, S Antonio ..... Annual Meeting June 20
Gen'l. Hill, Summit, 25c ..... Adv July 10—Sale July 23
Guadalupe del Agmajato ..... Meeting July 18
Gen'l. Jackson, Devil's Gate, 50c ..... Adv July 2—Sale July 16
Gold Hill Tunnelling, Gold Hill ..... Annual Meeting July 16
Heidelberg, Marin co., 10c ..... Adv July 9—Sale July 23*
Henry & Barnard, Weaver, 20c ..... Adv. July 2—Sale July 8*
Hyack, Reese River, 20c and 30c ..... Sale June 15*
Highland Chief, Raymond, 25c ..... Adv. June 14—Sale July 2
Hayward, Gold Hill, $1 ..... Adv. June 7—Sale July 18
Henry Clay, Great Mogul, 50 cents ..... Adv. May 28—Sale June 25
Halleck, Monotor ..... Annual Meeting June 21
Halc & Noreross ..... Adv. June 27—Sale July 16
Harker, R. R. ..... Annual Meeting July 4
Honest Miner, R. R ..... Annual Meeting July 4
Hornitas, Mariposa, $5 ..... Adv July 10
Hanscom, Low Divide, 25c ..... Levied June 9
Hornitos, Hornites $5 ..... Adv July 16—Sale July 30
Horton ..... Annual Meeting July 6
Hinehman, El Dorado co., $4 ..... Adv July 20—Sale July 30
Hornitos ..... Special Meeting June 21
Illinois, Lander county, 50 cents ..... Sale June 25*
Itasca, Reese River, 40 cents ..... Sale June 22*
Insurance, Virginia ..... Annual Meeting June 27
Insurance, Virginia, $1 ..... Sale June 20
Iowa, Esmeralda ..... Sale July 2
Imperatrice, Eugene, Blue Mountain, 30c .. Adv. June 11—Sale June 22
Independent, R. R., $5 ..... Levied May 6, Gold Hill
Independent, R. R., $1 ..... Adv. June 21—Sale July 9, Gold Hill
J. C. Fremont, Silver Mountain 4 ass'ts at 25c .. Adv Aug 1—Sale Sept 1
Jewel, Devil's Gate, 1½ ..... Adv July 13—Sale July 25
Kelsey ..... Caution—Adv. June 18*
Kcokuk, 10 cents ..... Adv. June 25—Sale July 13*
Kentucky, Mme. Felix, 50 cents ..... Adv. June 28—Sale July 10
Kappa, Amador, 50c ..... Adv July 6—Sale July 19
La Candelaria, Mex ..... Adv July 16—Sale August 5*
Lapland, R. R., 10c ..... Adv July 2—Sale July 16*
La Marronena, L. C., $5 ..... Adv July 9—Sale July 9*
Laplaad, Reese River, 50c ..... Adv July 2—Sale July 16*
La Favorlta, Montezuma, Mexico ..... Adv. June 4—Sale June 18*
Lady Adams, R. R., 20c ..... Adv. July 2—Sale July 16*
Lafayette, Gold Hill, $5 ..... Adv. May 18—Salo July 1
Langhorne Cons., Summit, 50 cents ..... Sale June 27
Lady Bryan, Flowery, $3 ..... Sale June 25
Lochnvar, Gopher, 30 cents ..... Sale June 25
La Blanca, Uper Gold Hill ..... Sale June 22
Las Posas, La Paz, $1 ..... Adv. June 13—Sale June 25
Las Posas, La Paz, 50c ..... Sale June 27
Legal Tender, Amador, $1 ..... Sale June 22
Live Oak, Washington, 25c ..... Adv. June 11—Sale July 1
Lone Star, R. R., $1 ..... Adv. May 21—Sale June 22
Laura Hill, Soledad, 50 cents ..... Adv June 25—Sale July 9
Lonc Star, R. R., $1 ..... Adv. May 21—Sale June 22
La Providencia, La Paz, $1 ..... Levied May 16
Lady Bell, Del Norte county, 10c ..... Adv. July 6—Sale July 18
Lonisiana, R. R. ..... Sale June 21
Langhorne, Summit, 50c ..... Sale June 27
La Fernandes, Hermosillo, Mex., $4 ..... Adv June 4—Sale June 19
Laura Hill, Soledad, 50 cents ..... Adv June 7—Sale July 9
La Fernandes, Hermosillo, 50½ ..... Adv July 7—Sale July 21
La Chureas, San Antonio ..... Meeting July 10
La Chureas, San Antonio, 50c ..... Adv July 10—Sale July 20
Legal Tender, Amador $1 ..... Adv June 10—Sale June 22
Las Cruzecitas, Mex. $6½ ..... Adv July 13—Sale July 25
La Blanca, Mex. $2½ ..... Adv July 14—Sale July 26
Libertad, Mex ..... Adv June 15—Sale July 16
La Esperanza, Arizona ..... Annual Meeting June 28
Moscow, Esmeralda ..... Adv June 11—Sale July 15*
Mohawk, Reese River, 50c ..... Adv. July 2—Sale July 16*
Mt. Eden, Gold Hill ..... Caution, Adv. June 4*
Meder, Santa Cruz county, 15c ..... Adv. July 9—Sale July 25*
Monarch, R. R., 25c ..... Adv. July 2—Sale July 16*
Mechanics, Clayton, 5 cents ..... Adv. June 25—Sale July 13*
Mount Zion, Clayton, 50 cents ..... Adv. June 18—Sale July 6*
Mount Vernon, Smoky Valley, 50 cents .. Adv. June 11—Sale June 25*
Minnehaha, Reese River District, 25 cents ..... Levied March 22*
Mosquito, Calaveras County, $5 ..... Adv. June 11—Sale July 1*
Morning Call, Big Creek, 50 cents ..... Adv. June 11—Sale June 29*
Mount Eden, Gold Hill District, 50c ..... Adv. July 2—Sale July 18
Molones & Stanislaus, Carson Hill, $2.50 ..... Sale June 18
Mina Prieta, Ures, $40 ..... Sale June 18
Morning Star, Great Mogul, 25 cents, 50 cents, & 50 cents. Sale June 21
Melones Sink, Calaveras county, 15 csnts ..... Sale June 25
Monster, Cons. 25 cents ..... Adv. June 17—Sale July 2
Monte Cristo, Gold Hill ..... Adv. June 15—Sale July 1
Melonos & Stanislaus, Carson Hill, $2.50 .. Adv. June 4—Sale July 18
Mandot, Del Norte, 50 cents ..... Adv. June 15—Sale June 27
Mary and Estella, 15c and 10c ..... Levied Jan. 19 and Feb. 20
Mauchester, Monitor, $1 ..... Adv. June 21—Sale July 6
Mina San Felipe ..... Adv. May 21—Sale June 24
Minerva, Gold Hill, $25 ..... Adv July 8—Sale July 23
Mineral Mountain, Carson Hill ..... Sale June 25
Mountaineer, Humboldt county, 50 cents .. Adv. June 23—Sale July 6
Musidora, San Antonio, 50c ..... Adv. June 25—Sale July 13
Mohtor, R. R., $2½ ..... Adv. June 22—Sale July 9
Mina Rica de Las Flores, Calaveras county .. seven assessments $8
Mineral Hill, White Mountain, 40c & 50c .. Adv. June 1—Sale July 1
Minna Prieta, Ures, Mex., $40 ..... Adv. June 3
Monitor, R. R. ..... Annual Meeting July 4
Mina Prieta, Urcs, Mexico, $10 ..... Adv. June 3—Sale June 18
Madison, R. R. ..... Annual Meeting July 5
Medora, R. R. ..... Annual Meeting July 5
Minna Rica de Las Flores. $1, $1, $1 & $2 .. last Levied March 12
Melrose, Humboldt ..... Special Meeting, July 1, Humboldt City
Melrose, Humboldt ..... Sale July 2
Moss, Virginia, $5 ..... Adv July 12—July 23
Manzanillo, Mex ..... Semi-Annual Meeting June 23
Monte Christo, Virginia, $1 ..... Adv June 15—Sale July 1
Maria, Mex. 75c ..... Adv July 15—Sale July 30
Michigan, Gold Hill, $10 ..... Adv July 9—Sale at Gold Hill August 10
McClellan, Virginia ..... Meeting June 27
Nevada Copper, Crass Valley ..... Adv June 18—Sale July 2*
North Superior (copper), Plumas co ..... Annual Meeting July 4*
North Star, Santa Catalina ..... Adv. June 4—Sale July 6*
Noonday, Contra Costa county, 20 cents ..... Sale June 27*
North Star, Reese River. $2 ..... Adv. July 1—Sale July 15
North Star, Reese River ..... Annual Meeting July 4
Nevada, Justice, $20 ..... Levied April 9—Virginia
Nonpareil, Tuolumne co., $5 ..... Adv July 8—Sale July 26
North Eclipse, Russ, 10 cents ..... Sale June 20
North Lawrence & Gullford Cons. 50c .. Adv. June 15—Sale July 11
Norton, $1 ..... Adv. May 18—Sale June 18
Nelson Consolidatcd, Gold Hill, $2 ..... Adv. June 24—Sale July 7
New Year Diggings, Tuolumne co., $1½ .. Adv June 23—Sale July 13
Nevada, R. R. ..... Annual Meeting July 4
Nuestra Senora de Guadalupe, Mex., $6 .. Adv July 2—Sale July 16
New Era, Salt Springs ..... Adv June 7—Sale June 21
North Potosi, Virginia, $12½ ..... Adv July 16—Sale July 30
Napoleon, $5 ..... Adv July 14—Sale July 29
New England Cons. Los Angeles co., 5c .. Adv July 16—Sale July 27
Orinoco, Reese River, 50c ..... Adv. July 2—Sale July 16*
Ontario & Webster, Montgomery ..... Annual Meeting June 20*
Ontario & Webster, Montgomery ..... Adv. June 25—Sale July 9*
Orient, Inyo ..... Adv May 28—Sale July 6*
Ophir of the Colorado, El Dorado C., $2 .. Adv. June 18—Sale July 2*
Ophir, El Dorado Canon, 15 cents ..... Ad. June 8—Salo June 20*
Oxford Beta, Silver Hill, 50 cents, ... Adv. June 18—Sale July 9*
Omega, Gold Hill, Virgima, $25 ..... Adv July 8—Sale July 23
Overman, $30 ..... Levied April 16—Gold Hill
Original Cœsus, Sierra, $1 ..... Sale June 20
Original Crœsus, Sierra, $3 ..... Sale June 20
Ophir of the Colorado, Arizona, $2. Advertised June 18—Sale July 2*
Olive City, Weaver ..... Sale June 27
Oxford Beta, Esmeralda, 50 cents ..... Adv. May 16—Sale June 29
Olympic, Big Creek, 50 cents ..... Adv. June 25—Sale July 12
Oregon, R. R. ..... Annual Meeting July 4
Owens River, Inyo, $3 ..... Adv July 9—Sale July 20
Osceola Hill 25c ..... Adv July 10—Sale July 23
Overman, $30 ..... Levied June 7 Gold Hill
Owens River Canal ..... Meeting June 20
Porter, Butte co., 50c ..... Adv July 16—Sale Aug. 3*
Phœnix, Reese River ..... Adv June 11—Sale July 14*
Peaslee & Sparks, R. R., 25c ..... Adv. July 2—Sale July 16*
Potomac, Reese River, $1 ..... Adv. June 25—Sale July 11*
Point Arena Petrolcum, Mendocine county .. An. Meeting June 25*
Progress, Reese River, $1 ..... Sale June 18
Paget, El Dorado county, 50 cents ..... Sale June 25
Progress, Reese River, $1 ..... Adv. June 4—Sale June 18
Peytona, Virginia, $2 ..... Adv. June 15—Sale June 30
Porter, Virginia ..... Annual Meeting June 25
Peninsular, San Antonio, 25c ..... Adv. June 15—Sale July 15
Pioneer Coso, Coso ..... Annual Meeting July 6*
Pizarro, Cortez, 25c ..... Adv July 9—Sale July 23
Provo Cons. Santa Rosa, 10c ..... Adv July 14—Sale July 24
Phœbus ..... Special meetlug June 20
Queen of Antilles Cons, Lander, 25c ..... Levied March 30*
Royal Eaglo & Cliff ..... Sale June 22*
Rhodc Island, Mono co., 25c ..... Adv July 16—Sale July 30*
Rose Matilda, Santa Catalina ..... Adv. June 4—Sale July 6*
Refugio, Chihuahua ..... Adv. May 21—Sale Juno 28*
Rose Linda M. & M. Co., Amador co., 50c ..... Adv June 1*
Revenue, Reese River, $1 ..... Adv June 6—Sale June 18
Rhode Island, Keys, 10 cents ..... Sale July 12
Reba, R. R., 25 cents ..... Levied March 31
Red Cap, Amador, 50 cents ..... Adv. June 15—Sale July 11
Relief, 10 cents ..... Levied May 19
Rochester, Cons ..... Annual meeting June 21
Reese River, R. R., 25 cents ..... Adv. May 21, Sale June 27
Ranchcria, La Paz ..... Adv May 24—Sale June 25
Rambler, Slate Range, 50 cents ..... Adv. June 25—Sale June 25
Rio Chico, Arizona, Mex., 1½ ..... Adv. June 16—Sale June 27
Real del Monte Cons., Esmeralda ..... Adv. April 22—Sale July 1
Roasch, White Mountain, 40c & 50c ..... Adv. June 1—Sale July 1
Reese River, Orizaba, R. R. ..... Special Meeting June 27
Rosario & Carman, Mex., $1 ..... Adv July 4—Sale July 14
R. R Antelope, R. R., $1 ..... Sale July 6
Rhodes Diggings, R D., $3 ..... Adv July 16—Sale July 29
Southern Belle, R. R., 25c ..... Adv July 9—Sale July 23*
Silver Creek, Mono co., 50c ..... Adv July 23—Sale Aug 3*
St. Clair Cons., Smoky Valley, $1 ..... Adv July 9—Sale July 23*
San Francisco, Rock Spring, 5c ..... Adv. July 2—Sale July 16*
Sierra Madre, Rock Spring, 5c ..... Adv. July 2—Sale July 16*
Stars & Stripes, Rock Creek, Cal. co., 10 .. Adv. June 21—Sale July 9*
Star of Nevada, Reese River, 50c ..... Adv. July 2—Sale July 10*
St. Lawrence, Inyo ..... Adv. May 28—Sale July 6*
Suerte, Carmen Island, 25 cents ..... Adv. June 25—Sale July 11*
Siskiyou Lion, Siskyou county, 50 cents .. Adv. June 25—Sale July 12*
San Lorenzo, Santa Cruz, 50 cents ..... Adv. June 25—Sale July 11*
Segregated Crown Point, Gold Hill, $26 ..... Sale July 5*
Scorpion, Virginia district ..... Sale June 18*
Seely, R. R., ... Adv June 18—Salo July 18*
San Francisco, Gold Hill, $3 ..... Sale June 28
San Marcial, Sonora, Mexico, $1.50 ..... Sale June 22
Slate Mountain, Slate Mountain, 25c ..... Sale June 28
Stearns C R. 25c ..... Sale June 25
South Crown Point, $2 50 ..... Sale June 18
Silver Chcle, R R. $1 ..... Sale June 25
Salvatierra, La Paz, ... Sale July 2
Santa Cruz, San Antonio, $2 50, ... Sale June 28
St George, Storey Co, $1 ..... Sale June 20
Santa Rosa, Inyo, 40c, ... Sale June 20
South Eclipse, Russ, 10c ..... Sale June 20
Santa Rita, Inyo 50c ..... Sale June 20
Sonoma Co, R. R. ..... Levied March 31
Silver Age, Amador, 60c, ... Sale June 24
Siempre Vivia, Zarigoza Mex, $1 ..... Sale June 29
Sirene, West Pt, 50c ..... Sale June 20
Sisters, Augusta, 15 cents ..... Adv. June 25—Sale July 25*
San Francisco, Gold Hill and Virginia, $3 .. Adv. June 8—Sale June 28
Stearns, Reese River, 25 cents ..... Adv. June 18—Sale June 30
South Eclipse, Russ, 10 cents ..... Adv. June 5—Sale June 20
Santa Rosa, Inyo, 40 cents ..... Adv. June 5—Sale June 20
Scorplon, Virginia, 50 cents ..... Adv. June 11—Sale June 29
Santa Rita, Inyo, 50 cents ..... Adv. June 5—Sale June 20
Starlight, Humboldt county ..... Sale June 22
Sierra ..... Sale June 20
Santa Rosa de Ures, Ures, $1 ..... Adv. June 17—Sale July 1
Sunset, Amador, 50 cents ..... Adv. June 15—Sale July 11
San Simon, San Luis Obispo county, 50c .. Adv. June 15—Sale June 30
Sierra Nevada, Virginia, $10 ..... Adv. June 18—Sale June 30
Sonoma, Alpine, 15 cents ..... Adv. June 11—Sale June 25
Sonoma County, Cloverdale, 20 cents ..... Adv. June 21—Sale July 9
San Nicolas, Durango, Mex., $6 ..... Adv. June 20—Sale July 2
Sierra Cons. 25 cents ..... Adv June 24—Sale July 11
St. Louis, R. R., $1 ..... Adv. June 24—Sale July 8
Salamander, Mill Valley, 10 cents ..... Adv. May 24—Sale July 11
Seneca, Cons., Virginia, $5 ..... Adv. June 27—Sale July 11
Siskiyou, Humbug, $1 ..... Adv. June 15—Sale July 16
Seely, Big Creek, 38 cents ..... Adv. June 25—Sale July 13
Solambo, Tuolumne county, $1 & 50c ..... Adv. May 28—Sale June 29

Sarah Frances, Webster, 10c.....Adv. July 6—Sale July 20
Sierra Nevada, Virginia, $10.....Adv. June 18—Sale June 30
San Marcial, Sonora, Mex., $1¾.....Adv. June 2—Sale June 22
Sonoma Ledge, R. R., $1.....Adv. July 2—Sale July 16
Sable t, R. R., $1.....Adv. July 2—Sale July 16
Southern Light, R. R.,.....Annual Meeting July 4
Santa Teresa de Jesus, Sonora Mex., $2. Adv. June 6—Sale June 18
St. George, Virginia, $1.....Adv June 5—Sale June 20
Shoshone, Lander co., $1.....Adv July 6—Sale July 20
Stanislaus, Calaveras county 50c.....Adv July 4—Sale July 19
Silver Cloud, R. R.,.....Annual Meeting July 5
Soledad, Soledad, 25c.....Adv June 8—Sale June 23
Sierra Nevada, Sierra co, 25c.....Adv June 18
Salamander, Mill Valley, 20c.....Adv July 11—Sale July 29
San Carlos, Inyo, $4.....Adv July 9—Sale July 23
Surprise, Mariposa, 20c.....Adv July 11—Sale July 27
Spring, Mono co., 50c.....Adv July 10—Sale July 22
Slate Mountain, 25c.....Adv June 10—Sale June 25
Sutro, $1.....Virginia, Adv June 10—Sale July 11
Silver City.....Adv June 11—Sale July 10
San Louis Rey, San Antonio, 25c.....Adv May 5—Sale June 21
Sirchie, Calaveras co., 50c.....Adv June 15—Sale June 29
Sears.....Annual Meeting July 6
Santa Cruz, San Antonio, $2½.....Adv June 14—Sale June 24
San Simeon, San Luis Obispo, co.. .....Adv June 16—Sale June 30
Sappho, Arizona, 25c.....Adv June 17—Sale June 30
Santa Rosa, Virginia, $1.....Adv July 18—Sale Aug 3
Sawtello.....Annual Meeting June 20

Tuolumne, San Francisco District,.....Adv. June 11—Sale June 29*
Tennessee, Echo, 50 cents.....Sale June 18
Techattucup, Colorado, 40 c .....Sale June 18
Talmlah, Sierra $15.....Adv June 17—Sale July 30
Tolcander, Hamilton, 25c.....Sale June 21
Tulare, Inyo, 40 cents.....Adv. June 25—Sale July 9
Tesoro, La Paz.....Adv. May 24—Sale June 25
Teutonia, San Miguel, 10 cents, 10 cents...Adv. May 5—Sale June 25
Teutonia, Gold Hill, $1.....Adv. June 19—Sale July 11
Tennessee, Echo, 10c. 10c. 10c, 40c & 50c. Adv. May 28—Sale June 18
Texas, R. R.,.....Sale June 21
Twin, Silver Mountain, $1 .....Adv July 9—Sale July 23
Tesora & James River Cons, R. R.,.....Adv May 10—Sale June 24

Union Tunnelling, Santa Clara, R.....Adv June 11—Sale July 16*
United States, Lander county, 3c and 5c...Adv. May 21—Sale June 29*
Union No. 2, Reese River, $1.....Annual Meeting July 4
United States, R. R.....Meeting June 28
United States, Virginia, $1.... .....Adv. July 3—Sale July 16

Vivian, Lyon co , 50c.....Annual Meeting July 6*
Victoria, Reese River, 50c.....Adv. July 2—Sale July 16*
Victor Hugo, Gold Hill, $2.....Sale June 30
Vulcan, Rocland, 3½c.....Adv. June 9—Sale July 29
Vesta, Santa Fe.....Adv. June 3—Sale July 2
Venus, Buena Vista.....Adv June 8—Sale June 29
Vivian, Blue Sulphur Springs, $1.....Adv June 6—Sale June 18
Ventana, San Benitas, $5.....Adv July 8—Sale July 27

White Mountain Cons., Mono co., 15c.....Adv July 9—Sale July 20*
Winona, Arizona Ter., 25c.....Adv July 9—Sale July 27*
Wyandotte, Amador, N. T.....Annual Meeting June28*
Wide West, Calaveras county.....Adv. May 28—Sale June 21*
Wilson, Echo, $1.....Adv. May 21—Sale July 2*
Wall Street, Reese River, 50 cents..... Sale June 18*
West End, Slate Mountain, 50 cents.....Sale June 20
White Cloud, Virginia, $1.....Sale June 22
Willow Cons., Summit, ...Annual Meeting July 4
Whitlatch, R R, $5.....Sale June 24
Wellington, Santa Catalina, 25c .....Sale June 21
Washington, Reese River, 50 cents.....Adv. June 18—Sale July 2
Washington, V. & G. H. Cons., Chelon, 25c...Adv. June 8—Sale June 19
Willow Cons.....Meeting June 19
Washington, R. R., 50 cents.....Adv. June 25—Sale July 9
Wide West, Esmeralda, $5.....Adv. June 29—Sale July 9
Wm. Penn, Devil's Gate, $5.....Adv. May 28—Sale July 28
Washoe, No. 1, Gold Hill, $2½.....Adv July 14—Sale July 26
Williams, Silver Mountain, 25c. 20c & 25c....Adv Aug 1—Sale Sept 1
Weaver, Weaver, 2½.....Adv July 18—Sale July 28
Wisconsin, Virginia.....Meeting June 27

Yellow Monster, Inyo, 25 cents.....Adv. June 5—Sale June 20
Yankee Blade, Reese River, $2.....Sale June 20
Yosemite, Oro Fino, $3 .....Levied Feb 90
Yellow Monster, Inyo, 20c .....Sale June 20
Yellow Jacket, No. 2, Gold Hill, 20c.....Adv June 5—Sale July 6
Yosemite, R. R.,.....Annual Meeting July 5

Znack, R. R., 50c.....Adv June 8—Sale July 9
Zenith, Mountain Ranch, 50 cents.....Sale June 18

The mining community begin to appreciate our reasonable rates of advertising, and are turning their patronage to the journal most properly entitled to receive it. The advantage to shareholders of having all mining notices concentrated in one mining journal, is obvious to all, and our terms have been established with a view to effect such a consolidation; and most companies having an object for publishing in any other particular paper, can consequently afford to have their notices appear in our journal also.—Eds. Press.

Electric Light.—The Paris correspondent of the London *Times* affirms that a Trappist has solved the question of the electric light. He has made it regular, and reduced its production below the cost of gas. Abbaye Grace has already been lighted with it, and factories for its production are being erected at Lyons and Paris. The mode by which the inventor prepares to produce heat will be published to the world, on December 16th, and the secret of the light on the day of the opening of the new exhibition. Every householder in England will rejoice to hear that there is a prospect of so severe a blow to the avaricious monopolists, who, under the name of gas companies, tax and poison us all. They well deserve all that science can do to supersede them. For years it has been in their power, by a small reduction on exhorbitant dividends, to purify gas, and they have declined to make the attempt; so that while gas in Scotland is a pure white light, as innocuous as any other, gas in London is a yellow haze, emitting a smoke which turns silver black in three days, and spoils pictures in one.

The Virginia City *Union* ascribes the hard times prevailing there to a want of more Courts. (?)

The street posts and lamps are being put up, preparatory to lighting Virginia City with gas.

The Esmeralda County Sanitary Association have sent a silver brick, weighing 1542 ounces, valued at $4517, to the United States Sanitary Commission.

A productive mine can be worked upon to a great depth. In Europe some of the workmen have gone down as low as three thousand feet.

San Francisco Stock and Exchange Board.—Prices Bid and Asked.

				Saturday.		Monday.		Tuesday.		Wednesday.		Thursday.		Friday.	
WASHOE STOCKS.	FEET.	SHARES.	VAL.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.	BID.	ASKED.
Ophir	1,400	16,800	300	800	825	800	810	760	800	760	780	760	775	760	800
Gould & Curry	1,200	4,800	500	3,015	3,030	3,025	3,035	3,000	3,015	2,925	3,000	3,000	3,040	3,030	3,050
Savage	800	800	2,000	1,875	1,890	1,890	1,890	1,890	1,875	1,800	1,825	1,600	1,800	1,725	1,750
Chollar	1,400	5,600	800	574	575	600	650	550	575	—	—	450	500	625	700
Potosi	1,400	2,800	500	750	900	900	940	900	950	—	—	880	900	900	1,000
Hale & Norcross	400	800	500	450	500	500	575	475	500	450	600	400	600	—	—
Sierra Nevada	3,000	3,000	500	—	50	35	39	—	—	25	42½	—	40	30	40
Bancy	2,000	800	60	62½	65	60	65	62½	70	50	70	50	67½	60	67½
Burning Moscow	4,100	4,100	500	41½	42½	42	42½	39	42½	38	40	33	35	33	35
North Potosi	2,000	2,000	250	72½	77½	75	78	69	70	63	68	67	69	66	68
Charles Cuny	1,800	1,800	30	—	—	—	—	—	—	—	—	—	—	—	—
Iowa	1,200	1,200	1,000	—	—	—	—	—	—	—	—	—	—	—	—
El Dorado	1,600	1,600	500	15	—	—	—	—	—	—	—	—	—	10	25
Norton	1,600	1,600	50	—	—	—	—	—	—	—	—	—	—	—	—
Burnside	2,800	2,800	500	—	—	—	—	5	—	5	—	—	5	2	3
Adriatic	2,700	2,700	100	—	—	8½	9	—	—	—	—	6	8	—	—
Pride of the West	1,400	1,400	100	5	10	6	8	5	5	2½	6	—	5	2	7
Imperial	184	4,000	500	125	150	141	150	147½	150	—	—	135	150	125	150
Crown Point	600	1,200	100	—	—	—	—	—	—	—	—	—	—	—	—
Manhattan	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Seneca	—	—	—	—	25	14	24	—	—	10	20	10	18	13	18
Mt. Davidson tun'l.	1,000	1,000	200	—	—	—	—	—	—	—	—	—	—	—	8
Caledonia Tunnel	—	—	—	—	10	—	10	—	—	—	—	4	7	—	—
Bajazet & G. Era	4,000	4,000	300	—	30	—	—	—	—	—	—	—	30	—	—
Cedar Hill tunnel	—	1,000	100	—	—	—	—	—	—	—	—	—	—	—	—
Gold Hill Qu'tz Mill	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ESMERALDA.															
Wide West	1,400	1,400	2,600	16	17	10	18	12	17	—	18	—	15	12	14
Antelope	1,200	1,200	500	—	140	—	—	—	150	—	—	150	130	—	140
Esmeralda	1,600	1,600	1,000	5	—	4	—	4	—	—	—	—	—	—	—
Real del Monte	4,400	4,400	400	—	39	25	30	30	32½	31	32	26	30	27	30
Utah	1,600	1,600	250	—	—	25	—	27½	—	—	—	—	—	—	—
Silver Hill	3,000	3,000	500	—	—	—	—	—	—	—	—	—	—	—	—
Nevada	600	1,200	250	—	—	—	—	—	—	—	—	—	—	—	—
Falls of Clyde	5,000	6,000	100	—	—	—	1	—	—	—	—	—	—	—	—
Bamboo	600	600	500	—	—	—	—	—	—	—	—	—	—	—	—
Crockett	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Federal Hope	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Jenny Lind	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
COSO.															
Josephine	9,600	4,800	2,500	—	4	—	—	1	—	1	—	—	—	1¾	4
Willow Springs	2,700	2,700	100	—	—	—	—	—	—	—	—	—	—	—	—
Coso	2,600	3,600	600	—	—	—	—	—	4	—	—	—	—	—	—
COPPER.															
Napoleon	2,700	2,700	600	—	—	—	79	—	80	—	80	—	80	—	80
Josephine	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CALIFORNIA.															
Laurel Hill	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rhodes Diggings	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fellowes	2,500	2,500	100	—	—	—	—	—	—	—	—	—	—	—	—
Maxwell	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rock River	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Eureka	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HUMBOLDT STOCKS.															
De Soto	1,980	1,980	100	—	—	—	—	—	—	—	—	—	—	—	—
Great Basin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Record of New Incorporations.

The following is a record of the names of the companies, location of the claims, and the names of the Trustees mentioned in the articles of incorporation, filed in the County Clerk's office, in this city, since our last report:—

Hero G. & S. M. Co., Silver Mountain; Samuel S. Phillips, C. L. W. Kneller, William Vale.

Gold Bar G. & S. M. Co., Gold Hill, N. T.; M. H. Howell, Joseph Clark, Daniel McFell, A. H. Hagadorn, R. M. Heath.

Uncle Sam M. Co., Gold Hill; Thomas Bell, W. Thompson, Jr., A. Hayward, George Heart, W. W. Stow.

NEVADA TERRITORY.

We gather from the Territorial papers the following names of mining companies which have recently filed papers of Incorporation in Nevada Territory:—

Banner G. & S. M. Co., Reese River district; Wm. D. C. Gibson, W. P. Harrington, H. A. Mills, H. I. Dawicy, Jesse Oren.

Mountain Cedar G. & S. M. Co., Reese River district; G. W. Bowman, H. W. Mitchell, M. H. Hall, M. Rolling.

Alpine M. Co., Reese River district; N. Bowkofsky, H. G. Worthington, D. R. Ashley, John H. Collier, Wm. Myers.

Bombay S. M. Co., Reese River district; Louis R. Sowers, John W. Coleman, Wm. Bracket.

Monte Christo G. & S. M. Co., Palmyra district; F. Luther, B. Lanoil, O. V. Chauvel, A. Friedman, F. Elvin.

Tarsish M. Co., Amador county, Cal.; J. Davis, S. Screeber, L. L. Lewis, Charles Banelman.

Valparaiso G. & S. M. Co., Gold Hill district.

Palestine G. & S. M. Co.; A. C. Scranton, G. W. Noble, R. Donill.

Niagara G. & S. M. Co.; S. Rosenthal, C. P. Davidson, G. Kipp.

Lady Davis G. & S. M. Co.; P. Mullen, Ambrose English, John Thackeray.

Eureka G. & S. M. Co., Reese River district; S. M. Overlander, C. V. Smith, Wm. B. Gray, J. H. Page, John E. Williams.

Double Eagle Consolidated G. & S. M. Co., Amador district; H. P. Stedman, Thomas Feely, J. F. Withamp, J. Patterson, H. B. Ross.

Gold in New York.

Friday, June 10.....198.

Legal Tender Notes.

San Francisco, Friday, June 17.....52 per cent.

Mining and Scientific Press.—Having missed a few numbers of this excellent paper, we feared it had ceased to exchange; but as it has again resumed its regularity, we are a little easier on the subject. The Mining Press is an almost indispensable companion to the miner and mill man, and when in our peregrinations we find it in the cabin of the one or the office of the other, we look for, and invariably find, a superior intelligence and more satisfactory working than where it is unknown, and its precepts ignored. We would dislike to be deprived of it, either as editors, miners, millers, or mechanics.—*Reese River Reveille.*

The Press is exclusively a mining journal, and is one of the ablest sheets of its kind published in the United States.—*Calaveras Chronicle.*

Corporations.—The following "Act concerning corporations" was passed by the fifteenth Legislature:

Section 1. All associations or companies heretofore organized and acting in the form and manner of corporations, and that have filed certificates for the purpose of being incorporated, but whose certificates are in some manner defective, or have been improperly acknowledged, or have been acknowledged before a person not authorized by law to take such acknowledgements, are hereby declared to be and to have been corporations from the date of the filing of such certificates, in the same manner and to the same effect and intent as if such certificate were without fault and properly acknowledged before the proper officer, and all such certificates are hereby validated and declared to be legal, and shall have the same force and effect as if such certificates were free from all fault or defect, and were properly acknowledged before an officer having authority to take such acknowledgements.

City Stock Reports.

Sales of Mining Shares

For the week previous to Saturday, June 18, 1864.

By the San Francisco Stock and Exchange Board, Pacific Board of Brokers, Stock Exchange and the City Stock Exchange Board of Brokers

NAMES OF COMPANIES.	SHS. SOLD.	LOW-EST.	HIGH-EST.	CLOS-ING.	AM'T SOLD.
Antelope	5	130	130	130	650
Adriatic	20	9	9	9	180
Baltic,	12	60	50	50	600
Blue Ledge,	925	4	9½	4½	614890
Branch Mint	5	30	30	30	150
Burning Moscow,	203	32	44	32	7578
Bullion,	99	70	75	70	6715
Buckeye,	70	7	7½	7	50750
Chollar,	650	475	625	600	54470
Caledonia Tunnel,	35	6	6	6	210
Crockett Consolidated,	24	4	4	4	98
Bancy,	80	65	68	65	1245
Empire Mill, & M Co.,	15	800	800	800	13350
El Dorado	5	12	12	12	60
Esmeralda	20	10	10	10	200
Empress	35	8	8	8	100
Gould & Curry	234	2900	3150	3075	279427
Good Return	21	25c	25c	25c	5
Golden Age & Empire	150	33½	37½	34	516250
Green,	5	3	3	3	15
Harmon,	75	17½	17½	17½	131250
Imperial,	85	122½	155	155	12825
Josephine, Coso,	10	1	1	1	10
Justice,	50	55	65½	55	190050
Lady Bryan,	2800	28	38½	33	9033750
Mt. Davidson	609	3	8	3½	1989
Mina Preta	16	20	20	20	320
Melones,	40	6½	6½	6½	280
North American,	785	92	118	100	89120
North Potosi,	410	65	80	70	22835
Nevada, J. G.,	55	36	50	60	2365
Norton	10	2	2	2	20
Ophir,	361	760	810	785	155435
Potosi	26	900	925	900	21960
Pride of the West,	40	6	6	5	220
Real del Monte,	96	30	38	30	307625
Rough & Ready	5	45	45	45	225
Seneca,	5	10	19	19	65
Savage	4	1725	1900	1725	7300
San Francisco	70	4	5¼	5½	350
Sheba	36	90	100	100	3622
Uncle Sam	41	500	660	625	22985
Wide West,	20	14	17	14	310
Washington	4½	4	4	4	18
Sales for the week	....	.....	.....	.....	$24,863½

Send them East.—Do you buy papers to send to your friends at the East? If so, please reflect that no other paper published in the State can be more acceptable to the majority of your friends than the Mining and Scientific Press. It contains a very large amount of valuable reading, nearly all relating to California and her leading interests—just the kind of general information you would give your friends if you should write. It can be had at the office of publication, neatly done up in wrappers, for mailing, at one bit per copy.

Caution.—Parties incorporating mining companies, who desire the choice of advertising in either a daily or weekly newspaper, should be particular to cross out the word "daily" when using the form of blank by-laws sold by the stationers of this city.

Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

DEWEY & CO., Publishers.

OFFICE in the Government House building, Northwest corner of Washington and Sansome streets, rooms No. 56 and 57, up stairs.

Terms of Subscription:

One copy, per annum, in advance,.....$5 00
One copy, six months, in advance,..... 3 00

☞ For sale by Carriers and Newsdealers.☜

San Francisco:

Saturday Morning, June 18, 1864.

Another Enlargement.

With the close of the present month terminates Volume VIII. of the MINING AND SCIENTIFIC PRESS. With the commencement of the next Volume, the publishers have determined to permanently enlarge the pages of the sheet from three to four columns, a size but a trifle smaller than that of the London *Mining Journal*, the largest *mining* paper in the world. Our success during the present volume permits us to assure our readers of the permanent improvement and progress in usefulness of our journal.

June 1st, 1864. DEWEY & CO., PUBLISHERS.

Favorable to Inventors.—Persons holding new inventions o machinery and important improvements, can have the same illustrated and explained in the MINING AND SCIENTIFIC PRESS, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

OUR MINING ADVS.—We feel highly flattered with the appreciation, evinced by the mining fraternity, of our paper as a medium for their notices, and are determined to merit a still larger share of their patronage. Our circulation is not only rapidly increasing throughout this entire coast, but also in New York and other eastern cities. The enlargement of our pages on the 1st of July will give us more elbow room, and all mining notices will then be displayed alphahetically after their first insertion. Our columns will still he a trifle wider than those of any daily paper in the city.

NEW AMALGAMATOR.—Mr. M. Disney has just put in operation an amalgamator, constructed on quite a novel principle. It consists of a horizontal cylinder, with moveable dies on the lower half of its circumference, and shoes to correspond, attached by arms to a horizontal shaft revolving withiu the cylinder. This mode of constructing and operating an amalgamator must keep the pulp thoroughly mixed, while the expenditure of power is most economically applied. The machine is simple, light and inexpensive—all most important considerations. It may he seen in the rear of the Vulcan Machine Shop, on Sutter street, hetween Sansome and Montgomery. The inventors are quite sanguine of its success. Application for a patent has been made through the Agency connected with this office.

THE SACRAMENTO RIVER AND ITS PHYSICS.—We have received, in pamphlet form, an elaborate paper, prepared some time since, hy Dr. Thomas M. Logan, of Sacramento, and published in the *Pacific Medical Journal*, of this city. The paper was originally read before the California Academy of Natural Sciences, constitutes a most invaluable contribution to the cause of science, and is, we believe, the only important effort which has ever been made to place before the world the physical history and *status* of this great commercial highway of California. It was accompanied hy a chart, prepared at the instance of the Surveyor-General, who was desirous of preserving, in concise form, among the State archives, as much as possihle in relation to the periodical rise and fall of the river for several years previous. This, Dr. Logan has most happily accomplished. The facts collected and presented in this paper, apart from their scientific value, are most important in relation to the hygiene and thermology of this important river.

FOR ARIZONA.—Two steam engines, of 24-horse power each, are now on board the schooner Sovereign, bound for La Paz, and intended for the Picacho Mining Company, incorporated in New York.—This seems to he the begining of large expenditures of eastern capital in that rich Territory.

MINING SHARE MARKET.

The Mining Share Market continues active, and without any material changes from the closing prices of last week. Confidence in leading stocks is becoming gradually restored. The business of the past week reaches a very respectable figure, although somewhat under the amount of the previous week. The sales foot up at $824,869.

Ophir has maintained itself with much steadiness at about $800, hut with less business than last week. Shipments of hullion from this mine continue to come in regularly. The receipts for the present month will exceed $100,000.

Gould & Curry has been more quiet; holders are firm at $3.000 to $3.100. Sales have been made during the week at $3,150.

Savage reached $1,900 on Saturday last, dropped to $1,800 on Wednesday and closed at $1,725 before yesterday's board. The regular dividend of $50 for the present month is confidently expected.

North Potosi has been more active, opening firm at $80; it gradually declined to $66, but closed at $70 before last evening's board.

Chollar shares have been quite freely handled, hut at somewhat fluctuating rates. Opening at $600 on Monday, they advanced to $650 on Tuesday, with large sales, hut subsequently dropped to $500. It is said that about 100 tons of ore are being taken from this mine daily, which is yielding some $40 per ton.

Burning Moscow has still further receded, with a moderate business; it closed yesterday at $35.

Blue Ledge has met with a large business, at a gradual decline from $9@4½.

Lady Bryan has again become the chief feature of the market; 2,755 shares have changed hands at greatly fluctuating rates, ranging from $28 to $40. Opening at $30 on Saturday it reached $40 on Tuesday, closing at $33 yesterday. It is said that the newly found deposit of ore in this mine is of great value and large extent.

Mount Davidson, after reaching $8 on Saturday, gradually receded to $3½ on Thursday.

North American has been less active, hut is maintained with much steadiness at from $100 to $104.

Real del Monte has declined to $30, with a slight business.

Sheba has advanced to $110, 90 days.

Imperial shares have advauced from $125 to $155.

For further quotations we refer to our tabulated statement of the business of the week.

THE WASHOE STOCK MARKET, which was nearly at a stand still at the date of our last report, is still more so at the present writing. The total transactions noted for the week ending June 14th are as follows:

Branch Mint, 20 shares at $27½, s 3 days; 40 at 37½, buyer 30 days; 20 at $45, b 30; 10 at $55; 35 at $55, b. 30.

Bullion, 10 shares at $75.

The Virginia Stock Market suspended operations on Saturday last, on account of lack of business, and dissolved its organization. Most of its members joined the Washoe Stock and Exchange Board, upon an admission fee of $20, which is now the only Stock Board organization in Nevada Territory.

A NEW MAP of the vicinity of Richmond has been placed upon our table by A. Gensoul, publisher, 511 Montgomery street. The important points, to which reference is so frequently made in the telegraphic dispatches now being received from the princial seat of war, are very distinctly laid down on this map.

PLUMAS COUNTY.—Blood & Co.'s mill cleaned up after five days' run over $5,000; and the Crescent Company, with four days' crushing cleared $4,000.—The Buckeye Company is also making good returns. A new mill, known as the Golden Gate, will he running, at Round Valley, in a few weeks.

RICH ORES.—Mr. B. M. Barker, who left on the last steamer for New York, exhibited to us, before his departure, some beautiful specimens of unmistakably rich rock from the Aristides and other claims in Owens River country.

THE WASHOE, opposition steamer to Sacramento, resumes her regular trips on Monday next. Fare $1.

Election of Officers.

The following companies at their meetings during the past week, have elected officers as follows:

AMAGOZA G. & S. M. Co.—Meeting June 14th.—Trustees, R. S. Eells, A. J. Plate, G. T. Benning, E. W. Park, H. W. Walker, Chas. Steinway, J. J. Reichenhack. President, R. S. Eells; Treasurer, A. J. Plate; Secretary, B. Hall.

BLACK DIAMOND COAL M. Co.—Meeting June 14. Trustees, C. A. Eastman, B. H. Ramsdell, T. Hardig. President, C. A. Eastman; Secretary, Frank Bernard.

SANTA CRUZ G. & S. M. Co.—Meeting, June 15. Trustees, Dr. J. Regenshurger, H. W. Schmidt, H. Fisher, J. Landsberger, Henry Voorman. President. Dr. J. Regenshurger; Treasurer, J. Landsberger; Secretary, A. Marcus.

SUMMIT PASS G. & S. M. Co.—Meeting, June 14. Trustees, Capt. Ludlum, P. Trusdell, John Brazer, B. W. Madge, J. F. Larrabee. President, Capt. Ludlum; Treasurer, John Brazer; Secretary, T. B. Ludlum.

TABLE MOUNTAIN COPPER Co.—Meeting, June 13. Trustees, Jacob M. Pike, N. B. Edmiston, M. G. Elmore, Milo Calkin, J. G. Jackson.

MINING IN COLORADO.—The mines of Pike's Peak appear to he in a very flourishing condition at the present time, far exceeding those of any portion of this State and adjoining Territory. The papers from there speak of the great prosperity of the section and the immense amount of money investing in mining claims. These mines draw their supplies direct from the eastern cities, and their transaction and estimates are in greenhacks. The Black Hawk *Mining Journal* gives some interesting details of work, which shows that there can be no douht with regard to the correctness of the above. Money without limit can he obtained there for development of the mines. All these advantages are due directly to the fact that they have adopted and continued a currency there, founded upon the same basis with that portion of the country from which they draw their supplies. The wisdom of the course is fully apparent.

BROWN'S VALLEY.—Our regular correspondent states that mining matters are still going on prosperously in Brown's Valley. Some changes have been made in the working arrangements of the Pennsylvania Co. One of the batteries is at work on the company's rock, while the other is at work upon Yuha rock. The Daniel Webster, a supposed extension of the Jefferson, has recently put a small engine to work for hoisting and pumping. Their shaft is down over sixty feet, on a ledge of great thickness. Ten tons of the rock have recently been crushed at the Dannebroge mill, but the yield was small. The company hope to find hetter rock at a greater depth. The rich rock recently discovered in the Dannebroge mine is found to be quite extensive, and is giving new life and activity to the mine.

RICH COPPER AND SILVER ORE.—The Secretary of the Nacosari G., S. & C. M. Company has placed upon our table a heautiful specimen of copper ore of the peacock variety, from a shipment of six tons, which has recently been received in this city from the mine, which is located about 200 miles east from Guaymas, Mexico. This ore has been crushed at the Fountain Head Reduction Works, 537 Market street, and the mass sampled and assayed, hy Kellogg & Hewston, with the following result: 47.83 per cent. of copper and $63.54 to the ton in silver. The office of this company is on the southwest corner of Front and Jackson streets, up stairs. Ira P. Rankin, President.

MAGGIE LEAD.—Several very rich specimens of silver sulphurets have been laid upon our table from the Maggie lead, Yankee Blade district, Reese River.

DIPLOMATIC STRATEGY.

Napoleon has evidently drawn an "elephant" in his Mexican prize; but, unlike most people under similar circumstances, he has succeeded in devising a way to dispose of it. That wily statesman sees in the waning fortunes of the Southern Confederacy the inevitable fate of his new-found possessions. His pride, however, will not admit of his allowing them to be wrested from his hands. In so doing he would lose his prestige with the French people. With a show of magnificent liberality, he has sought out a "go-between" in the person of an Austrian prince, upon whom he has placed the crown of Mexico. According to the terms of the arrangement, as soon as Maximillian is once established on the throne of the Montezumas, the French troops are to be graciously withdrawn, and the newly-installed Emperor to be left to sustain his Empire as best he may with Austrian and Austria-Mexican bayonets. Napoleon will thus have his "elephant" off his hands, and when the day of trouble comes, the pelting storm will fall upon the unhappy Austrian's head, while the imperturable Frenchman will look calmly upon the roaring elements as they sweep his imperial brother to utter wreck and destruction. Napoleon will have reaped all the honors of conquest; he will have made another stride in the footsteps of his illustrious uncle, who created and destroyed kingdoms and established and dethroned kings at his will. It will be Maximillan and not Napoleon who will lose, ingloriously, the empire so gloriously won by the latter. This is but another instance of Napoleonic strategy.

While these things are in early progress there is another wily diplomatist who is not altogether an unconcerned observer of what is transpiring in this direction. It is but recently that we have heard of the failing health of Minister Corwin, and that a removal from the genial clime of Mexico to a rigorous northern latitude would be desirable by that functionary. Permission has been graciously granted by the sagacious Seward; and perhaps it will not be considered slightly significant if Mr. Corwin should find his declining health such as to render it necessary that he should leave Mexico just about the time the new Emperor will be expecting diplomatic calls from the various national representatives at his new capital. The absence of the American Minister, on account of ill-health, cannot, of course, in diplomatic courtesy, be taken amiss. The longer Mr. Corwin remains an invalid, the longer may the Government at Washington defer any official notice of a change in the Government at Mexico.

In the meantime suppose Richmond and Atlanta and some other important points in the Confederacy should change masters; who would, who *could*, prevent thousands of soldiers now in arms, from either section of the Union, whose occupation would then be gone, from moving quietly down to the Mexican frontier, and there arranging themselves once more in battle array to sustain a great American principle long cherished by all, both North and South, and embodied in the well-known "Monroe Doctrine." Juarez is already at Monterey with quite a formidable army, and has removed to that locality the still living, constitutional government of Mexico. What more glorious opportunity for the now contending factions of our people to forget their differences and unite once more under the glorious stars and stripes, and march again to victory and to the relief of an oppressed sister republic, upon whose neck a despotic foreign power seeks to place the yoke of subjection. How better could we close our family quarrel and cement the bond of Union? Napoleon may yet find a diplomatist who cannot be foiled. Corwin's leave of absence may suffice to postpone definite action upon this vexatious question until Seward can place himself in a position to defy all Europe, and fully prove himself the peerless diplomatist which his friends claim that he is.

The Plattner [Chlorine] Process to be Introduced Into the Colorado Mines.

The Black Hawk (Colorado) *Mining Journal* says that Messrs. Keith, Moller & Co. have decided to throw aside the Freiberg pans and substitute therefor the Plattner (Chlorine) Process for working the sulphuret ores, which abound to the exclusion of almost everything else in the mine belonging to that company, and indeed in most of the mines of Pike's Peak. This company, it will be recollected, is the one which has so successfully introduced a new process, known as the "Keith's Process," by means of driving, with a blast of air and flame, the finely divided particles of ore through a long furnace, the particles of ore becoming desulphurized in their passage.

The chlorine process has been successfully employed in the Reichenstein mines, in Europe, for the last fifteen years, where it is said the ores do not exceed an average yield of $8.60 per ton. Mr. Maynard, a professional assayer of New York, has recently returned from a tour of observation in the European mines, and reports that this process is coming into general use in the mines of Saxony, Selesia and Bohemia. He further intimates that it is somewhat singular that the process has not been "already introduced in the quartz mining sections of America."

To this it may be replied that there is but a very small portion of the ores of California to which the principle is at all applicable. The sulphurets alone can be worked by it. It is applicable only where the gold is exceedingly fine, as it generally is in all sulphurets. The gold, as it usually occurs in quartz, is too coarse to be taken up by chlorine gas, and would, of course, be left behind in the mass. Mr. Deetken, whose works are located on the San Bruno road, some three miles west of Montgomery street, in this city, is, we believe, the only man who has yet introduced the process into this State. He first employed it in Nevada county, removing from thence to this city some three years ago.

Chlorine, the chief agent employed in this process, is a peculiar pungent gas, the same which is so generally used in bleaching operations, and is manufactured from salt, sulphuric acid and oxide of manganese, and can be used economically for separating gold from its ores only where the above materials can be obtained in great abundance and at cheap rates. The process is applicable to gold only. It is said that the materials for the manufacture of the gas are abundant in the neighborhood of Pike's Peak. The sulphurets submitted to this process must first be finely pulverized, then desulphurized, and afterwards submitted to the action of the chlorine, in close tanks, through the bottom of which the chlorine is introduced by means of pipes leading from the generator. The gold contained in the mass (which must be very fine) is taken up by the chlorine after being submitted to its action for a few hours. The covers of the vats are then removed, water let in upon the top of the mass, and the chlorine and gold leached out, precisely as lye is leached from ashes. From the solution thus obtained the gold is readily precipitated by a simple chemical process.

This process is a very interesting and thorough one, but can never be made generally applicable for reasons given above. There is little danger that it will work any important revolution in the quartz milling business, as inferred by the Colorado *Mining Journal*.

TABLE MOUNTAIN COPPER MINING CO.—This company, located in Calaveras county, during the past week have made a sale of fifty tons of ore, at a good price. This rock assayed 21.65 per cent. The work on this claim is being vigorously prosecuted, and the prospects of the company are sufficiently good to justify them in putting steam power on their ground at once. They will in future make regular monthly shipments.

Reese River Mining Disputes.

EDITORS PRESS:—I noticed a communication in your paper of the 28th of May, by "X," in regard to the mines of the so called Bunker Hill District. As several communications have recently appeared in different papers in regard to that section of country, none of which have given the facts now existing between Santa Fe, Summit and Bunker Hill, I propose, with your permission, to give to the public through your columns a plain statement of the origin of the difficulty and the state of the mines now in dispute. I do this because I know the mines are equal, if not superior, to any yet discovered in the Reese River country, and six months from this time will prove it; but any misrepresentation or difficulties will materially injure them.

Santa Fe District was organized in March or April, 1863; Summit, 20th of June, and Bunker Hill is said to have been organized in August. The first that was known of the matter was the appearance of a copy of the laws of said District in the *Reveille*, claiming two-thirds of Santa Fe and the whole of Summit District. The miners of the last mentioned District were not notified of any intention to form a new District, and it could not be done except by the bonifide claim holders of said Districts; consequently the whole matter was illegal, and there is no such District as Bunker Hill. The boundaries of the other Districts remain as originally fixed, the miners therein refusing to recognize Bunker Hill.

The men that did this were a company of ten or a dozen, that started from Austin under the name of "the Smoky Valley Mining and Agricultural Society," (but more generally known as the "Jumpers") with the ostensible purpose of locating mines and ranches. They proceeded to Santa Fe District, formed Bunker Hill District within a few miles of the Recorder's office of Santa Fe and Summit, jumped the town site of Kingston and some of the mill sites on Big Smoky river, located thirteen quarter sections of land, and from 16,000 to 20,000 feet of mining ground, incorporated several companies and put the stock in the market. The whole thing smells very strong of wild cat.

At the time the mines mentioned by "X" were located, the parties were notified by the Deputy Recorder of Summit District that the mines were in that District, and that it would be necessary for them to record them there, or they would be located by other parties. He was insulted for his trouble. The mines were afterwards located by other parties, and properly recorded and worked. There is a suit now pending in the District Court between the two claimants. If the laws are worth anything the "Jumpers" will lose the mines, and any man that buys a share of stock will buy a law suit. The miners of Santa Fe and Summit districts have done all in their power to have the difficulty settled, but the Bunker Hill party persistently refuse.

The Gold Point mine is the Iroquois (Egla Co.), located by Dr. Goodfellow & Co., in July last, but jumped by O. Herrin & Co., who also jumped a part of the Pleasant Valley ranch. The Gold Point claim was recorded under protest in December, and the company have not a shadow of title to the mine. The company are not putting up a mill, neither do they own a single mill seat on Big Smoky.

These are the facts in the case, all of which I am ready and able to substantiate.

If newspaper correspondents would go to the districts about which they write, and inform themselves, instead of stopping in Austin and writing about matters that they are unacquainted with, it would be much better for themselves and the community at large.

By publishing this you will confer a favor upon the Recorder of Summit District, and many others.

Respectfully, R. Y. ANDERSON.

AUSTIN, June 4th, 1864.

IF you open the lower sash of a window, there is more draught, than if you open the upper sash. Explain the reason of this. If the lower sash be open, cold external air will rush freely into the room and cause a great draught inward; but if the upper sash be opened, the heated air of the room will rush out and of course, there will be less draught inward.

BULLION FROM WASHOE.—The amount of bullion shipped from Washoe during the week ending June 9th, was $288,291, an increase of $32,757 over the shipment of the week previous.

Mechanical Department.

CIVIL ENGINEERING IN FRANCE.

There is a marked difference between the condition and practice of civil engineering in France and other countries. In the former the civil engineer scarcely has an existence except as a government officer. The public works of France, such as common roads, railroads, lands, docks, bridges, works of irrigation and drainage are all directed by the Minister of Public Works, who is responsible to the Emperor alone. The civil engineering department is managed very much as an army, with a commander-in-chief at its head, and a gradation of ranks down to a simple private. This army is apportioned to different districts, each district having its subordinate chief. These districts are eighteen in number. One part of the business of the various officers is to find out what the people of their respective districts need in the way of public improvements, and how those improvements should be carried out. The engineers are all well trained and highly educated men. They are educated especially for their profession, and reach their respective ranks only on the merit of skill and proficiency, being often specially promoted for meritorious service, as in the army. The engineer corps hold high rank, but generally with poor salaries, barely sufficient to afford a living. This, however, is in part compensated by a retiring pension, when they become old or disabled. Their position in society is very high, and according to rank. An honorable position is always assigned them in all pageants, and they are not forgotten at the Imperial levees.

Mining operations in France are also regulated much in the same manner, by a special civil organization, known as the *Ingenieurs des Mines*, also under the especial supervision of the Imperial power. This peculiar feature in the industrial economy of France is no new thing with that people. It is traced back as far as to the reign of Henry IV. The system has been much improved, but in detail only, by the first and present Napoleon. No system can be more perfect in theory, and, with the exception of the extravagance always attendant upon public enterprises, might, perhaps, be profitably imitated by other nations.

French engineers, although they are thoroughly versed in all the theory of their profession, and possess a vast amount of book learning, are, nevertheless, not remarkable for originality of conception, and are far behind both English and American engineers on the score of practicability. When judged by the grandeur of their works, the French may excel; when tested by practical or commercial results, they are far behind. The execution of their works is almost faultless; their practical value is almost always disproportionate to their cost.

France, in all great and progressive works, lays back, till others have experimented; then, in the construction of similar improvements, draws all the engineering talent of the world into her service, and executes works of magnificence and durability, which are rarely equalled by any other people. This she is able to accomplish by her concentration of genius, and the unlimited millions at her command.

When the time came for canals and mail coaches to give way to railroads and locomotives, French engineers looked on doubtingly. When the effects of these improvements upon commerce was unmistakeable, French engineers began to put their genius to them with a result which, according to high English authority, eventuated in many instances in important improvements. The sewerage system of Paris was founded upon experiments made in London. France waited until the benefits in her sister metropolis were proven. The French engineers then went to work under Paris, in clear ground, and with no vested or conflicting interests to contend with, and with unlimited means at command, soon constructed a system of sewerage unequalled on the globe, and which may well be considered one of the modern works of the world. In their construction, however, the cost for show has been greater than that for utility. In nothing which French engineers have attempted has this peculiar national characteristic been more fully illustrated.

Mining Invention—an Apparatus for Indicating Quantities Drawn from Pits or Mines.—The object of this invention, which has recently been patented by Mr. George Yates, of Oswaldtwistle, is to correctly register the quantity of coal or other material drawn from pits or mines, which is effected as follows: Placed in a suitable position at or near the mouth of the pit or mine, or other convenient place, and in connection with suitable gearing, are two dial plates (the one registering the number of tubs or measures, the other the number of quarters, there being a certain number of tubs or measures to one quarter,)provided with figures or pointers, the said gearing being connected with and acted upon by means of a star-wheel which derives its motion from a projection or catch worked from the vertical shaft used in hoisting or winding the said coals or other materials, or in any other convenient manner from the said hoisting or winding machinery. As each tub or other measure ascends the pit or mine, the projection or catch before named acts upon the star wheel, which communicates motion to the gearing and figures or pointers of the first-mentioned dial plate, thus registering each tub or measure on its ascent; the number of tubs or measures constituting a quarter having ascended, the gearing will communicate motion to the finger or pointer on the second-mentioned dial plate, and register the quarters; this being repeated, the number of tubs or measures of coal or other materials drawn from the pit or mine, may be ascertained at any time on reference to the dial plates and fingers or pointers thereon.—*London Colliery Guardian.*

Improvements in Artillery.—We were shown yesterday, a very skillfully constructed model of a most ingenious piece of mechanism, the invention of Chas. W. Heath, of the battery, at this post, and for which it is his intention to take out a patent as soon as possible. It would be manifestly improper to explain the particulars until the patent is effected. Suffice it to say that the object is, by mounting on one carriage four guns, to work them with the same number of men, four instead of nine to each, as at present, and by a peculiar process of breech-loading, to enable the guns to be fired ten times in a minute. It ought to be added that the success of the invention is proved to a demonstration in the minds of such military men as have examined it, and we wish its inventor success in procuring a patent for it, and that remuneration which he deserves for the length of time he has spent in perfecting his ideas. The model is workman-like, and the drawings clear and distinct.—*Union Vidette, May 31st.*

A New Method of Using Petroleum.—M. Forcauet, of Paris, announces a new method for burning petroleum, after the manner of gas. The fluid is driven by mechanism which is not described, through pieces precisely similar to gas pipes, and issues through burners of a peculiar construction, arranged in the same positions as ordinary gas burners. The force that drives the liquid through the pipes would eject in a stream from the burners if the flow was not controlled by a regulator, which, of itself, forms the chief feature of the invention. It is said that one of the most frequented saloons in Paris has been lighted by it for six months. The Gas Light Journal of that city suggests that the city authorities should prohibit the distribution of liquid petroleum in pipes on account of the great danger to be justly apprehended from fire.

A Useful Invention.—Mr. F. A. Morley, of New York city has recently patented an invention for making a noiseless cog-wheel. The invention consists simply in casting the centre or hub of the wheel and the periphery in separate pieces. These pieces are so cast that each of the arms, when brought together are joined after the manner of a "splice" and a piece of gutta percha placed between the parts of the splice so as to completely insulate the center from the circumference. The splice may be secured by screws or in any other manner. The noise produced by the running together of the cogs is of course absorbed by the insulating medium. Its utility in many cases must be apparent.

The Los Angeles *News* has intelligence from Catalina Island, to the effect that mining operations are progressing finely. A silver and galena bearing lode and a copper mine, are among the recent discoveries.

Heat and Force.

Whenever friction is overcome, heat is produced; and the amount of heat so produced is the exact measure of the force expended in overcoming the friction. Says a distinguished lecturer, while speaking upon the subject of "Heat Considered as a Mode of Motion:"—"We usually put oil upon the surface of a bone; we grease the saw, and are careful to lubricate the axles of our railway-carriages. What are we really doing in these cases? Let us get general notions first; we shall come to particulars afterwards. It is the object of the railway engineer to urge his train boldly from one place to another. He wishes to apply the force of his steam, or his furnace, which gives tension to the steam to this particular purpose. It is not his interest to allow any portion of that force to be converted into another form of force which would not further the attainment of his object. He does not want his axles heated, and hence he avoids as much as possible expending his power in heating them. In fact he has obtained his force from heat, and it is not his object to reconvert the force thus obtained into its primitive form. For, by every degree of temperature generated by the friction of his axles, a definite amount would be withdrawn from the urging force of his engine. There is no force lost absolutely. Could we gather up all the heat generated by the friction, and could we apply it mechanically, we should by it be able to impart to the train the precise amount of speed which it had lost by the friction. Thus every one of those railway porters whom you see moving about with his can of yellow grease, and opening the little boxes which surround the carriage axles, is, without knowing it, illustrating a principle which forms the very solder of Nature. In so doing he is unconsciously affirming both the convertibility and the indestructibility of force. He is practically asserting that mechanical energy may be converted into heat, and that when so converted it cannot still exist as mechanical energy, but that for every degree of heat developed a strict and proportional equivalent of *locomotive force* of the engine disappears. A station is approached, say at the rate of thirty or forty miles an hour; the brake is applied, and smoke and sparks issue from the wheel on which it presses. The train is brought to rest: how? Simply by converting the entire moving-force which it possessed at the moment the brake was applied, into heat.

The Golden Rule.—This side-wheel steamship, 3,500 tons, constructed by Henry Steers for the Roberts' Opposition Line, takes her place in the line on the 23d of this month from New York. The dimensions are as follows: 310 feet long, 44 feet 6 inches wide, and 24 feet 6 inches deep. She is very heavily built. Her frame is entirely of white oak and locust, which is thoroughly iron-braced and strapped. Her floors are filled in solid, and caulked.—She also has four water-tight compartments. Her engines were built by the Morgan Iron Works. Diameter of cylinder, 81 inches; stroke of piston, 12 feet; diameter of piston rod, 8½ inches; diameter of crank-pin journal, 10½ inches; length of crank-pin journal, 3 feet 6 inches; diameter of beam center journal, 12 inches; diameter of water-wheels outside of buckets, 30 feet; width of buckets, 12 feet; diameter of water-wheel shaft journal, 18 inches; length of water-wheel shaft journal, 20 inches. She has surface condensers and tubular boilers. As regards her means of ventilation, neither pains nor expense has been spared to make her rank A 1 in that respect. Her model is extremely beautiful, being similar to that of the Adriatic, and as to her speed, she is very fast, having made fifteen miles per hour on her trial trip.

An Iron-clad Company.—The recent defects in many of the iron-clad vessels in use in the navy, and especially their deficiencies in seagoing qualities, have induced some of our own most scientific engineers to study the matter more closely than ever before, and the result has been a patented invention which, it is claimed, will obviate all the present difficulties and render iron-clads seaworthy, more buoyant, and able to carry in the heaviest weather a greater amount of iron plating than any ships yet built. A company for the construction of vessels on the new plan is forming in this city under the name of the "American Ship-Building Company.—*N. Y. Eve. Post, May 11th.*

New Car Invention.—There is a new car invention—by a Boston mechanic—which will add much to public convenience and security if it is adopted into general use. It is a two-story car—will accomodate more than double the number of passengers now transported on the same base, and is so constructed that the upper story can be used for a smoking or sleeping apartment with perfect ease.

Patent Department.

A New Water Wheel—*A California Invention.*—Mr. B. Fauchery, of Nevada county, has recently invented and put into practical operation an hydraulic wheel, of a simple and compact construction, yet most effective in operation. Mr. F. has put one of these wheels into operation at the new quartz mill recently erected by Mr. L. E. Charonett, about a mile and a half southeast from the town of Nevada. It is known there as the "French wheel." The editor of the Nevada *Gazette*, who recently examined it, says:—"It is about eight inches in diameter and a foot in length, of cast iron, and in pattern something like a double turbine wheel. It is enclosed in a cast-iron case not much bigger than a large-sized stove pipe hat. The whole affair, though made of iron, could be picked up and carried off by a man of moderate strength were it not that Charronatt has fastened it securely to a couple of heavy timbers. A head of from fifty to sixty inches of water, with a fall of 125 feet, turned into this little insignificant looking affair through a pipe converts it into a 30-horse power engine, which performs steadily and smoothly, and with wonderful simplicity." The inventor had previously put up one of these wheels for the Fellowes Company, at German Bar, on the Yuba river. Preliminary applications for a patent for this invention have been made through the Patent Agency connected with this office.

A Pan for Dry Crushing.—Mr. Faucher has also applied, through the Agency connected with this office, for letters patent for a mining pan of his invention, which is designed to grind the quartz dry. This pan is constructed so as to work very much upon the principle of the ordinary mill-stone—the upper and lower portions (corresponding to the upper and nether mill-stones) are cast very heavy. Strips of wrought iron are placed into the mould before casting, so as to be imbedded into the face of the grinding surface. The quartz is fed to the machine after being reduced by previous stamping to about the size of peas. The two grinding surfaces are held to their places by set screws above and below. The machine is so constructed as to allow of the outer surfaces of both the upper and lower grinding plates to be constantly submerged in a constantly changing bath of cold water, to prevent the plates from becoming over-heated when in operation. Mr. Faucher claims that he can reduce rock to the desired fineness more effectively, and with less cost, with this machine, than by any other machine in use, either wet or dry, and also preserve the universally acknowledged advantages of the "dry process."

A New Wine Press—*A California Invention.*—Mr. Elisha W. Walton, of Drytown, Amador county, has shown us a model of a wine press, which is also equally applicable to compressing almost any substance, however bulky. The machine is very compact and simple; easily washed, and capable of exerting almost any desirable power. Mr. W. has made application for a patent for the same through the Agency connected with this office.

A Machine for Turning Statues has been produced in New York, on the principle of Blanchard's method of turning irregular forms. The cutting tool in this instance is a sharp steel drill, rotating with great velocity. A bust of Daniel Webster, turned out with this machine, was exhibited at a meeting of the Polytechnic Association, at the Cooper Institute, New York, on the 28th of April, in which the likeness of the great orator was said to have been almost perfect—the deep, cavernous eyes and calm, thoughtful expression being reproduced from the original with the most delicate fidelity.

The new ferry boat for the Oakland Ferry line has been launched. She is built on the New York plan, with an entrance at each end.

The Use of Water with Fuel.—There is no absolute increase of heat from the decomposition of water and the burning of its elements. Such a problem would be very much akin to that of perpetual motion. A very important economy doubtless arises from the mechanical action of water or steam on coal or other fuel, but no positive increase of caloric.

A furnace has been in use for some time at Newark, N. J., constructed on the following principle:—The air enters through hollow grate-bars, and issuing from holes in their lower sides passes up between them to the fire. This circulation of air prevents the bars from melting or burning. Wet tan bark, dripping with water, is shoveled into the furnace, and an intense heat is the result. Whenever the furnace doors are open the interior of the furnace is filled with smoke, but as soon as the doors are closed the smoke disappears, and a passer-by would not know from looking at the chimney that there was any fire in the establishment.

At the Providence gas works, superheated steam is used in the furnaces employed for heating the retorts, and the saving of fuel is said to be fifty per cent. Twice the amount of coke is produced when steam is used in the furnaces, as when steam is not thus employed. The waste heat from the furnace passes through an upright boiler in the rear of the retorts, and the steam is brought forward through a pipe which is coiled around the fire-box, five jets above the grate and two below, on each side. The heat in the furnace is so intense that they are obliged to use clay retorts for making the gas; iron would soon burn out. The above facts were elicited at a late meeting of the Polytechnic Institute, at New York.

Earth in the Sacramento River.—Dr. Logan, of Sacramento, publishes an article in the *Pacific Medical and Surgical Journal*, in which he makes a calculation as to the amount of solid matter that floats past Sacramento in the waters of the river:

We are not aware that a sectional area admeasurement of the river has been made; but estimating the amount of water which passes down the river each second, during high water, at 327,600 cubic feet, we find on an average there are carried in suspension past Sacramento City—(a certain portion being deposited as is shown by the elevation of the low, as well as high water marks on the chart)—150,569,012 and 380-486ths grains per second, or 38,717 and 7-10ths tuns every hour, more or less, according to the stage of the American river—this affluent, owing to mining operations, being always most charged with detritus. The solid material, thus ascertained to be suspended in the water, is found, on calculation, to be sufficient to cover in one year a square mile to the depth of 256 and 5-10ths feet.

Singing Fishes.—Dr. Dufosse has communicated to the French Academy an account of certain researches which he has recently made into the vocal powers of fishes. His observations have been confined chiefly to the species *Trigla* and *Zeus*—gurnards and dories. He ascertained that the sounds proceeded from the vibration of the muscles belonging to the air-bladder, and that in some of the former these sounds may be heard six or seven yards.—The sounds were both short or instantaneous and prolonged; the pitch often varying during a single "sonorous emission." In some instances a large number of completely distinct sounds were produced, variously modulated.

New Uses of Iodine.—From the specifications recently issued, of a patent by Professor Hofmann, of London, we learn that a new coloring matter, which dyes silk and wool of a beautiful violet, blue violet, or red violet tint, has been produced by the application of iodine extracted from sea-weed. It has long been thought that if iodine could be used as a coloring substance it would be one of the most powerful known. The patented process consists of mixing in certain proportion the substance called rosaniline with the iodides of ethyl, methyl, or amyl. This dye may be used in the same manner as the aniline colors, and is already in the hands of practical people in all the manufacturing districts, and bids fair to be "the color" of the season.

A New Mining Process.—The Virginia papers state that a new process, known as the "Rivot Process" for working minerals is about to be put into practical operation in that city some time during next month. It claims to be able to work any kind of mineral and silver and gold with but a trifling, if, any loss, and at about the same expense as is incurred now. The process has been patented in the United States, Mexico, Pern, Chili, Bolivia, Spain, Russia and the Province of Mendoza. Rock paying $10 per ton in silver could be worked to advantage with this process in Europe. We have heard considerable talk about the process, in this city, for some months past, and shall be happy to give the public any results which may be obtained from its practical application. It is certainly a great desideratum to be able to work a silver ore, profitably, that will not return a gross yield of over $20 or $25. Such a result would give large value to hundreds of veins that are now worthless. Perhaps it may not be too much to expect, in these times of improvement and invention. We prefer to speak encouragingly of all experimental operations; as by throwing discouragements in the way we *may* put afar off important improvements, which might otherwise be brought to benefit the present day and generation.

The drains of Paris are declared to be the most wonderful work of the kind ever executed. Hundreds of hollow tubes, each one a marvel of solidity and skill, run from every quarter of the town to one immense receptacle of the filth and waste water thus carried off. Before the mouth of this hideous reservoir is placed a grating, through which the mass of infection pours night and day. This grating is meant to prevent the passage of any object beyond a certain size, which might otherwise obstruct the tube.

These sewers are built in a style of magnificence which might be expected from a body who were not limited as to expense. The large intercepting sewers are made with footways on each side. Those along the Rue Rivoli and the Boulevard Sebastopol are so large that a full-sized man can walk on the footway with his hat on. They are kept in a state of cleanliness that is surprising. The steps that lead down to them are wide enough for two persons to descend side by side. A railway runs along the edge of each of the footways of the large sewers, and below is the invert forming the sewer proper. An exceedingly well devised apparatus travels up and down this railway, and mechanical scrapers keep the bottom of the sewer constantly cleansed.

Manufactures.—The rapid increase of the manufactures of the United States, has no parallel in history. During the decade which closed with 1860, this department of national wealth outstripped all others—and since that time, the progress has been in an increased ratio. From 1850 to 1860, the increase was eighty-six per cent; the value of the manufactured articles being at the last census $1,900,000,000. The product of the last four years will, in all probability, exceed that of the previous ten years. The demands growing out of the increase of population, and the necessities of the war, have taxed all branches of manufactures in the United States to their utmost capacity. Throughout the New England and Middle States, factories are springing up to meet the increased demand. We are told that these States are now reaping a rich return for their labor. The inventive genius of the Yankee nation is constantly bringing out new, or improving upon the old methods of the manufacturing world, and soon, we doubt not, the manufacturers of the United States will be able to compete with those of France and England.

To Prevent Hydrophobia.—Take immediately, warm vinegar or tepid water, wash the wound clean therewith, and then dry it; pour then upon the wound a few drops of muriatic acid. Mineral acids destroy the poison of the saliva, by which means the effect of the latter is neutralized.

Another Remedy.—A dog-keeper in England, who was bitten eight times by rabid dogs each time averted the horrors of hydrophobia by allowing the common nitrate of silver to filter the wound, which decomposed the saliva, and thus destroyed the virus. A London physician adopts and indorses the remedy.

In the neighborhood of the Caspian Sea, petroleum is used as fuel by impregnating clay with the combustible fluid. The Norwegians mix tar and sawdust, molded in the form of bricks, and burn in a similar manner.

BRIEF MENTION.

Ship-builders and owners, of Bath, Me., have sold ships enough to Europeans, since the commencement of the war, to amount to $3,000,000 in gold. Of this sum $2,000,000 are still on deposit in Europe.

The two years' term of most of the San Francisco Notaries appointed by Governor Standford has expired. The office is in demand.

State Capitol.—Work upon the State Capitol is still progressing, slow but sure.

Weighing so many "stone" is often seen in English prints. The weight is thus defined: A stone. horseman's weight and of iron is 14 pounds; of glass 5 pounds; of butcher's meat, 8; of hemp, 32; and of cheese, 16.

An Indian in a good state of preservation, was recently exhumed from a salt-hed in Nevada Territory.

The mountain roads are all in fine condition, and hundreds of prairie schooners are rolling over the Sierras hitherward hound.

A considerable amount of machinery is at present crossing the Sierras for various mining sections in the Territory.

Heavy Scales.—The proprietor of the "Willows," near American Flat, Washoe, is erecting the largest scales for weighing quartz ever put up in the Territory. Their weighing capacity is 35,000 pounds—over sixteen tons.

An effort has been made for the establishment of a corps of naval engineers, with Ericsson at its head.

The Opposition Steamer Washoe will take her place again up the Sacramento river, on Monday, when lively times may again he expected on each opposition day.

Mr. Perry Jones has been elected Recorder of Reese River District. Several amendments to the mining laws went into effect on the 4th inst.

The Indiana Ranch Gold and Silver Mining Company have filed their certificate of incorporation in the Clerk's office of Yuha county.

California Pea-nuts.—Pea-nut raising is still on the increase in California. It is said that the crop for the present year promises to he several hundred per cent greater than any former one. Some idea of the importance of this crop may he inferred from the fact that a firm in this city paid $5,000 for the crop of one ranch on the Sacramento, last year; and the same ranch will have double the crop this year.

Considerable alarm is felt throughout Marin county on account of the scarcity of water. A meeting of citizens of San Rafael was held last week to devise ways and means to introduce water from Dixon's Springs into that town.

The Open Sesame Gold and Silver Mining Company, at Mount Diablo, will shortly have their new mill up and in operation.

We learn from San Diego that the Escondido Gold Mining Company cleaned up from their first week's run elevcu hundred dollars.

Scaddon & Co., in Grass Valley, Nevada county, recently crushed 41½ tons of rock, which yielded $12,516—equal to about $300 per ton.

Loryea's Mining Directory.—We have secured a copy of Loryea's Miuing Directory for Nevada Territory. It is a small pamphlet of fifty-six pages, containing a general list of companies, quartz mills, reducing works, together with a brief synopsis of many other things pertaining to the mining interests of Nevada Territory. From it we gather the following items;

The number of steam engines for hoisting purposes in the Territory is estimated at 37, with an aggregate steam power of 1,923 horse. The number of engines for mills, 85; steam horse-power, 3,389; number of mills, 95; number of stamps, 1,259; crush per day, 1,791 tons; arastra mills, 10, containing in the aggregate 34 arastras; of the above mills 33 are worked by both water and steam power. In Esmeralda there are 10 mills with an aggregate of 103 stamps, and crush per day 122 tons of ore. There are about twelve mills iu course of erection in Gold Hill, and six in Washoe Valley. In Reese River there are about nine mills in course of erection.

Correspondence.

[Written for the Mining and Scientific Press.]

From Ione City, Nye County, N. T.

Editors Press:—In writing you from this place, I am not unmindful of the fact that few of your readers will probably understand where it is. I must therefore add to their geographic knowledge by explaining that Ione is the county seat of Nye county, and that Nye county consists of a tract of country some eight or ten thousand miles in extent, forming the southeastern corner of Nevada Territory. Ione is about 130 miles E.S.E. of Virginia City, and nearly the same distance and direction from Carson. It is 60 miles S.S.W. of Austin, and 35 miles S.E. of Middle Gate on the overland stage road. The town is situated in a broad ravine on the western declivity of the Shoshone range of mountains. Though not yet six months old, it contains nearly 300 houses, and hard upon a thousand inhabitants. The principal mining districts iu this county are the Union. in this neighborhood, the San Antonio, 60 miles further south, the Mammoth, ten miles west, and part of Washington, to the east of Reese River, being on the west side of the Toyahee mountains, with the Bunker Hill, Smoky Chimney and La Plata districts on the eastern slope of that range.

The character of the mines in the Union district is similar to those about Austin, the ledges here, as a general thing, being larger. Here they vary from three to ten feet in width, while there they are not more than two or three feet wide Here they pitch at an angle of seventy or eighty degrees; about Austin many of them lay quite flat, the pitch being not more than forty-five degrees. The ore is the same in both places—rich chlorides and bromides, above the water level, and the sulphureted ruby silver below. Quite a number of claims have now been opened in this district to a depth running from forty to sixty feet. In every case, so far as I have examined or heard, the ledges have maintained themselves well, growing larger and richer as descended upon. Several claims that I might mention look exceedingly promising, having turned out large amounts of rich ores from the prospecting shafts. Some of this ore, without being closely sorted, yields at the rate of $1,100 to the ton, by working process. Some of them, it is calculated, will yield $400 or $500 to the ton, working everything between the walls. Owing to the abundance of fuel, grass and water, ores can be reduced here at half the cost about Virginia City. Wood of the best quality for generating steam can be had in Ione at three dollars a cord, and owing to the great quantities of timber close at hand it can never he much dearer. So favorably do I think of the mines here that I should recommend them to the attention of millmen and capitalists before any others that I know of. In buying into them no one need go altogether at random, many of the ledges being sufficiently opened to enable one to judge of their value. Mills are greatly needed here, and though arrangements have been made for bringing in several, this is still a fine field for engaging in the business. ***

Ione City, N. T., May 25, 1864.

[Written for the Mining and Scientific Press.]

Smoky Valley District, Reese River.

Editors Press:—In spite of the tight times in this Territory, the work of developing the miues in this section still proceeds. At a meeting of the miners of this, the Smoky Valley district, held on the 14th of May, a law was passed requiring that one day's labor should he performed on each claim of 200 feet in the district, within each and every month. With scarcely an exception the so-called first-class claims have commenced operations, and will not stop until $1,000 shall bave been expended, which is the limit that has been set to make mines "real estate" here. A few are now numbered in that list, hut that few pay no regard to district laws. They started to develop their mines, and will continue until they are proved worthless or valuable.

THE ANTIQUARIAN

stands pre-eminently among this number. Work was first put on the croppings until the company were satisfied that they had a good mine. Every day showed fresh indications of richness, and from $50 on the very top, at a depth of 18 feet an assay of $993.86 per ton was obtained. Then, as a greater depth could he gained, and in the middle of the location, by a tunnel from the creek, than could he reached hy a shaft or incline, the company hegan a tunnel, which will tap the ledge at a depth of about 200 feet. Several small veins have heen crossed in the tunnel, all of which contain much silver, some having been tested hy the Superintendent here. His process is to erush in a mortar, then roast over a fire in a frying-pan and amalgamate with salt and quicksilver in a bake oven or hettle. I hardly think this should he called the "sage hrush process." On straining, the hullion is always found. The tunnel is now very near the ledge, and may strike it any day. There are but 600 feet in the location, and the croppings are plain and positive—some distance on each end of the original claim holding an average width of four feet, and straight as an arrow. The company have a mill site adjoining the mine, and have made arrangements to have their mill in operation as soon as sufficient ore has heen taken out to keep it going. This will be the first ledge opened helow a water level in this valley.

OTHER MINES.

The Ellery, Comstock, Masonic Tunnel, Clinton, Gold Eagle and Great Central companies, in this canon, are also at work. A shaft is being put down on the latter, which will soon show what is to he expected from it. There are 1,400 shares in the location. The ledge is a very large one, and stands up bold and prominent more than half the distance of the claim. There is more quartz in this claim than can be disposed of in a century. The croppings have every indication of being all that is desired.

It seems to he the great trouble here that we have too large a scope of rich mineral. The Toyahee range, as far as prospected, has shown itself rich.

The subject of greenhacks for currency is heing agitated here, hut no definite settlement has heen arrived at. Why not issue a stock currency? then every one will have plenty of money, and the present crisis will be laughed at. Feet, of conrse, will he accepted at par, and coupons could he affixed, with the slight difference that instead of calling for interest from the holder, it would he for assessments, *payable in stock.*

The town of Clinton still improves, hut slowly. A post-office will he established here on the first of July, with a semi-weekly mail, and supply a want which has been felt for a long time.

Clinton, June 8, 1864. Unassessable.

Experimental.—It will be recollected that Dr. Hall, of Sacramento, has recently heen experimenting with reference to ascertaining the force and retention of the venom of the rattlesnake. His experiments go to establish the fact that this venomous reptile cannot strike more than two or three times without losing the force of his venom, to such an extent as to require some twenty-four hours, more or less, to restore his power, in that respect. He has now procured a still larger snake than the one hitherto operated with, and will submit to his snakeship larger game. A cow has been obtained for the purpose.

RICHARD WEGENER,
Accountant, Mining Secretary,
AND GENERAL AGENT.
No. 204 Montgomery St., Southeast cor. Montgomery & Pine Sts.,
11-1m SAN FRANCISCO.

BLASTING POWDER!

Prime Blasting Powder, on Consignment

And for sale in lots to suit purchasers, by
J. S. CURTIS,
6v8tf- No. 405 Front street, San Francisco.

Worth Considering.—Advertising has proved the medium of success to many of the most prominent business men of the world. Merchants, Inventors, Builders, Patentees, Manufacturers, Foundrymen, Machinists, and, in fact, all who wish to call the particular attention of the Mining, Professional, Mechanical and Industrial members of the community to their business, should not fail to advertise in the Mining and Cientific Press. The circulation of the paper is extensive, and has a wide range, reaching the most intelligent readers in every mining settlement of importance on the coast. A large number of copies are also sent East. Our terms are reasonable. "Live and help live" we believe to be a sensible motto.

Mr. Jarvis Jewett is our duly authorized advertizing agent and collector in this city.

Assessments.

Baltimore Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held May 30th, 1864, an assessment (No. 2) of seventy-five cents per share was duly levied, payable in U. S. coin, to J. Warren Clark, Secretary, 430 Montgomery street, San Francisco, or to H. J. Hawkins, Treasurer, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 15th day of July, 1864, at the office of the Company, at 2 o'clock P. M., to pay the delinquent assessments and cost of advertising and expenses of sale. By order of the Board of Trustees.

J. WARREN CLARK, Secretary.

Office, No. 430 Montgomery street, No. 5, 3d floor, San Francisco.
San Francisco, June 3, 1864. 23-4t

Gold Rock Gold and Silver Mining Company, Murphy's Camp, Calaveras county, California.

Notice is hereby given that at a Meeting of the Board of Trustees of said Company, held on the 30th day of May, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 2d day of July, 1864, will be advertised on that day, as delinquent, and unless payment shall be made before, will be sold on FRIDAY, the 22 day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale. By order of the Board of Trustees.

EM. FENARD, Secretary.
23-4t Office, 433 Montgomery Street, San Francisco.

Coso Silver Mining Company, Coso District, Tulare county, California.

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 2d day of June, 1864, an Assessment of one dollar per share was levied upon the Capital Stock of said Company, payable immediately, in United States Gold or Silver Coin, to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday the 2d day of July, 1861, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 16th day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of sale. By order of the Board of Trustees.

D. W. CHAMBERS, Secretary.
23-4t Office, No. 636 Clay street, San Francisco.

Gertrude Gold and Silver Mining Company, Reese River District, Lander county, Nevada Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 28th day of May, 1864, an Assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable on the 1st day of June, 1864, in United States gold coin, to the Secretary, or to R. T. Hill, Superintendent, at Austin, Nevada Territory.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 2d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 16th day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. F. HUGHES, Secretary.
23-4t No. 305 Montgomery street, San Francisco.

Monarch Gold and Silver Mining Company, Reese River District, Lander County, Nevada Territory.

Notice is hereby given that at a Meeting of the Board of Trustees of said Company, held on the 28th day of May, 1864, an Assessment of 25 cents per Share was levied upon the Capital Stock of said Company, payable on the 1st day of June, 1864, in United States Gold Coin, to the Secretary, or to R. T. Hill, Superintendent, Austin, N. T.

Any Stock upon which said Assessment shall remain unpaid on Saturday, the 2nd day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 16th day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the Sale. By order of the Board of Trustees.

W. F. HUGHES, Secretary.
23-4t Office, No. 305 Montgomery Street, San Francisco.

Sun Francisco Gold and Silver Mining Co. Sierra Madre Gold and Silver Mining Company. Empire Gold and Silver Mining Company, Rock Spring District, San Bernardino county, California.

Notice is hereby given that at a meeting of the Board of Trustees of said companies, held on the 31st day of May, 1864, an assessment of five cents per share was levied upon the capital stock of each of said Companies, payable on the 2d day of June, 1864, in United States gold coin, to the Secretary.

Any stock upon which said assessments shall remain unpaid on Saturday the 2d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 16th day of July, 1864, to pay the delinquent assessments, together with costs of advertising, and expenses of the sale. By order of the Board of Trustees.

G. BOWER, Secretary.
23-4t Office, No. 611 Clay street, San Francisco.

Siskiyou Lion Mining Company, Siskiyou County, California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 26th day of May 1864, an Assessment of Fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, to the Secretary, in U. S. Gold Coin.

Any stock upon which assessment shall remain unpaid on Saturday, June 25th, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, July 12th, 1864, at 12 o'clock M., to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

JAS. C. NORRIS, Secretary.
Office, No. 430 Jackson street.
San Francisco, May 27th, 1864. 22-4t

Henry and Barnard Consolidated Gold, Silver and Copper Mining Company, Arizona Territory.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 2nd day of June, 1864, an Assessment of Twenty (20) cents per share was levied upon the Capital Stock of said Company, payable on the 3d day of June, 1864, in United States Gold Coin, to the Secretary, at his office.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 2nd day of July, 1861, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 18th day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the Sale.

On all Certificates of Stock advertised for sale as delinquent, the holders will be charged by the share to pay expenses.

A discount of three per cent. will be deducted on all assessments paid on or before the 11th day of June. By order of the Board of Trustees. I. M. BLOOD, President.

GEO. W. GILDERSLEEVE, Secretary. (23-4t)
Office, 302 Montgomery St., third floor, room 5, San Francisco.

Pensiee & Sparks Gold and Silver Mining Com- pany, Reese River District, Lander county, Nevada Territory.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 28th day of May, 1864, an assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable on the 1st day of June, 1864, in United States gold coin, to the Secretary, or to R. T. Hill, Superintendent, Austin, Nevada Territory.

Any Stock upon which said assessment shall remain unpaid on Saturday, the 2d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 16th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. F. HUGHES, Secretary.
23-4t Office, No. 305 Montgomery street, San Francisco.

Lady Adams Gold and Silver Mining Company, Reese River District, Lander county, Nevada Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 28th day of May, 1864, an Assessment of 20 cents per share was levied upon the Capital Stock of said Company, payable on the 1st day of June, 1864, in United States gold coin, to the Secretary, or to R. T. Hill, Superintendent, Austin, Nevada Territory.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 2d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 16th day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. F. HUGHES, Secretary.
23-4t Office, No. 305 Montgomery street, San Francisco.

Meder Gold and Silver Mining Company, Santa Cruz County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of June, 1864, an Assessment of fifteen (15) cents per share was levied upon the Capital Stock of said Company, payable immediately, in United States Gold Coin, to the Secretary, at the Office of the Company, No. 537 Washington Street.

Any Stock upon which said assessment shall remain unpaid on Saturday the 9th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 25th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

MILO CALKIN, Secretary.
23-5t Office, No. 537 Washington street, San Francisco.

Blue Jacket Gold and Silver Mining Company, Devils Gate District, Lyon County, Nevada Territory.

Notice is hereby given, that at a Meeting of the Board of Trustee of said Company, held on the 26th day of May, 1864, an Assessment of 25 cents per Share was levied upon the Capital Stock of said Company, payable on the 30th day of May, 1864, in United States Gold Coin, to the Secretary.

Any Stock upon which said Assessment shall remain unpaid on Saturday, the 25 day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 9th day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the Sale. By order of the Board of Trustees.

WM. A. RUST, Secretary.
22-5t Office, 212 California street, San Francisco.

Star of Nevada, Gold and Silver Mining Company, Reese River District, Lander County, N. T.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 31st day of May 1864, an assessment, of 50 cents per share was levied upon the capital stock of said Company, payable on the 1st day of June, 1864, in U S. Gold Coin, to the Secretary, at the Office of the Company, or to Ed. Muller, superintendent at Austin, N. T.

Any Stock upon which said assessment shall remain unpaid on Saturday, the 2nd day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 16th day of Jnly, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees. JOHN DUNN, Sec'y.

23-4t Office, 728 Montgomery Street, San Francisco.

Mount Eden Mining Company (Owen Ledge) Gold Hill District, Nevada Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Mount Eden Mining Company, held on the 31st day of May, 1864, an Assessment of fifty cents per share, was levied upon the Capital Stock of said Company, payable on the 4th day of June, 1864, in United States gold coin to the Secretary, or to Frank Morgan, Superintendent at the mine.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 2nd day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 18th day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

H. B. CONGDON, Secretary.
23-4t Office, No. 320 Washington Street, (Room 3) San Francisco.

Sno Lorenzo Gold and Silver Mining Company, Santa Cruz County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 21th day of May, 1864, an assessment of fifty (50) cents per share was levied upon the Capital stock of said Company, payable on the 25th day of May, 1864, in United States Gold Coin, to the Secretary, at the office of the Company, or to Daniel S. Flagg, Superintendent at the mine.

Any stock upon which said assessment shall remain unpaid on SATURDAY, the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 11th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

MILO CALKIN, Secretary.
Office, No. 537 Washington Street, San Francisco. 22-4t

Blue Dragon Mining Company, Inyo District, Tulare County California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 23d day of May, 1864, an assessment of twenty cents per share was levied upon the Capital Stock of said Company, payable immediately, in Gold Coin of the United States, to the Secretary, at the office of the Company, 728 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the Twenty-Fifth day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 9th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale.

N. G. FRENCH, Secretary.
22-4t Office, 728 Montgomery street, San Francisco.

Brewer Gold and Silver Mining Company, Silver King District, Amador county, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 23d day of May, 1864, an Assessment of fifteen cents per share was levied upon all the assessable Capital Stock of said Company, payable on the 21st day of June, A. D., 1864, in United States gold coin, to the Secretary, F. A. Brewer, No. 40 Montgomery Block, San Francisco, Cal.

Any stock upon which said Assessment shall remain unpaid on 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 7th day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale. By order of the Board of Trustees. F. A. BREWER, Sec'y

22-4t Office, No. 40. Montgomery Block, San Francisco, Cal.

Potomac Gold and Silver Mining Company, Reese River District, Lander county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held May 23d, 1864, an assessment of one ($1) dollar per share was levied upon the Capital Stock of said Company, payable immediately, in United States Gold Coin, to the Secretary, at the office of the Company, or to F. A. Miller, Superintendent at Austin, N. T.

Any Stock upon which said assessment shall remain unpaid on the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 11th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale.

GEO. A. BALL, Sec'y.
22-4t Office, 509 Clay Street, San Francisco.

Keokuk Gold, Silver and Copper Mining Com- pany, Clayton Mining District, Contra Costa County, California,

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 26th day of May, 1864, an Assessment of Ten (10) cents per Share was levied upon the Capital Stock of said Company, payable immediately, in United States Gold Coin, to the Secretary, at the office of the Company, No. 322 Front street or to J. W. Cassiday, at the mine.

Any Stock upon which said Assessment shall remain unpaid on Saturday, the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 13th day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the Sale. By order of the Board of Trustees.

A. B. WINEGAR, Secretary.
22-4t Office, 322, Front street, San Francisco.

Mechanics Gold, Silver and Copper Mining Company Clayton Mining District, Contra Costa County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 26th day of May, 1864, an Assessment of five (5) cents per share was levied upon the capital stock of said Company, payable immediately, in United States Gold Coin, to the Secretary, at the office of the Company, or to J. W. Cassidy, Superintendent at the mine.

Any stock upon which said Assessment shall remain unpaid on Saturday the 25th day of June, 1864, will be advertised on that day as delinquent, and, unless payment shall be made before, will be sold on Wednesday, the 13th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

A. B. WINEGAR, Sec'y.
22-4t Office, No 322, Front Street, San Francisco.

Orinoco Gold & Silver Mining Company, Carroll Gold & Silver Mining Company, Brooklyn Gold & Silver Mining Company, Lapland Gold & Silver Mining Company, Victoria Gold & Silver Mining Company, Mohawk Gold & Silver Mining Company, Reese River District, Lander County, Nevada Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Companies, held on the 28th day of May, 1864, an Assessment of 50 cents per share was levied upon the capital stock of each of said Companies, payable on the 30th day of May, 1864, in U. S. gold coin, to the Secretary, or to Joshua Malloy, Superintendent at the mine.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 2d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 16th day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

WM. G. WENDELL, Secretary.
Office, 501 & 503, N. W. cor. Front and Washington sts., San Francisco. 23-4t

St. Clair Consolidated Mining Company, Smoky Valley District, R. R., N. T.

Notice is hereby given, that at a meeting of the Board of Trustee of said company, held on the 7th day of Juue, 1864, an assessment of $1 per share was levied upon the Capital Stock of said company, payable immediately, in U. S. Gold Coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 9th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 23d day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. AUG. KUNAST, Secretary.

24-4t Office, 540 Washington street, San Francisco.

Rhode Island Gold and Silver Mining Company, Keys Mining District, Mono county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of June, 1864, an assessment of twenty-five cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 30th day of July, 1864, to pay said delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

J. W. MYRICK, Secretary.

Office, No. 526 Montgomery street, over Blue Wing Saloou, San Francisco. 24-5t

Heidelberg Gold, Silver & Copper Mining Company, Tomales Pais District, Marin County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 9th day of June, 1864, an assessment, No. 6, of ten cents per share was levied upon the capital stock of said Company, payable immediately, in U. S. Gold Coin, to the Secretary at his office, or to the Superintendent, Mr. H. N. KERP.

Any stock upon which said assessment shall remain unpaid on SATURDAY, the 9th day of July, 1864, will be advertised on that day as delinquent and unless payment shall be made before, will be sold on the 23d day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

B. ROTHSCHILD, Secretary.

24-4t Office, 522 Montgomery street, San Francisco.

La Marronena Silver Mining Company.—Location of mine, Lower California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of June, 1864, an Assessment of five dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 9th day of July, 1864, will be advertised on that day as delinquent, and, unless payment shall be made before, will be sold on SATURDAY, the 23d day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

GEO. L. FAULKNER, Secretary.

San Francisco, June 10th, 1864. 24-5t

Winona Gold and Silver Mining Company, Moss Lode, San Francisco District, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of June, 1864, an Assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable on the 11th day of June, 1864, in United States gold and silver coin, to the Secretary, No. 11 Government House, City and County of San Francisco.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 9th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 27th day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale.

EDW. QUACKENBUSH, Secretary.

Office, No. 11, Government House, cor. Sansome and Washington streets. 24-4t

Bodie Consolidation Gold and Silver Mining Company, No. 2. Location of Mine, Bodie District, Mono county, California,

Notice is hereby given, that at a meeting of the Trustees of said Company, held on the 10th day of June, A. D., 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable in U. S. gold coin, on the 13th day of July, 1864, to the Secretary, at office, S. W. corner of Clay and Montgomery streets, San Francisco.

Any stock upon which said Assessment shall remain unpaid on the said 13th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 25th day of July to pay the delinquent Assessment, together with costs of advertising and expenses of sale.

24-5t A. L. CHAMBERLIN, Secretary.

Vivian Gold and Silver Mining Company, Blue Sulphur Springs District, Lyon county, N. T.

The second annual meeting of the Stockholders of the Vivian Gold & Silver Mining Company, for the election of Trustees for the ensuing year, will be held at the office of the Company, 728 Montgomery street, on Wednesday, July 6th, 1864, at 3 o'clock, P. M.

24-4t HENRY S. FITCH, Secretary.

LARGE TRAIN.—J. M. Davis, just from Washoe, states that he was detained at Slippery Ford just three hours, according to his watch, and during that time he counted 587 wagons passing that point full of freight for Virginia City.

White Mountain Consolidated Mining Company.—Location: White Mountain District, Mono county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of the above named Company, held on the 6th day of June, 1864, an Assessment of fifteen (15) cents per share was levied on each and every share of the capital stock of the Company, payable immediately, in U. S. gold coin, to the Secretary, at his office.

Any stock upon which the assessments shall remain unpaid on the 9th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold, on the 20th day of July, 1864, at 1 o'clock P. M., at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco. The costs of advertising and the expenses of the sale will be added to the delinquent assessments.

J. F. MILLER, Secretary.

Office, No. 416 Washington street.

San Francisco, June 10, 1864, 24-4t

Silver Creek Mining Company.--Location, Keys District, Mono county, California.

Notice is hereby given, that, at a regular meeting of the Board of Trustees of the above named Company, held on the 30th day of May, 1864, an assessment of fifty (50) cents per share was levied on each and every share of the capital stock of the Company, payable immediately, in U. S. gold coin, to the Secretary, at his office, or to the Superintendent, at the min

Any stock upon which the assessments shall remain unpaid on the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 13th day of July, 1864, at 1 o'clock P. M., at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. F. MILLER, Secretary.

Office, No. 416 Washington street.

San Francisco, June 10th, 1864, 24-4t

Aspinwall Gold and Silver Mining Company, Amador District, Lander County N. T.

Notice is hereby given that at a meeting of the Trustees of said Company, held on the 10th day of June, 1864, an assessment of fifty cents (50) per share was levied upon the Capital stock of said Company, payable immediately, in U. S. Gold Coin, to the Secretary, at the office of the Company, 429 Pine street, San Francisco, or to J. E. BOWE, at Amador City, N. T.

Any stock upon which said assessment shall remain unpaid on the 15th day of July, will be advertised as delinquent, and unless payment shall be made before, will be sold on the 3d day of August, A. D. 1864, to pay the said delinquent assessment, together with cost of advertising and expenses of sale.

24-4t JOSEPH HEALY, Secretary.

Porter Gold and Silver Mining Company, Jordan Hill, Butte county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 11th day of June, 1864, an Assessment of fifty cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, or to J. L. PORTER, Superintendent, Yankee Hill, Butte county.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on WEDNESDAY, the 3d day of August, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees,

THOS. C. McCALLAN, Secretary.

24-4t Office, No. 622 Clay street, San Francisco.

Southern Belle Gold and Silver Mining Company, Reese River District, Lander county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 9th day of June, 1864, an Assessment of twenty-five cents per share was levied upon the capital stock of said Company, payable on the 10th day of June, 1864, in United States gold coin, to the Secretary, or to R. T. HILL, Superintendent, at Austin, N. T.

Any stock upon which said assessment shall remain unpaid on Saturday, the 9th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 23d day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. W. F. HUGHES, Sec'y.

24-4t Office, No. 6 Mead House, San Francisco.

Phœnix Gold and Silver Mining Company, Reese River District, N. T.

NOTICE is hereby given, that on Thursday, July 14th, 1864, at 11 A. M. at the Office of the Company, No. 305 Montgomery Street, San Francisco, there will be sold to the highest bidder for cash, so many shares of the Capital Stock of the above named Co., standing to the credit of the following named persons, as will be necessary to pay all assessments now due, together with costs of advertising and expenses of the sale, unless the same shall have been previously paid, to wit;

Names.	No. Cert.	No. Shares	Amt.
Charles Hoffman,	16 85 201 202, 31		$15 50
Ignatz Kipp,	115 117 205	34	17 00
Chas Schmitt,	31 127	15	7 50
Joseph Fitzler,	23	10	5 00
H L Joaquinsou,	191	2½	1 25
Catherine Feagain,	103 104	15	7 50
F W May,	107	5	2 50
M Schwob,	130	15	7 50
D W Levan,	135	9	4 50
Charles White,	155	10	5 00
M Cook,	164	10	5 00
M Lyon,	168	5	2 50
G Bitmieb,	170	10	5 00
C Balles.	5 193 194 195,	132	66 00
George Melzger,		5	2 50
W A Smith,	35 137 185 186 187,	76	38 00
B A Sheldon,	51 52 53	25	12 50
A K P Smith,	112 113 114 121	31	15 50
A M Harkness,	156	10	5 00

By order of the Trustees, ROBT. T. POLK, Sec'y.

24—4t. Office, No. 305 Montgomery street, San Francisco.

Delta Gold and Silver Mining Company.

Saratoga Gold and Silver Mining Company, Amador District, Lander county, N. T.

At a meeting of the Trustees of the Delta Gold and Silver Mining Company, and the Saratoga Gold and Silver Mining Company, held March 28th, 1864, an Assessment of (50) fifty cents per share was duly levied on the Capital Stock of each of said Companies, payable immediately, in U. S. coin, to the Secretary, or to Wm. G. Blakely, at the mine. By order of the Board of Trustees.

WM. HOLLIS, Secretary.

24-4t No. 302 Montgomery street.

Mosquito Quartz Mining Company, Mosquito Gulch Calaverus County.

NOTICE.—There are delinquent upon the following described stock, on account of Assessment levied on the 10th day of May 1864, the several amounts set opposite the Names of the respective Shareholders, as follows :

Name	No. Cert.	No. Shares	Amt.
M Merfield,	70	2	$ 10 00
A Roseber,	110	1	5 00
Leppien,	115	1	5 00
Tervis,	134	1	5 00
L Peris,	135	5	25 00
T F Poole,	139	2	10 00
T Gilardin,	145	1	5 00
Haussman,	166	1	5 00
G Pardow,	104	5	25 00
G Pardow,	171	6	50 00
G Pardow,	173	10	50 00
P Thiebaut,	144	1	5 00
P Thiebaut,	149	1	5 00
E L Goold,	169	10	50 00
E L Goold,	170	10	50 00
R R Maurice,	176	11	55 00
R R Maurice,	179	8	40 00
R R Maurice,	1 0	9	45 00
R R Maurice,	181	10	50 00
R R Maurice,	182	9	45 00
R R Maurice,	183	10	50 00
R R Maurice,	184	10	50 00
R R Maurice,	185	10	50 00
R R Maurice,	186	45	225 00

And in accordance with law, and an order of the Board of Trustees, made on the 25th day of May 1864, so many Shares as may be necessary, will be Sold at the salesroom of Cobb and Sinton, No. 408 Montgomery street, on the 1st day of July 1864 at the hour of 11 o'clock A. M. of said day, to pay said delinquent Assessment thereon, together with costs of Advertising and expenses of Sale.

EM. FENARD, Secretary.

24-5t. Office, No. 433 Montgomery Street.

Morning Call Silver Mining Company, Wheeler and Rogers Ledge No. 2, Big Creek District, Lander county, Nevada Territory.

NOTICE.—There are delinquent upon the following described stock, on account of Assessment levied on the 11th day of May, 1864, the several amounts set opposite the names of the respective shareholders, as follows,

Names.	No. Certif.	No. Shares.	Amt.
Barnes, Geo E	not issued	80	$40 00
Butterbeld, Rufus	not issued	100	50 00
Chapman, Wm	not issued	100	50 00
Dale, Benj F	not issued	100	50 00
Fisher, A A	not issued	100	50 00
Forster, Peter B	not issued	100	50 00
Fowler, Geo H	not issued	100	50 00
*Gale & Howe	not issued	100	50 00
Jobson, Chas F	not issued	100	50 00
Leonard, E A	not issued	100	50 00
Moody, J C	not issued	165	82 50
Reed, Thomas J	not issued	30	15 00
*Richards, D M	not issued	50	25 00
Wilcox, B	not issued		
Wilcocks, B	not issued	100	50 00
Ward Jr, A H	not issued	100	50 00
Wade, Able	not issued	100	50 00

*Assigned, but not transferred.

And in accordance with law, and an order of the Board of Trustees, made on the 11th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on the 29th day of June, 1864, at the hour of 11 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

EDW. QUACKENBUSH, Secretary.

Office, No. 11 Government House, corner Sansome and Washington streets, San Francisco. 24-3t

Mt. Vernon Gold and Silver Mining Company, Smoky Valley Mining District, Lander Co., N. T.

NOTICE.-There are delinquent upon the following described stock, on account of assessment levied on the 7th day of May, 1864, the several amounts set opposite the names of the respective shareholders, as follows :

Names,	No. Cert.	No. Shares	Amt.
J W Taylor,	1	5	$ 2 50
J W Taylor,	2	5	2 50
J W Taylor,	4	10	5 00
J W Taylor,	16	50	25 00
J W Taylor,	17	50	25 00
J W Taylor,	18	5	2 50
J W Taylor,	19	5	2 50
J W Taylor,	20	10	5 00
J W Taylor,	21	10	5 00
J W Taylor,	22	40	20 00
J W Burnham,	23	10	5 00
J W Burnham,	24	10	5 00
J W Burnham,	25	10	5 00
J W Burnham,	26	20	10 00
J W Burnham,	27	50	25 00
J W Burnham,	31	100	50 00
Jas M Allen,	28	10	5 00
Jas M Allen,	29	90	45 00
Winnie E Fallon,	30	10	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 7th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at public Auction, at the Office of the Secretary, on the 25th day of June, 1864, at the hour of 11 o'clock, A. M., of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

WM. H. DUDLEY, Secretary.

Office, No. 528 Montgomery Street, San Francisco.

24-4t.

Dexter Tunnel and Mining Company.—Location, Reese River, Nevada Territory.

NOTICE.—There is delinquent upon the following described stock, on account of an Assessment (No. 2) levied on the 1st day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shs.	Amt.
Betz, H	102, 103, 104, 105, 106, 107, 108, 109, 110, 111 —10 shs ea	100	50 00
Bell, G H	186	25	12 50
Bell, G H	186, 187—20 shs ea	40	20 00
Dexter, C H	72, 73, 74, 75, 76, 77, 78, 79, 80, 81 —10 shs ea	100	50 00
Ebert, Geo.	179, 180, 181, 182, 183—10 shs ea	50	25 00
Foltz, G	162, 163, 164, 165, 166—0 shs ea	50	25 00
Grubler, J	6	50	25 00
Grubler, J	8	10	5 00
Grubler, J	9	5	2 50
Gerhardt, C	132, 133, 134, 135, 136, 137, 138, 140, 141 —10 shs ea	90	45 00
Gunther, J B	177	10	5 00
Henneman, A	167, 168, 169, 170, 171 —10 shs ea	50	25 00
Kapus, Otto	172, 173, 174, 175, 176 —10 shs ea	50	25 00
Kressel, J	152, 153, 154, 155, 156—10 shs ea	50	25 00
Leisse, H	127, 128, 129, 130, 131—10 shs ea	50	25 00
Lewis, Oscar	189, 190, 191, 192, 193, 194, 195, 196, 197, 198—10 shs ea	100	50 00
Lambert, R	157, 158, 159, 160, 161 —10 shs ea	50	25 00
Morrison, J C Jr	27—not issued	65	32 50
McNulty, C A	28, 29, 30, 32, 33—10 shs ea	50	25 00
McNulty, C A	59	5	2 50
Marshall, H	34	5	2 50
Maguire, Thomas	60	100	50 00
Master, F A	147, 148, 149, 150, 151—10 shs ea	50	25 00
Needen, Wm	178	10	5 00
Orear, D	62, 63, 64, 65, 66, 67, 68, 69, 70, 71 —10 shs ea	100	50 00
Ohmert, F W	112, 113, 114, 115, 116, 117, 118, 119, 120 —10 shs ea	90	45 00
Ploschko, Wm	92, 93, 94, 95, 96, 97, 98, 99, 100, 101 —10 shs ea	100	50 00
Stevens, W H	53	10	5 00
Stevens, W H	54	13	6 50
Shmidt, H	58	5	2 50
Schmidt, H G C	82, 83, 84, 85, 86, 87, 89, 90, 91 —10 shs ea	90	45 00
Schmittburg, H	142, 143, 144 145, 146 —10 shs ea	50	25 00
Shafer, L	184	10	5 00
Uhrig, C A	16	25	12 50
Uhrig, C A	17	35	17 50
Uhrig, C A	18	5	2 50
Wolleb, E	41	5	2 50
Wolleb, E	42, 43, 44, 45, 46, 47—10 shs ea	60	30 00

And in accordance with law, and an order of the Board of Trustees, made on the 1st day of April, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of John Middleton & Son, No. 400 Montgomery street, San Francisco, on the 11th day of July, 1864, at the hour of 12 o'clock M. of said day, to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

C. H. HORTON, Secretary.

Office, No. 543 Clay street, Golden Era Building, San Francisco. 24-4t

Moscow Gold and Silver Mining Company, Esmeralda District, Nevada Territory.

NOTICE.—A sufficient number of shares of the capital stock of the Moscow Gold and Silver Mining Company, standing on the books of the Company in the names of the following persons, will be sold, at Public Auction, at the salesroom of L. Keller & Co., No. 631 Market street, San Francisco, on FRIDAY, the 15th day of July, 1864, at 11 o'clock A. M., as may be necessary to pay assessments now due by said parties, together with expenses of advertising and sale, if not paid to the Secretary, at his office, previous to sale:

Names.	No. of Certificates.	No. of Assessments. 1 2 3 4	No. Shares.	Amt due.
J F O'Sullivan	20—not iss'd		20	$40 00
John Ooms	39, 40, 41, 42	3 4	100	100 00
B Dexter	35	3 4	75	75 00
A Faulk	not issued	3 4	4	4 00
J F Moulton	44	3 4	25	25 00
G H Hill	1 and 2	4	110	55 50
J A Deyo	50, 51, 52, 53, 54	4	115	57 50
T Bullen	34	4	15	7 50
Wm Jones	35	4	10	5 00
R Smivers	37	4	25	12 50
J C McDonald	45	4	15	7 50
J G Thompson	46	4	10	5 00

By order of the Board of Trustees.

GEORGE STURTEVANT, Secretary.

(24-4t) Office, No. 608 Montgomery street, San Francisco.

Bay State Gold and Silver Mining Company, Turnbuck District, Tuolumne county, California.

Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Bay State Gold and Silver Mining Company, there will be sold, at Public Auction, to the highest bidder, for cash, in U. S. gold coin, on the 11th day of July, 1864, at 11 o'clock A. M., at the salesroom of L. Keller, No. 537 California street, San Francisco, so many shares of the capital stock of the Company, standing in the names of the following persons, or shareholders, as will be necessary for the payment of Assessment No. 4, of two dollars per share, duly levied thereon March 23d, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said Assessment and accruing charges are previously paid:

Names.	No. Certificates.	No. Shares.	Amt.
John Sedgwick	2, 3, 4—ea 50	150	$300
John Sedgwick	5, 7, 8, 9, 10—ea 20	100	200
John Sedgwick	11, 12, 13, 14, 15—ea 10	50	100
Benj Wilson	22	100	200
Benj Wilson	23	200	400
Benj Wilson	24	20	40
W B Farwell	38	400	bal 700
Philip Myers	48, 52, 53, 54, 55—ea 20	100	200
Philip Myers	57	5	10
Philip Myers	58	15	30
W H Finch	29, 30, 31—ea 100	300	600
W H Finch	32	50	100
W H Finch	33, 34, 35, 36, 37—ea 10	50	bal 50
Jas G Read	1	10	20
Jas G Read	49	25	50
S E Holcomb	16	120	240
S D Jones	25	200	400
S D Jones	43	30	60
S D Jones	44, 45, 46—ea 20	60	120
S D Jones	47	10	20
Geo Weetman	19	20	40
L H Lincoln	20	10	20
Wheeler Martin	41	75	150
Wheeler Martin	26	100	200
Geo W Rose	40	75	bal 100
C H Clark	42	150	300
F H Robinson	59	100	bal 50

By order of the Board of Trustees.

J. F. HARRIS, Secretary.

☞ Office, southeast corner Second and Howard streets, San Francisco, June 8th, 1864. 24-4t

Union Tunneling Company, Santa Clara, Humboldt County, Nevada Territory.

Notice is hereby given, that in accordance with the laws of Nevada Territory, the by-laws of the Company, and an order duly made, by the Board of Trustees of the above named company, there will be sold at Public Auction, in front of the Company's Office in Santa Clara, on Saturday, July 16th, A. D. 1864, at three o'clock, P. M., so many shares of the Capital Stock of said company, standing in the names of the following shareholders, as will be necessary to pay assessments Nos. 2 and 3 now due thereon, together with costs of advertising and other expenses of sale, unless the same shall have been previously paid.

Names.	No. Cert.	No. Shs.	Amount
Joseph A Benoit	32	10	$10
Geo S Burbage	102	6	3
Geo G Berry	134	10	10
Geo G Berry	135	10	10
Geo G Berry	136	5	5
Geo G Berry	137	5	5
G L Crane	34	10	10
Wm P Denckla	21	10	10
Julia E Denckla	22	10	10
L C Dodge	77	30	30
John Downey	84	5	5
M G Elmore	125	10	10
Warner Earl	160	5	2 50
H T Fairbanks	78	10	10
H A Fox	81	50	50
A C Gay	59	5	5
W E Gilaspie	not issued	50	55
E P Green	not issued	30	33
Silas Gill	70	10	10
W H Hoburg	5	10	10
W R Harrison	35	15	15
W R Harrison	40	15	15
W R Harrison	42	20	20
W R Harrison	44	20	20
Geo W Harrison	47	25	25
Geo W Harrison	60	5	5
S N Harrison	48	20	20
M W Haviland	75	12	12
M W Haviland	180	111	73
R N Holf	82	10	10
J A Hollister	122	25	25
J A Hollister	124	15	15
O L Johnson	40	25	25
G C Jones	62	10	10
Edward L Levy	14	25	25
Mary Lee	61	5	5
Trescott Lizenby	100	10	10
L H D Lange	130	5	2 50
L H D Lange	174	5	5
M Meador	not issued	15	16 50
G E Morgan	20	10	10
R M McBeth	27	15	15
Robt McBeth	30	10	10
Robt McBeth	169	9	0
Miller & Kingsley	157	20	20
M H Myrick	161	5	2 50
John H Neale	51	10	10
John H Neale	158	10	10
O B O'Bunon	1	25	25
W D Powell	12	10	10
David Porter	38	50	50
S H Pierce	19	10	10
Allen Peacock	176	10	5
H B Ray	15	5	5
H B Ray	111	10	10
Charlott C Robinson	114	62	62
Phelps Reed	162	10	5
R H Scott	90	25	25
A J Simmons	146	5	5
A J Simmons	147	5	5
E Volpillac	143	20	20
M T Woody	80	10	10
John Waugman	162	10	10
Thos D Williams	113	62	62
Wall & Hawley	154	10	10
Wall & Hawley	152	10	10
Wall & Hawley	155	5	5

N. B.—Payment of the above can be made to H. H. Woon, at No. 627 Clay street, San Francisco, until the 9th day of July, 1864, or at the office of the Company, in Santa Clara until the day of Sale. J. J. KELLOGG, Secretary.

Santa Clara, June 1st, 1864. 24-4t

Constitution Gold and Silver Mining Company, Lander county, N. T. Office, No. 20, Exchange Building, cor. Washington and Montgomery streets, San Francisco, Cal., June 11th, 1864.

Notice is hereby given, that in accordance with the laws of the State of California, there will be sold at public auction, at the salesroom of Jerome Rice & Co., 327 Montgomery street, San Francisco, on WEDNESDAY, July 13th, 1864, at 11 o'clock A. M., of that day, to the highest bidder, for cash, in U. S. gold coin, so many shares of the Capital Stock of the Constitution Gold and Silver Mining Company standing in the names of the following shareholders as will be necessary for the payment of the Assessments due thereon, together with the expenses of advertisement and sale, unless said Assessments with accruing charges are previously paid, to wit:

Names.	No. Assts.	No. Shares.	Amt.
John Murphy	1 2 3	77	$79 00
Geo Cattermole	1 2 3	246	244 50
Jas S Whitton	1 2 3	164	163 00
W R Barnes	1 2 3	164	163 00
Wm Rose	1 2 3	246	244 50
John A Veatch	1 2 3	82	81 50
H A Wall	1 2 3	82	81 50
E S Davis	1 2 3	41	40 75
O A Palmer	3	102	51 75
E P Peckham	3	77	38 50
J S Kennedy	3	82	41 00
Lyman Beecher	3	35	15 00
J B Crockett	3	82	41 00
P C Lander	3	82	41 00
Julius Schultz	3	3	1 50
H S Waldron	3	10	5 00

By order of the Board of Trustees.

24-4t JOS. C. FORD, Secretary.

Postponements and Alterations.—Secretaries are requested to give notice of postponements, or alterations which they may desire made in their advertisements, at their earliest convenience. New advertisements should be sent in as early as possible.

Our Circulation.—THE MINING AND SCIENTIFIC PRESS has a large and permanent subscription list, and enjoys a more universal circulation among stockholders and persons directly interested in mining than any other paper on this coast.

Seely Gold and Silver Mining Company, Big Creek District, Lander county, N. T.

Notice is hereby given that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of said Company, there will be sold at public auction to the highest bidder for cash, in U. S. Gold Coin, at the office of the Company, No. 1 & 2 Government House, corner of Washington & Sansome streets, San Francisco, on Monday, July 18th, 1864, at 11 o'clock, A. M, so many shares of the Capital stock of said Company standing in the names of the following named shareholders as will be necessary for the payment of Assessment No 2, for 25 cts. per share levied Oct. 1st, 1863. Assessment No. 3 for 25 cents per share, levied Nov. 21st, 1863. Assessment No. 4, for 50 cents per share, levied Feb. 9th, 1864, together with expenses of advertising and all other expenses of sale.

Names.	No. of Shares.	Ass't. 2 of 25c.	Ass't. 3 of 25c.	Ass't 4 of 50
Anderson, J M	5	—	—	$2
Calhoun, A	87½	—	—	43
Capron, John S	25	$6 25	$6 25	12
Conlee, G M	10	—	—	5 0
Dwarakowsky, Count	41½	—	10 87	21 75
Gray, John	25	6 25	6 25	12 50
Greely, O F	10	—	—	5 00
Greely, S	5	—	—	2 50
Hulburd, H S	20	—	—	10 00
Hall, J J	100	—	—	50 00
Parker E	120	—	2 50	60 00
Perkins, J L	40	—	—	20 00
Rogers, Wm H	110	(not issued)	—	55 00
Seely, G F	00	22 50	22 50	45 00
Squires, Ogden	170	42 50	42 50	85 00
Turner, Geo R	44	11 00	11 00	22 00
Uhrig, C A	15	3 75	3 75	7 50
Veatch, Dr J A	80	20 00	20 00	40 00
Wells, Cyrus	25	—	6 25	12 5

25-4t. HENRY S. BROOKS, Secretary.

Olympic Gold and Silver Mining Company, Big Creek District, Lander county, N. T.

Notice is hereby given that in accordance with the laws of the state of California, and an order duly made by the Board of Trustees of said company, there will be sold at public auction, to the highest bidder for cash, in U. S. Gold coin, at the office of the company, No, 1 & 2 Government House, corner of Washington and Sansome streets, San Francisco, on Monday, July 18th, 1864, at 11 o'clock, A. M., so many shares of the capital stock of said company standing in the names of the following named shareholders as will be necessary for the payment of assessment No. 2, for ten cents per share levied July 25th, 1863. Assessment No. 3, for 20 cents per share, levied Sept. 21st, 1863. Assessment No. 4, for 50 cents per share, levied Nov. 19th, 1863, together with expenses of advertising and all other expenses of sale.

Names.	No. of Shares.	Ass't. No. 2 of 10c	Ass't. No. 3 of 20c	Ass't No. 4 of 50c
Anderson, W N	20	$—	$—	$10 00
Baker, H W	5	—	—	2 50
Greely, O F	25	—	3 00	—
Gray, John	25	—	—	8 00
Pinkham, J F	10	—	2 00	—
Rogers, W H	100	3 50	—	10 00
Sherwood, Benj	10	—	2 00	—
Uhrig, C A	36	—	—	18 00
Vosburg, J N	10	—	—	5 00
Wells, Cyrus	25	—	—	12 50

25-4t M. A. WHEELER, Secretary.

Ophir of the Colorodo, No. 1, Gold and Silver Mining Co. Location of claim El Dorado Canon, Territory of Arizona.

NOTICE.—There is delinquent upon the following described stock, on account of assessment levied May 7th, A. D. 1864, of fifteen (15) cts. per share on each and every share of the Capital Stock of said Company, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Cert.	No. Shares.	Amt.
Sheldon Littlefield,	7	10	$4 15
Sheldon Littlefield,	10	20	3 00
Sheldon Littlefield,	12	5	1 50
Sheldon Littlefield,	68	20	3 00
Sheldon Littlefield,	69	20	3 00
Sheldon Littlefield,	73	30	4 50
Sheldon Littlefield,	74	30	4 50
Sheldon Littlefield,	99	10	1 50
B F M Packard,	16	10	1 60
B F M Packard,	17	10	1 60
B F M Packard,	18	10	1 60
B F M Packard,	19	10	1 60
B F M Packard,	20	10	1 60
B F M Packark,	22	25	3 75
B F M Packard,	23	2	3 75
B F M Packard,	24	25	3 75
B F M Packard,	26	20	3 00
B F M Packard,	27	20	3 00
B F M Packard,	28	20	3 00
B F M Packard,	30	20	3 00
B F M Packard,	31	20	3 00
B F M Packard,	32	20	3 00
B F M Packard,	33	10	1 50
B F M Packard,	34	10	1 50
B F M Packard,	35	10	1 50
B F M Packard,	36	10	1 50
B F M Packard,	37	10	1 50
B P M Packard,	38	10	1 50
B F M Packard,	91	17½	1 75
M Parker,	40	20	3 00
M Parker,	94	17½	2 62
A Goldthwaite,	76	50	7 50
A Goldthwaite,	77	50	7 50
A Goldthwaite,	79	50	7 50
A Goldthwaite,	80	50	7 50
A Goldthwaite,	81	50	7 50
A Goldthwaite,	82	50	7 50
A Goldthwaite,	83	30	4 50
M V B Stacy,	106	10	1 50
E W Clark,	87	20	3 00

And in accordance with the laws of the State of California and the By-Laws of the Company, so many shares of each parcel of said stock as may be necessary, will be sold at the Office of the Company, No. 410 Montgomery Street, on Thursday the 25th day of June, A. D. 1864, at 12 o'clock M., to pay said delinquent assessment thereon, together with the cost of advertising and expenses of the sale. By order of the Board of Trustees.

24-2t RODNEY CLARK, Secretary.

WM. DENNIS, a farmer of Calaveras county, raised last year 125 tons of beans, and this year 40 tons.

Business Cards.

T. C. SANBORN & CO.
Stock Brokers,
No. 630, Montgomery Street,.....San Francisco.

OPHIR SILVER MININO STOCK,
GOULD & CURRY MINING STOCK,
CHOLLAR MINING STOCK,
CALIFORNIA STEAM NAVIGATION COMPANY'S STOCK,
☞ BOUGHT AND SOLD. ☜
jltf.

COMMISSIONER OF DEEDS
For Arizona Territory,
B. W. MUDGE,
16v8-3m No. 528 Clay street, San Francisco.

C. A. CRANE. A. E. CRANE.
CRANE BROS.,
Stock and Exchange Brokers,
No. 614 Montgomery st., Stall No. 6, Stock Exchange, San Francisco.
☞All kinds of Stocks Bought and Sold on Commission. I4

W. O. ANDREWS,
NOTARY PUBLIC,
—AND—
Commissioner of Deeds for Nevada Territory.
Office, Montgomery Block, 630 Montgomery Street,
I0v8-2m SAN FRANCISCO.

H. C. KIBBE,
Mining Secretary,
Commissioner for Nevada Territory,
22 Lyceum building, cor. Washington and Montgomery sts.,
I0v8-tf SAN FRANCISCO.

WM. S. LYON & CO.,
Stock and Exchange Brokers,
308 Montgomery Street, corner of Pine,
SAN FRANCISCO.
QUARTERMASTER'S WARRANTS BOUGHT. THE HIGHEST Price paid for Legal Tender Notes. Open till 9 P. M. 1-3m

REMOVAL.
J. R. BEARD, STOCK BROKER,
MEMBER SAN FRANCISCO STOCK AND EXCHANGE BOARD,
HAS REMOVED HIS OFFICE TO
5v8-tf No. 707 Montgomery street, Brokers Block.

W. P. DENCKLA. A. L. CHAMBERLIN.
DENCKLA & CHAMBERLIN,
Stock and Exchange Brokers,
S. W. corner of Clay and Montgomery streets,
SAN FRANCISCO.
☞ Deeds, etc., for record in Humboldt County, Nevada Territory, received and forwarded. I-tf

OTIS V. SAWYER,
NOTARY PUBLIC,
And Commissioner for Nevada Territory.
Office, 608 Montgomery street, San Francisco.
Having resigned my Notarial Commission, I solicit for my late partner, OTIS V. SAWYER, from the community, and particularly from my individual friends, their patronage in all things that require the services of a Notary Public.
23 4t W. W. WIGGINS.

MUTUAL
Life Insurance Company,
—OF NEW YORK—
Capital, : : : : : : : : : $9,750,000.
H. S. HOMANS, Agent for California.

H. S. HOMANS,
NOTARY PUBLIC,
And Commissioner of Deeds for Nevada Territory,
MINING SECRETARY, CONVEYANCER, ETC.,
Northeast corner of Montgomery and Merchant Streets.

THOS. DAVENPORT. W. S. SMITH
DAVENPORT & SMITH,
Mining and General Accountants,
SCRIVENERS, CONVEYANCERS, ETC.
Office, No. 14 Government Block, N. W. corner of Sansome and Washington streets, San Francisco.
REFER BY PERMISSION TO
Donohoe, Ralston & Co, Bankers. | J. C. Sanborn & Co., Brokers.
Sather & Co., Bankers. | Ross, Dempster & Co., Merchants.
John Parrott, Esq., Banker. | Dibblee, Hyde & Co., Merchants.
James J. Robbins, Esq., Broker. | Dickson, DeWolf & Co., Merchants

REMOVAL.
THE OFFICE OF DEETKEN & CO'S METALLURGICAL WORKS HAVE BEEN REMOVED FROM 605 to 315 MONTGOMERY ST., SAN FRANCISCO.
16 A. MARCUS, Secretary.

Owen's River Canal Company.
FOR SALE, FOR ACCOUNT OF THE COMPANY, 7,000 SHARES of the above stock, at $1 per share. It is confidently presented to the public as the best investment, for the price, now offered this market.
Office of the Company No. 328 Montgomery street. 1tf

W. R. MAURICE,
Stock Broker, Real Estate Agent
And Mining Secretary.
Office, No. 708 Montgomery Street, San Francisco. Reference—Messrs, PARROTT & Co., Bankers. 8v8.tf

THOMAS HILL,
Member of the S. F. Stock and Exchange (1st) Board.
A. H. MURDOCK,
Member of Stock Exchange,
No. 623 Montgomery Street. Opposite Montgomery Block,
SAN FRANCISCO.

Palmer's Patent
ARTIFICIAL LEG,
Manufactured in Philadelphia, Pa.
JARVIS JEWETT, AGENT.
629 Washington Street, San Francisco, Cal. I0v8-1m

A. C. MORSE,
Mining and Real Estate Agent,
Office, S. W. corner Pine and Silver Sts., Aurora.
HAVING MADE ARRANGEMENTS WITH MINER S. MARTIN, Esq., one of the principal Stock Brokers of San Francisco. I am prepared to BUY and SELL every description of Mining Stocks in Esmeralda District. tf

ARMES & DALLAM,
IMPORTERS AND JOBBERS OF
WOOD AND WILLOW WARE,
Brushes, Twine, Cordage, Etc.,
And Manufacturers of California Pails, Tubs, Brooms, Etc.,
217 and 219 Sacramento St., between Front and Davis,
2-tf SAN FRANCISCO.

NATHANIEL GRAY,
General Furnishing Undertaker,
641 Sacramento St., corner of Webb, San Francisco. I

PHILLIPS & CO.,
(Successors to W. H. Baxter & Co.)
—MANUFACTURERS AND IMPORTERS OF—
HARNESS AND SADDLES,
BRIDLES, WHIPS, COLLARS, SADDLERY WARE, Etc.,
407 Battery St., between Clay and Merchant, San Francisco.
N. B.—All kinds of Work made to order and Warranted. Jobbing done with neatness and dispatch, and on the most reasonable terms.
2-tf

EDWARD BOSQUI & CO.,
617 Clay Street, San Francisco,
Book-Binders, Paper-Rulers,
And Blank Book Manufactnrers.
Blanks of all kinds printed and ruled to any desired pattern. 12-tf

GEO. B. HITCHCOCK & CO.,
Counting-House Stationers,
HAVE ALWAYS IN STORE A WELL-SELECTED STOCK OF
American and Foreign Stationery.
Blank Books of all kinds, manufactured to any desired pattern, and at the shortest notice. Mining Companies supplied in the best manner, and at reasonable rates.
GEO. B. HITCHCOCK & CO.,
2-1m 413 and 415 Sansome St., cor. Commercial, S. F.

C. BEACH,
—IMPORTER AND DEALER IN—
Juvenile and School Books, Stationery,
Kustel's California Gold and Silver Processes of Extraction, Etc., Etc.
No. 34 Montgomery street (opposite the Lick House),
4v8-3m SAN FRANCISCO.

D. NORCROSS,
MILITARY GOODS OF ALL DESCRIPTIONS. NAVY TRIMMINGS AND EMBROIDERIES. REGALIA FOR ALL ORDERS.
aug17-tf Masonic Temple, No. 6, Post Street.

BUSWELL & CO.,
Book-Binders, Paper-Rulers,
And Blank-Book Manufactnrers.
No. 509 Clay street and 508 Commercial street, between Montgomery
4v8-tf and Sansome, San Francisco.

Coal Creek Coal Mining Company.
Located near Geyserville, Sonoma County, California, containing 320 acres.
CAPITAL STOCK,.....$120,000
600 Shares.....$200 Per Share.
Office of the Company, Room, 18 Phœnix Building, corner of Sansome and Jackson streets, San Francisco.
A. P. McCARTY.....President.
D. S. CUTTER,.....Secretary & Treasurer.
TRUSTEES:
JOHN J. HUCKS,.....San Francisco.
OEO. H. BAKER.....San Francisco.
P. T. ARCHAMBOU,.....Geyserville.
19-3m

The Daily Evening Express, at Victoria, Vancouver Island is published by Messrs Wallace, Allen & Hardynge. Terms of subscription: One year, by mail, $10; six months, $6. It contains the late, Mining, Commercial, and General News, up to the hour of going to press. Being the ONLY EVENING PAPER published in Victoria, and having a circulation equal to any other Journal in the Colony, it will be found an excellent medium to enable advertisers to bring their notices before the Public. W. H. TOBEY,
Agent, Government House, San Francisco. 15-tf

L. B. FINE. JAMES A. OWENS.
OWENS & FINE,
Mining Secretaries, Real Estate and
General Agents,
WILL ATTEND TO DRAWING MINING STOCKS, PAYING ASSESSMENTS, BUYING AND SELLING STOCK LOCATED
IN ALPINE COUNTY.
OFFICE.—Mammoth Hotel, Main Street, between Second and Third, Silver Mountain. 20-3m

W. E. ROBINSON. J. R. MEGARRIGLE.
ROBINSON & CO.,
BROKERS,
Conveyancers and Mining Agents,
536 Washington Street, between Montgomery & Sansome,
No. 7 & 8 third floor, San Francisco. 20-1m

RICHARD S. CLARK,
MINING SECRETARY,
Accountant and Copyist.
Office, No. 610 Merchant street.
N. B.—Mr. Clark has also a commodious room, to rent for annual and Special Meetings of Companies at any hour of the day or evening. 19-3m

H. S. Sanders & Co.,
Stock Brokers,
Members of the Stock & Exchange (1st) Board and of the Pacific Board of Brokers.
No. 546 Washington street, San Francisco. 12-m

HENRY SCHMIEDELL,
(Member of the San Francisco Stock and Exchange Board,)
Stock Broker & Real Estate Agent,
Office, 705 Montgomery Street, San Francisco. 18-m

WARRIN, SMITH & CO.,
Commission Merchants,
—ALSO—
REAL ESTATE, STOCK AND EXCHANGE BROKERS,
Members of the San Francisco Board of Brokers Members of the Pacific Board of Brokers.
No. 618 Merchant Street, (above Montgomery) San Francisco.
☞ MONEY TO LOAN IN SUMS TO SUIT. ☜ 18-tf

GEORGE H. BAKER,
Lithographer & Engraver,
No. 522 Montgomery Street, San Francisco.
MINING STOCK CERTIFICATES LITHOGRAPHED IN THE MOST ARTISTIC STYLE. CALL AND EXAMINE SPECIMENS.
I0v8-tf

DESKS AND OFFICE FURNITURE OF ALL
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JOHN WIGMORE,
No. 423 California St., San Francisco
OFFICE JOBBING, of all kinds, promptly attended to.
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No. 422 California street, corner of Leidsdorff.
Drawings of MODELS made for parties applying for patents at Washington or London. mar23-tf.

JOHN DANIEL,
(SUCCESSOR TO O. GORI)
MARBLE WORKS,
No. 408 Pine street, bet. Montgomery and Kearny, San Francisco.
Mantels, Monuments, Tombs, Plumbers' Slabs, Etc.,
On hand and Manufactured to order.
☞ Goods shipped to all parts of the State. Orders respectfully solicited. 5v8-3m

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Steam and Mechanical Engineer. Designs furnished, and Drawings made for Engines, Mills, Water Wheels, Mining Machinery, etc., etc. Agent for McKenzie's Patent Cppola and Blower.
At the Golden State Iron Works,
First Street, San Francisco.
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THEODORE KALLENBERG,
Maker of Models for Inventors.
MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.
No. 418 Market street, San Francisco. n7-tf

Evening Instructions in Anylitical
Chemistry and Assaying,
Conducted by Thomas Price.
(Agent for the Swansea Ore Importers in California.)
HAVING FITTED UP A LABORATORY ESPECIALLY FOR INstruction in Analysis and Assays, the subscriber begs leave to announce that
A NEW CLASS WILL BE FORMED
On the 1st of June. For terms apply at the Laboratory, on the evenings of Tuesday and Saturday at 7 o'clock; or at the office of the "Pacific Mineral Company," Odd Fellow's Hall, Montgomery street. THOMAS PRICE.
San Francisco, May 10th, 1864. 20

New this Week.

Forest Queen Gold and Silver Mining Company, Great Mogul District, Amador County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 13th day of June, 1864, an assessment of fifty (50) cents per share was levied upon the Capital stock of said Company, payable immediately in United States Gold Coin, to the Secretary, or to Mr. A. Lukin, Gold Hill, N. T.

Any stock upon which said assessment shall remain unpaid on SATURDAY, the 16th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 1st day of August, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. R. N. VAN. BRUNT, Secretary

Office, No. 706 Montgomery Street, San Francisco. 25-4t

Grosch Consolidated Gold and Silver Mining Company, Storey county. N. T.

Notice is hereby given, that, at a meeting of the Board of Trustees of said Company, held on the 11th day of, June, 1864, an assessment of 20 cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on WEDNESDAY, the 3d day of August, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

CHAS. H. RYDER, Secretary.

Office, No. 4, Court Block, Clay street, San Francisco. 25-4t

Good Return Consolidated Gold and Silver Mining Company, Inyo District, Tulare County Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 14th day of June, 1864, an Assessment, of one dollar per share was levied upon the Capital Stock of said Company, payable on the 15th day of June, 1864, in United States gold coin, to the Secretary, at the office of the Company, 723 Montgomery street, San Francisco.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 16th day of July, 1861, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 30th day of July, 1864, to pay the delinquent Assessment, together with the costs of Advertising and expenses of the sale. By order of the Board of Trustees.

N. O. FRENCH, Secretary.

25-4t Office, 723 Montgomery Street, San Francisco.

La Candelaria Mining Company, San Dimas, State of Durango, Mexico.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 13th day of June, 1864, an Assessment of Five Dollars per share was levied upon the assessable stock of said Company, payable immediately in United States Gold Coin, to the Secretary, at the office of the company, No. 623, Montgomery Street, San Francisco, California.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 16th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 5th day of August, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of Sale. By order of the Board of Trustees. GEORGE A. HILL, Secretary.

Office, No. 623, Montgomery Street, San Francisco California. 25-4t

John J. Crittenden Gold and Silver Mining Company, Reese River District, Lander county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 14th day of June, 1864, an assessment of Twenty-five cents per share was levied upon the Capital stock of said Company, payable immediately, in United States gold Coin, to the Secretary, or to S. F. AMBLER, at Austin, N. T.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of July, 1861, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 3d day of August, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

D. B. FRANCIS, Secretary.

25-4t Office, 509 Clay street, San Francisco.

Ophir of the Colorado Silver Mining Company, El Dorado Canon, Arizona Territory.

NOTICE.—There are delinquent upon the following described stock, on account of Assessment No. 2, of two dollars per share, levied May 16th, 1864. the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certifs.	No. Shares.	Amt.
B F M Packard.....cert not issued		100	$200
R P Wilson.....	23	10	20
Hough & Baker	31	5	10
Stephen E Gillis.....	19	10	20
Geo R Parburt.....	48	10	20
E S Lathrop.....	50	5	10
Isaac Davis.....	69	5	10
M M Johnson.....101		10	20
Samuel L Theller.....	91	20	41
M V B Stacey.....		5	10

And in accordance with law, and an order of the Board of Trustees, made on the 16th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at Public Auction, at the office of the Company, No. 528 Clay street, San Francisco, Cal., on SATURDAY, July 2d, 1864, at one o'clock P. M., payable in U. S. gold coin, to pay said delinquent assessments, together with cost of advertising and expenses of the sale.

THEO. A. MUDGE, Secretary.

25-5t Office, No. 528 Clay street, San Francisco.

Gobernadora Silver Mining Company, San Antonio District, Lower California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 13th day of June, 1864, an Assessment of 70 cents per share was levied upon the Capital Stock of said Company, payable on the 18th day of June, 1864, in United States gold coin to the Secretary, at the office of the Company.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 16th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 1st day of August, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

C. W. HAYDEN, Secretary.

25-4t Office, No. 625 Clay Street, San Francisco.

Copp Gold and Silver Mining Company, Sierra District, Humboldt county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 11th day of June, 1864, an assessment of one dollar per share was levied upon the Capital Stock of said company, payable on the 13th day of June, 1864, in United States Gold Coin, to the Secretary, or to Henry Copp, Dan Glen, Humboldt, N. T.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of July, 1864. will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 30th day of July, 1864. to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. E. X. FIELD, Sec'y.

25-1t Office, 509 Clay st., Room, No. 1, San Francisco, Cal.

Egery Mining Company, Inyo District, Tulare County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 13th day of June, 1864, an Assessment of ten cents per share was levied upon the Capital Stock of said Company, payable on the 15th day of June, 1864, in U. S. gold coin, to the Secretary, at the office of the Company, 723 Montgomery Street, San Francisco.

Any stock upon which said Assessment shall remain unpaid on the 16th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 30th day of July, 1864, to pay the delinquent Assessment, together with the costs of Advertising and expenses of sale. By order of the Board of Trustees. N. G. FRENCH, Secretary.

25-4t Office, 723 Montgomery street, San Francisco.

Astor Ledge and Company, Big Creek District, Lander county, Nevada Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 11th day of May, 1864, an Assessment of fifty cents per share was levied upon the capital stock of said Company, payable immediately, to the Secretary, at No. 3, Armory Hall, 3d floor, corner of Montgomery and Sacramento streets, San Francisco.

Any stock upon which said assessment shall remain unpaid on the 23d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 4th day of August, 1864, to pay the delinquent assessments, together with costs of advertising and expenses of the sale.

S. PURDY, Secretary.

Office, Armory Hall, corner Montgomery and California streets, San Francisco. 25-4t

Fortune Mining Company, Mineral Springs District, Calaveras County, California.

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 18th day of June, 1864, an assessment of twenty-five cents per share was levied upon the capital stock of said company, payable immediately in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 23d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 3d day of August, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees. THOS. C. McCALLAN, Secretary.

Office, 622 Clay Street, San Francisco. 25-4t

Steamboat Silver Mining Company, Star District, Humboldt Co., Nevada Territory.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 28th day of May, 1864, an assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable immediately, in United States Gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on SATURDAY, the 16th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on TUESDAY, the 2d day of August, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

S. O. PUTMAN, Secretary.

Office, N. E. cor. Jackson & Front streets, up stairs, San Francisco. 25-4t

Kelsey Gold and Silver Mining Company, El Dorado County. Office 605 Sacramento street, San Francisco, June 17th, 1864.

The public are cautioned against purchasing stock in this company standing in the names of the following persons, as the same has been sold for delinquent assessments, and canceled upon the books of the company, viz:

Ole Bergson	J. Ford
A Falk	Andrew Wilson
Sophia Stelger	Jane James
A. E. Shannon	Susan Sweetzer
Joseph Whittle	W. Van Housen
C. H. Killey	Henry E. Brooks
L. Blum	R. D. Scofield
B. F. Butler	G. Israel
C. J. West	E. Maltro
F. W. Bach	E. Cleaves
A. de Castilla	John C. Hall
C. P. Williams	B. Sloeumb

S. C. GARDNER.

25-4t Secretary Kelsey O. & S. M. Co.

Meetings.

North Superior Copper Mining Company, Union Mining District, Plumas County, California.

Notice is hereby given that the Annual Meeting of the Stockholders of the Company, for the election of a Board of Trustees to serve for the ensuing year, and the transaction of any other business that may come before the meeting, will be held at the office of the Company, Room No. 12, 338 Montgomery street, on Monday, the 4th day of July. A. D., 1864 at 11 o'clock, A. M.

T. B. SHERMAN, Secretary.

San Francisco, June 1st, 1864. 24

The Annual Meeting of the Stockholders of the Pioneer Coso Gold and Silver Mining Company, Coso District, for the election of Trustees and the transaction of other business, will be held on WEDNESDAY, the 6th day of July, 1864, at 3 o'clock P. M., at the office of the Secretary, No. 305 Montgomery street, San Francisco. A punctual attendance is requested.

J. S. LUTY, Secretary.

San Francisco, June 2, 1861. 23-4t

Wyandotte Mining Company, Amador District, N. T. The first ANNUAL MEETING of the Stockholders of the Wyandotte Mining Company, for the election of Trustees, will be held at the office of the company, No. 620, Washington street, on Tuesday, June 28th, 1861, at 7½ P. M.

23-4t W. AUGS. KNAPP, Secretary.

Ontario and Webster Gold and Silver Mining Companies, Montgomery District, Mono County, California.

Notice is hereby given that the Annual Meeting of the Stockholders of the Ontario and Webster Gold & Silver Mining Companies will be held on Monday, the 20th day of June, 1864, at 7½ o'clock P. M., at the office of the Companies, 302 Montgomery street, San Francisco. (22-td) H. B. SHELDON, Secretary.

Point Arena Petroleum Mining Company.—The Shareholders of the Point Arena Petroleum Mining Company are hereby notified that the Annual Meeting, for electing officers and other general business, will be held, at the Secretary's office, corner of Sansome and Jackson streets, San Francisco, on the 25th day of June, 1864, at 7 o'clock P. M. The Stock is now in the Secretary's hands, ready to be issued to all parties entitled to the same.

D. S. CUTTER, Secretary. J. R. TOBIN, President.

San Francisco, May 20, 1864. 21-4t

Stars and Stripes Copper Mining Company, Rock Creek District, Calaveras county.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 21st day of May, 1864, an assessment of ten cents per share was levied upon the capital stock of said company, payable immediately, in United States Gold Coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on the 21st day of June, 1864. will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 9th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees. J. J. FINDLEY, Secretary.

23-4t Office, on Rock Creek, Calaveras county, California.

Office of the Ontario and Webster Gold and Silver Mining Companies, Location of Works, Montgomery District, Mono County, California.

Notice is hereby given that at a meeting of the Board of Trustees of said Companies, held on the 26th day of May, 1864, an assessment of twenty-five cents per share was levied upon the assessable stock of said Companies, payable immediately, in United States gold coin, to the Secretary, at the office of said Companies.

Any stock upon which said Assessment shall remain unpaid on the 25th day of June, 1861, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 9th day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. H. B. SHELDON, Secretary.

Office, N. E, corner Montgomery and Pine Sts., Room, No. 2, 3rd floor. Office hours from 12½ M. to 2 P. M. 22-4t

Suerte Copper Mining Company, Carman Island.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held May 24th, 1864, an assessment of twenty-five cents per share, was duly levied upon the Capital Stock of said company, payable May 25th, 1864, in U. S. Gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 25th day of June, 1861, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 11th day of July, 1864, at 12 o'clock M. to pay the delinquent assessment and costs of advertising and expenses of sale. By order of the board of Trustees. ISAAC TABOR, Sec'y.

22-1t Room 7, No. 502 Montgomery Street, San Francisco.

For Sale—A Useful Invention.—EDITORS PRESS:—I wish to call the attention of mill owners and manufacturers of mining machinery, through your columns, to a device of my invention for feeding the ores or materials to be crushed, in the common stamp mill, so much in use in this country. It is simple and efficient, doing the work with far more regularity than can be done by hand; it costs but little, and requires no more attention than can be given to it by some one about the mill, without neglecting his other duties. As I have not the means to introduce the above, I would like to enter into arrangements with some one to aid me, and share the profits of the invention. I would add, it has stood a working test, under my supervision, and has likewise received the approbation of Scientific men.

Any communications on the subject, addressed to J. C. H., El Dorado, El Dorado Co., Cal., will receive prompt attention. 21-4t

Coughs and Colds.—The sudden changes of our climate are sources of PULMONARY, BRONCHIAL and ASTHMATIC AFFECTIONS. Experience having proved that simple remedies often act speedily when taken in the early stages of the disease, recourse should at once be had to *"Brown's Bronchial Troches,"* or lozengers, let the Cold, Cough, or Irritation of the Throat be ever so slight, as by this precaution a more serious attack may be effectually warded off, PUBLIC SPEAKERS and SINGERS will find them effectual for clearing and strengthening the voice. Soldiers should have them, as they can be carried in the pocket and taken as occasion requires.

Agents for California, Redington & Co., San Francisco. 23-1m

NOTICE.

THE COPARTNERSHIP IN THE BANKING BUSINESS heretofore existing between Eugene Kelly of the city of New York, and Joseph A. Donohoe, Wm. C. Ralston, and Ralph S. Fretz, of San Francisco, under the firm name of EUGENE KELLY & CO., New York, and DONOHOE, RALSTON & CO, San Francisco, will cease on the 1st day of July 1864, Eugene Kelly and Joseph A. Donohoe withdrawing from the copartnership.

The business will be settled in New York by Eugene Kelly, and in San Francisco by Wm. C. Ralston and R. S. Fretz.

Depositors are requested to hand in their books for settlement at the banking house of Donohoe, Ralston & Co.

EUGENE KELLY,
(Per J. A. Donohoe, attorney,)
JOSEPH A. DONOHOE,
WM. C. RALSTON,
R. S. FRETZ.

San Francisco, June 13, 1864.

THE UNDERSIGNED, CALLING ATTENTION TO THE above card, give notice that on and after the first day of July next, they will continue the business of the above copartnership without interruption, at the old banking house of Donohoe, Ralston & Co., in this city, under the firm name of FRETZ & RALSTON, and in New York through the agency of Messrs. LEES & WALLER, No. 33 Pine street; and that on and after the 5th day of July next, they, together with D. O. Mills, J. B. Thomas, Louis McLane, Asa T. Lawton, Wm. E. Barron, Thos. Bell, Jno. O. Earl, Wm. Norris, J. Whitney, Jr., O. F. Giffin, A. J. Pope, Herman Michels, Frederick Billings, Geo. H. Howard, H. F. Teschemacher, A. Haywood, Moses Ellis, A. B. McCreary, R. M. Jessup, Samuel Knight, A. C. Wilmerding and Wm. Alvord of San Francisco, and Jacob Korn, of Portland, Oregon, having become for that purpose duly incorporated under the laws of this State, will carry on the business of banking in all of its various branhees at the same place and through the same agency, and upon the basis of a Gold and Silver currency, under the name of

THE BANK OF CALIFORNIA.

D. O. MILLS and WM. C. RALSTON will be charged with the management of the business of the Corporation.

WM. C. RALSTON,
R. S. FRETZ.

San Francisco, June 15, 1864. 25-1m.

Segregated Crown Point Mining Company. Gold Hill Mining District, Nevada Territory.

NOTICE.—There is delinquent upon the following described stock, on account of Assessment levied on the 13th day of May past, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shares.	Amt.
Benham, D C	9	20	$520
Beaham, D C	10	20	520
Beuham, D C	73	8	208
Benham, D C	77	12	312
Benham, D C	121	8	208
Clark, Joseph	53	80	2080
Cheeseman, M	22	7	182
Davison, A	55	20	520
Davison, A	58	12	312
Davison, A	57	4	104
Davison, A	58	4	104
Davison, A	97	12	312
Davison, A	98	8	208
Dana, W A	100	3	78
Dana, W A	111	4	104
Dana, W A	112	8	208
Eells, R S	29	1	26
Goddard, E B (estate of)	107	40	1040
Goddard, E B (estate of)	109	20	520
Hentsch & Berton	28	80	2080
Hemme, Auguste	74	8	208
Hemme, Auguste	103	18	416
Jones, J H	19	8	208
Kohler, A	110	40	1040
Lent, Wm M	60	10	260
O'Neale, W T	63	10	260
O'Neale, W T	64	10	260
O'Neale, W T	65	10	260
O'Neale, W T	68	10	260
O'Neale, W T	67	10	260
O'Neale, W T	88	10	260
O'Neale, W T	79	10	260
O'Neale, W T	70	10	260
O'Neale, W T	71	10	260
O'Neale, W T	72	10	260
Parsons, Levi	96	2	52
Parsons, Levi	102	4	104
Parsons, Levi	118	50	1300
Parsons, Levi	122	18	468
Rust, P C	85	8	208
Rust, P C	86	8	208
Rust, P C	87	8	208
Rust, P C	88	4	104
Rust, P C	89	4	104
Rosenfield	37	5	126
Smith, Benjamin	76	20	520
Street, James	91	20	520
Sutton, E B	101	8	208
Sutton, E B	110	8	208
Sutton, E B	120	4	104

And in accordance with law, and an order of the Board of Trustees, made on the same date, so many shares of each parcel of said stock as may be necessary will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on SATURDAY, the 25th day of June, 1864, at 12 o'clock M., to pay said delinquent assessment thereon, together with cost of advertising and expenses of the sale.

R. N. VAN BRUNT, Secretary.

Office, 706 Montgomery street, San Francisco.

POSTPONEMENT.—The above sale is postponed until TUESDAY, the 5th day of July next, at 12 o'clock M. By order of the Board of Trustees.

25-tf R. N. VAN BRUNT, Secretary.

Tuolumne Gold and Silver Mining Company, Poindexter Lode, San Francisco District, Arizona Territory.

NOTICE.—There is delinquent, upon the following described Stock, on account of Assessment levied on the 10th day of May, 1864, the amount set opposite the name of the following shareholder, to wit:

Name	No. Cert.	No. Shares	Amt.
P J Gifford,	not issued	200	$20 00

And in accordance with law, and an order of the Board of Trustees, made on the 10th day of May, 1864, so many shares of each parcel of said Stock as may be necessary, will be Sold at Jerome Rice & Co's Salesroom, on the 29th day of June, 1864, at the hour of 11 o'clock A. M., of said day, to pay said delinquent Assessment thereon, together with costs of Advertising and expenses of the Sale.

EDW. QUACKENBUSH, Secretary.

Office, 11 Government House, corner Sansome and Washington Streets. 24-4t.

Great Central Tunnel Company--Location, Virginia District, Nevada Territory.

NOTICE.—There are delinquent upon the following described stock, on account of Assessment levied on the 17th day of May, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

S Greenfield John Howe J M Clark and Miles Litchford	325 shs unissued	$216 67 cr. 40 00	bal $176 67
John Spalh John Howe J M Clark and Miles Litchford	216⅔ shs unissued		
Mrs M J Gaylord	650 shs unissued	260 00 cr. 45 00	bal 215 00
Thos Sunderland, Administrator of the estate of H O Gaylord	1137½ shs unis'd	455 00 cr. 226 25	bal 228 75
W T Prince,	650 shs unissued	260 00 cr. 150 00	bal 110 00
Martin White	650 shs unissued	260 00 cr. 90 00	bal 170 00
N Garthwaite and H Garthwaite	162½ shs uniss'd	65 00 cr. 22 50	bal 42 50
Geo E Shelton and H Garthwaite	162½ shs uniss'd	65 00 cr. 22 50	bal 42 50
Levi Taylor	325 shs unissued	130 00 cr. 120 00	bal 10 00
Dr Mineer	487½ shs unissued	195 00 cr. 180 00	bal 15 00
M A Bassett	325 shs unissued	130 00 cr. 120 00	bal 10 00
G D Keeney	162½ shs unissued	65 00 cr. 60 00	bal 5 00
D E Hoff	325 shs unissued	130 00 cr. 120 00	bal 10 00
J W Burnham	325 shs unissued	130 00 cr. 120 00	bal 10 00

In accordance with the laws of California, and an order made by the Board of Trustees on the 17th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on WEDNESDAY, the 6th day of July, 1864, at the hour of 12 o'clock M., of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

M. KELSEY, Secretary *pro tem.*

25-4t Office, Clay street, northeast corner Battery.

Joe Douglass Gold and Silver Mining Company, Reese River District, Lander county, N. T.

NOTICE.—There are delinquent upon the following described stock, on account of Assessments levied on the 18th day of May, 1864, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amt
Charles Schmitt	144	5	$2 50
Warner Earl	142	10	5 00
Thomas Long	141	20	10 00
S L McFarland	138	10	6 00
P C Fenner	123	10	5 00
L Elkers	119	10	5 00
Max Livingston	95	5	2 50
J W Cullen	83	8	4 00
M Barosky	80	20	10 00
J C Kerley	60	5	2 50
Charles Versehoyle	Cert, 121, 122		
	No. Shares, 2, 5		3 50
Levi Foss	Cert, 115, 116		
	No. shares, 2, 5		3 50
M Cassell	Cert, 110, 111, 112		
	No. shares, 15, 10, 10		17 50
S Moore	Cert, 108, 109		
	No. shares, 25, 10		17 50
H Roman	Cert, 81, 82		
	No. shares, 5, 10		7 50
William A Smith	Cert, 61, 62, 63		
	No. shares, 25, 10, 5		20 00
Shields & Nash	Cert, 56, 57		
	No. shares, 5, 5		5 00
Thomas S Elkers	Cert, 52, 53, 54		
	No. shares, 5, 5, 5		8 00
Fred Baker	Cert, 41, 43, 75, 76		
	No. shares, 25, 10, 7, 2		22 00
J M Douglass	Cert 1, 2, 3, 4, 78, 84		
	No shares 20, 20, 20, 20, 2 , 7		53 50
S T Gage	Cert, 34, 35, 37, 38, 39		
	No. shares, 25, 25, 10, 5, 5		35 00
Jas P Wade	Cert, 26, 27		
	No. shares, 50, 25		37 50
J M Massey	Cert, 6, 10, 91, 92, 93, 94		
	No. shares, 50, 5, 25, 10, 10, 5		67 50
J D James—			
Cert, 12, 16, 17, 97, 98, 99, 100, 101, 102, 103, 105			
No. shs, 25, 5, 5, 10, 10, 10, 10, 10, 10, 10, 5			55 00

And in accordance with law, and an order of the Board of Trustees, made on the 18th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the Cohh & Sinton's, No. 406 Montgomery street, San Francisco, on the 2d day of July, 1864, at the hour of 11 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

W. F. HUGHES, Secretary.

25-4t Office, Room 6, Mead House, San Francisco.

Nevada Copper Mining Company, Nevada County, California.

NOTICE.—There is delinquent upon the following described stock, on account of Assessment No. 8, levied May 14th, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shares.	Amount.
Byrne, Jas K	89	44	$22 00
Byrne, Jas K	93	50	25 00
Byrne, Jas K	94	60	25 00
Carter, Chas D	15	50	25 00
Carter, Chas D	65	100	50 00
Carter, Chas D	67	50	25 00
Fricot, Jules	30	25	12 50
Hughes, Thos L	79	50	25 00
Hughes, Thos L	80	25	12 50
Paxson, Jos S	61	96	48 00
Paxson, R C (estate of)	71	96	48 00
Shiels, Wm	9	50	25 00
Smith, C W	31	25	12 50
Spencer, W K	49	25	12 50
Spencer, W K	83	50	12 50
Wheaton, Wm R	34	100	50 00

And in accordance with law, and an order of the Board of Trustees, made May 14th, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the salesroom of Cobb & Sinton, No. 406 Montgomery street, San Francisco, on the 2d day of July, 1864, at 11 o'clock A. M., to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

RICHARD S. CLARK, Secretary.

25-4t Office, No. 610 Merchant street, San Francisco.

Our Circulation.—THE MINING AND SCIENTIFIC PRESS has a large and permanent subscription list, and enjoys a more universal circulation among stockholders and persons directly interested in mining than any other paper on this coast.

Mt. Zion Gold, Silver and Copper Mining Company, Clayton District, Contra Costa county, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of Assessment levied on the 16th day of May, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert	No. Shares	Amount.
Joel Clayton,	108	10	$5 00
Joel Clayton	109	5	2 50
P Shirley,	160	100	50 00
P Soirley,	161	25	12 50
P Shirley,	162	25	12 50
P Shirley,	163	25	12 50
P Shirley,	164	25	12 50
S J Bennett	144	25	12 50
S J Bennett,	145	50	25 00
S J Benaett,	146	100	50 00
T B Storer,	186	50	25 00
T B Storer,	187	50	25 00
T B Storer,	188	25	12 50
T B Storer,	189	25	12 50
T B Storer,	190	20	10 00
T B Storer,	191	20	10 00
S Barrow,	72	20	10 00
S Barrow	73	20	10 00
S Barrow,	75	20	10 00
S Barrow,	76	20	10 00
S Barrow,	138	5	2 50
S J Blanding	142	200	100 00
F P Green,	44	25	12 50
F P Green,	45	25	12 50
F P Green,	77	25	12 50
F P Green,	112	25	12 50
G E Drew,	not issued	3	$1 50
J F Williams,	104	25	12 50
G M Dexter,	80	25	12 50
G M Dexter	304	25	12 50
J R Gates,	113	10	5 00
J R Gates,	137	8	3 00
J R Gates	293	20	10 00
J R Gates,	217	5	2 50
J R Gates,	247	10	5 00
J R Gates,	255	40	20 00
H H Byrne,	127	25	12 50
H H Byrne,	128	25	12 50
C Morgan,	149	5	2 50
Geo W Morgan,	150	6	2 50
Thos Prince,	221	30	15 00
Thos Prince	288	50	25 00
C Alison,	262	5	2 50
R Hall,	122	10	5 00
R Hall,	123	6	2 50
R Hall,	130	15	7 60
R Hall,	237	20	10 00
R Hall	257	100	50 00
R Hall	260	50	25 00
R Hall,	282	10	5 00
R Hall,	281	10	5 00
R Hall,	274	25	12 60
R Hall,	315	2	1 00
R Hall,	327	200	100 00
P Cram,	268	12	6 00
P Cram,	299	75	37 50
W M Huntoon,	317	25	12 50
W M Huntoon,	318		5 00
W A Whittchorne,	322	188	93 00
R Chandler,	330	5	2 60
R R Sandford,	178	2	1 00
R A Sandford,	179	5	2 10

And in accordance with law, and an order of the Board of Trustees, made on the 16th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the office of the Secretary, on the 6th day of July, 1864, at the hour of 12 o'clock M. of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

A. G. WOOD, Secretary.

Office, 240 Montgomery street, southeast corner of Pinn street, San Francisco. 25-4t

Oxford Beta Tunnel and Mining Company, Silver Hill, Esmeralda District, Nevada Territory.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 9th day of May, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shares.	Amt.
A Hinds	32	50	$25 00
Gilbert Clements	189	100	60 00
Freeman B Lyle	24	20	10 00
Freeman B Lyle	25	20	10 00
Freeman B Lyle	26	15	7 60
Freeman B Lyle	30	5	2 50
H G Fiske	121	20	10 00
H C Fiske	122	20	10 00
H G Fiske	123	25	12 50
H G Fiske	124	15	7 50
H G Fiske	125	10	5 00
H G Fiske	126	5	2 50
H G Fiske	127	6	2 50
A A Kneedler	130	10	5 00
Geo W Kneedler	131	10	5 00
Richard A Chase	132	10	5 00
Richard A Chase	133	15	7 50
John Abeel	137	5	2 50
Wm Smith	138	25	12 50
J R Sproul	139	5	2 50
Chas A Eisle	143	10	5 00
Chas A Eisle	144	10	5 00
Powell Crosby	171	6	2 50
Jas Linforth	188	100	50 00
M Grogan	80	10	5 00
H D Slade	2	15	7 50
E F Dennison	172	5	2 50
Mier & Bauer	167	10	5 00
A P Petit	106	25	12 50

And in accordance with the law and order of the Board of Trustees, made on the 28th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Jerome Rice & Co. No. 327 Montgomery street, San Francisco, on the 6th day of July, 1864, at the hour of 11 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with cost of advertising and expenses of the sale.

25-2t GEO. H. PECK, Secretary.

Office, cor. Sansome and Broadway streets, San Francisco.

GEORGE W. CUTTER, the distinguished poet, author of the "Song of Steam," "E. Pluribus Unum," and other popular pieces, has been sentenced to six months imprisonment in the city prison, Cincinnati, for vagrancy and drunkenness.

Memoranda
FOR MINING SECRETARIES
ADVERTISING NOTICES ON SATURDAYS.

DATING OF ADVERTISEMENTS.

Assessments levied by order of the Board of Trustees of Mining Companies will be duly advertised, in strict accordance with the new law, in the MINING AND SCIENTIFIC PRESS by observing the following rules, which we publish for the purpose of assisting Secretaries in expediting their business, and avoiding the possibility of errors in regard to dates:

When the order for an assessment is made on MONDAY, TUESDAY, WEDNESDAY, THURSDAY or SATURDAY of *any week*—

THE NOTICE OF ASSESSMENT may appear on the FIRST SATURDAY subsequent to the order.

THE DAY FOR THE NOTICE OF SALE to appear may be fixed on the FIFTH SATURDAY subsequent to the order.

THE DAY OF SALE may be fixed on the SEVENTH SATURDAY, or any day (except Sunday) from that date to the EIGHTH FRIDAY, subsequent to the order.

OWING to the arbitrary provisions of the new law (the original bill of which deprived the mining public of the benefit of their choice of advertising in weekly journals), no assessment can be made upon any Friday, and the publication of the NOTICE OF SALE be made weekly in the Saturday issue of any daily or weekly newspaper. *But* ALL *Notices of* ASSESSMENT *can duly appear on Saturday*; also, Notices of Sale except in cases where the order for assessment is dated on Friday.

REVISED COPIES of advertisements will be furnished gratuitously to Secretaries who desire advertising near the mines.

ADVERTISEMENTS should be handed into the office as early in the week as possible.

Our columns are considerably wider than those of the daily papers, and consequently more words are contained in a square of our matter.

DEWEY & CO., Publishers,
Mining and Scientific Press, 56 and 57 Government House, corner Washington and Sansome streets, San Francisco.

FORM OF NOTICES—NEW LAW.

[NOTICE OF ASSESSMENT.]

Thunderboldt Gold and Silver Mining Company, Virginia District, Storey county, Nevada Territory.]

NOTICE is hereby given, that at a meeting of the Board of Trustees of said Company, held on the [4th day of April, 1864], an assessment of [twenty-five cents] per share was levied upon the capital stock of said Company, payable on the [5th] day of [April, 1864,] to the Secretary, or to John Brehard, Superintendent, at the mine]. Any stock upon which assessment shall remain unpaid on [Saturday, May 7th, 1864,] will be advertised on that day as delinquent, and, unless payment shall be made before, will be sold on [Saturday, May 21st, 1864, at 12 o'clock, M.,] to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees,

[JOHN HANCOCK, Secretary.
Office, Room 77, No. 224 Montgomery street, San Fraacisco.]

[NOTICE OF SALE.]

Thunderboldt Gold and Silver Mining Company, Virginia District, Storey County, Nevada Territory.]

NOTICE.—There is delinquent upon the following described stock, on account of assessments levied on the [fourth day of April, 1864], the several amounts set opposite the names of the respective shareholders, as follows:—

NAMES.	NO. OF CERTIFICATES.	NO. OF SHARES.	AMOUNT.
Jas. Dixoa.....	24	18	$26 28

And in accordance with law, and an order of the Board of Trustees, made on the [fourth day of April, 1864], so many shares of each parcel of said stock as may be necessary will be sold at [the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco,] on [Saturday, May 21st, 1864, at 12 o'clock M. of said day], to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

[JOHN HANCOCK, Secretary.
Office, 224 Montgomery street, San Francisco.]

A Correct Idea.

We have been informed, "officially," that the directors of several mining companies, in this city, have notified their stockholders, by circular, that all the notices of meetings, assessments, etc., relating to their several companies will hereafter be published in the MINING AND SCIENTIFIC PRESS: the only mining paper in the State, all sufficient as an advertising medium, and one eminently worthy the support of mining men and mining companies generally. We are certainly thankful for such expressions of appreciation in behalf of our efforts, on the part of the mining public, and shall continue to labor to the best of our ability, in earnest effort to benefit the miner individually and mining interests generally. We could accomplish much more than we are now doing, if our mining friends would still further concentrate their patronage upon our columns, and we think moreover that we could serve them quite as well as any other journal. Our circulation is already large and rapidly increasing. The matter given in our columns, and its typographical appearance, speaks for itself. As an advertising medium for mining notices, and such business matters as it is desirable to bring before the mining public, we believe the MINING AND SCIENTIFIC PRESS is second to no other paper in the State.

ATTENTION SECRETARIES! — The new advertising law requires mining notices appearing in the county in which the works are situated, to be published Saturdays, if a paper is published there on that day. Consequently advertisements answering the requisitions of the new law by publication in the MINING AND SCIENTIFIC PRESS, will be correct for insertion in the paper nearest the mine, in most cases. We append the section requiring the above provision, which we presume has been overlooked by some in making out their notices:

Section 6. * * * * * And also in some paper published in the County in which the works of the corporation are situated, if a paper be published therein; *provided*, that if the works of the corporation are not situated within some State or Territory of the United States, then publication in a paper of the County shall not be necessary; and *provided, also*, that if there is no paper regularly issued on Saturdays at any place where publication is required to be made, the notice may be published in every issue of the paper which is most frequently issued at such place, for the full period of four weeks.

The spirit of the new law seems throughout to be in favor of advertising all notices of assessments and sales on Saturday, and as most papers in the interior are issued on that day, the fact will prove a matter of convenience to secretaries.

WM. T. COLEMAN & CO.,
70 WALL STREET,
NEW YORK.

BUY AND SELL, ON COMMISSION, STATE AND CITY BONDS, Bank and Railroad Stocks, and other prime securities.
Buy and sell Exchange on California, Oregon and Western Cities.
Grant Letters of Credit, available in any part of the United States.
Receive moneys on deposit, and allow interest on special deposits at such rates as may be agreed upon.
Receive consignments of produce from California and Ports in the Pacific.
Make advances upon approved merchandise consigned to our San Francisco house.
Fill orders for staple goods of all kinds, for the California and Oregon markets, and effect Marine and Fire Insurance in the best offices.
Buy and sell and charter Vessels for all trades.
AGENTS FOR "COLEMAN'S CALIFORNIA CLIPPER LINE," loading and despatching regularly, every month, two to three first class clippers for San Francisco. Goods forwarded from any part of the United States or Europe, will be received with care, and shipped immediately at lowest current rate of freight. Bonded goods carefully attended to.
Orders for purchase of merchandise should be accompanied with a remittance of about 20 per cent. of the cost, or satisfactory arrangements can be made with our San Francisco house. On order for Bonds and Stocks, 10 per cent. of the par value is always required.
We beg to say, no house has superior facilities for the transaction of all this business, and parties intrusting their interests to our care may rely upon our most faithful and watchful attention.
WM. T. COLEMAN & CO.,
70 Wall street, New York,
18v8 And California and Front streets, San Francisco.

Advances Made on Copper Ores,

WOOL, HIDES, WHALE OILS, ETC., CONSIGNED TO OUR friends in New York, Boston or England.
WM. T. COLEMAN & CO.,
18v8 San Francisco.

Exchange on New York,

PAYABLE IN COIN OR IN CURRENCY—FOR SALE, IN SUMS to suit, by WM. T. COLEMAN & CO.,
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Two Good Canvassing Agents can find profitable employment by calling at this office. None but active and competent men need apply.

MINING AND SCIENTIFIC PRESS.—This is one of our most valuable exchanges. It comes to us filled with the most valuable articles, original and selected, upon the subject of mining, and we scissorize it to an awful extent. Every person engaged in mining to any extent, should be a subscriber to the PRESS.—*Gold Hill News.*

ENLARGEMENT
—AND—
Important Improvement
—OF THE—
MINING AND SCIENTIFIC PRESS.

Enlarged from Eight to Sixteen Pages at the Commencement of Volume VIII, January 1st, 1864.

TWO VOLUMES (OF 416 PAGES EACH) PER ANNUM.

PUBLISHED EVERY SATURDAY.

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One Volume, six months,.....$3.00
Two Volumes, one year,..... 5.00
Five Copies, one year,..... 20.00

The present proprietors of this journal announce with confidence their determination to render to the friends of Science, Mining and Mechanical Industry a newspaper published upon this coast worthy of their patronage at home and their pride abroad. We shall seek favors only through our endeavors to merit them.

The Editorial Department

Will be conducted with ability, in a liberal and reliable manner sparing not in expense, veneration for honesty, or respect for common sense.

Competent Correspondents

Will be employed to furnish us full and reliable information concerning newly-discovered mines; and through vigilant efforts we shall secure for our readers the latest intelligence from all important mining localities. In our list of

Occasional Contributors

We have the privilege of numbering gentlemen ranking among the most talented and experienced writers who manifest a prominent interest in the progress of Art and Science upon this coast, including the names of

PROF. J. D. WHITNEY, J. H. CHURCHILL, A. M.,
DR. T. M. LOGAN, A. B. PAUL,
DR. J. A. VEATCH, H. S. BROOKS,
REV. O. C. WHEELER, W. WADSWORTH,
M. ATWOOD, T. PRICE,
PROF. W. H. BREWER. J. E. CLAYTON.

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Superior in finish and useful and attractive in character, will be published from time to time, representing the most important new inventions and improvements in the art and science of

Mining and Mechanism

Developed upon this Coast. Each number of the paper will contain full and correct reports of
Sales by the Stock Boards of San Francisco.
Sales by the Stock Board of Virginia City.
Sales by the Stock Board of Esmeralda.
Sales by all Mining Stock Boards.
Reports of Bids and Sales in San Francisco.
Reports of Bids and Sales in the Territory.
A Weekly Review of the Stock Markets.
A Weekly Review of General Mining Interests.
General Summary of California Mining News.
General Summary of Mining everywhere.
Valuable Information for all Miners.
Indispensable Knowledge for practical workmen,
Practical Suggestions for inteligent artizans.

Valuable Facts and Statistics

Essential to members of all trades and professions; the best approved methods of mining; the latest discoveries and inventions in mining operations; practical, scientific views upon geological and mineralogical questions; the proper methods of reducing ores and saving the precious metals. In fact every sentence calculated to lessen the number of hard blows uselessly rendered by miners and working men, and add wealth by intelligent saving of material or labor, will find welcome space in our columns. The paper will afford many

Practical Hints

With regard to the manner of working and securing mines, derived from the actual experience of parties in our own and other countries. Also hints concerning the location and possession of mining grounds; the laws peculiar to different districts and countries; and notices of all important decisions of the law in mining cases. As a

Book of Reference

The bound volumes of the PRESS will find no rival in value to the intelligent and industrious citizens of the Pacific Coast, who cannot but feel a source of pride in the history of the inventions, discoveries and prosperous developments of the remarkable era through which we are now passing.

The Stock Record

As presented in our columns will be found correct, distinct and most convenient for preservation and future reference.

For Sending Abroad.

As a paper for mailing regularly to your friends in the East, or to correspondents elsewhere, none can be selected more appropriate, or better calculated to dispense reliable information with regard to transpiring events on this coast and the progress of California.

Specimen copies will be sent free to those desiring to examine the paper before subscribing. Postmasters, Express Agents and News dealers, acting as our agents, will receive liberal commissions.

Friends pleased with our efforts in the publication of the PRESS can render us essential aid by furnishing correspondence and all important information which may come under their observation, and by calling the attention of their neighbors to the commendable features of the paper; the appreciation of which favors will be duly manifested by the constant improvement of our journal.

OFFICE in Government House, Nos. 56 and 57, corner of Washington and Sansome streets, San Francisco.

DEWEY & CO., Publishers,
C. W. M. SMITH.....W. B. EWER.....A. T. DEWEY.

It is Impossible for editors to know ALL the merits and demerits of their correspondence, consequently the reader must not receive the opinions of our contributors as our own. Intelligent discussion is invited upon all sides, and the evidence of any error upon our part will be received in friendship, and treated with respect.

Illinois Gold and Silver Mining Company, Smoky Valley District, Lander county, Nevada Territory.

Notice is hereby given, that there are delinquent upon the following described stock, on account of Assessment No. 2, levied May 2d, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amt.
Bradshaw, T T	23	10	$5 00
Bemis & Edson,	3	20	10 00
Benoist, T S	24	10	5 00
Brooks, Hy S	87	4	2 00
Brush, R G	25	5	2 50
Brush, R G	52	50	25 00
Brush, R G	01	5	2 50
Cary, James	58	1	50
Cromer, Henry	56	5	2 50
Edson, E W	2	5	2 50
Gable, Henry	96	10	5 00
Gable, Henry	97	20	10 00
Gable, Henry	101	15	7 50
Gray, John	33	10	5 00
Grotjan, G W	92	1	50
Irviae, John	36	10	5 50
Irvine, John	37	10	5 00
Irviue, John	38	5	2 50
Irvine, John	98	10	5 00
Irvine, John	99	10	5 00
Irvine, John	100	10	5 00
Lockwood, J	57	4	2 00
Lusk, C D	4	5	2 50
Marshall, Chas	41	100	50 00
Marshall, Chas	42	50	25 00
Marshall, Chas	44	10	5 00
Marshall, F'dk	62	25	12 50
Marshall, F'dk	63	25	12 50
Marshall, F'dk	64	25	12 50
Marshall, F'dk	65	25	12 50
Marshall, F'dk	66	25	12 50
Marshall, F'dk	67	10	5 00
Marshall, F'dk	68	10	5 00
Marshall, F'dk	69	10	5 00
Marshall, F'dk	70	10	5 00
Marshall, F'dk	71	10	5 00
Morton, Benj	72	50	25 00
Morton, Benj	73	20	10 00
Morton, Benj	74	20	10 00
Morton, Benj	75	20	10 00
Morton, Benj	76	10	5 00
Morton, Benj	77	10	5 00
Morton, Benj	78	10	5 00
Morton, Benj	79	5	2 50
Morton, Benj	80	5	2 50
Morton, Benj	81	5	2 50
McGraw, —	60	2	1 00
Nahl, H W A	90	1	50
Odell, J	1	5	2 50
Parsons, S H	45	100	50 00
Parsons, S H	46	50	25 00
Parsons, S H	47	15	7 50
Poole, M M	30	10	5 00
Rogers, Geo P	50	5	2 50
Turner, Geo R	86	2	1 00
Waters, E D Jr	4	25	12 50
Waters, F C	14	25	12 50
Watrous, C	89	2	1 00
Wyman, H A	5	2	1 00

And in accordance with the laws of the State of California, and an order of the Board of Trustees, made on the 2d day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on SATURDAY, the 18th day of June, 1864, to pay said delinquent assessment thereon, together with the costs of advertising and the expenses of sale.

GEO. C. HARRIMAN, Secretary.

23-2t Office, No. 522 Clay street, San Francisco.

POSTPONEMENT.—The above Sale is postponed by order of the Board of Trustees, to SATURDAY, the 25th day of June, 1864.

GEO. C. HARRIMAN, Secretary,

25-2t Office, 622 Clay street.

Pacific Mail Steamship Company.

THE FOLLOWING STEAMSHIPS WILL BE DESPATCHED FROM SAN FRANCISCO IN THE MONTH OF JUNE, 1864.

June 13—CONSTITUTION.....J. T. Watkins, Commander.
June 23—GOLDEN AGE.....Wm. F. Lapidge, Commander.

From Folsom street Wharf, at nine o'clock A. M., punctually,

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Is is full of the most valuable reading matter. Those at all interested in mining affairs should subscribe for it at once.—*Alameda Gazette.*

It is devoted to news, art, science and progress, and should receive a liberal support.—*Solano Press.*

Terms in Advance.—Having adopted the cash system, ALL payments for subscriptions must be made in advance. If old subscribers find their paper discontinued at any time, don't stop to grumble about it, but send in the cash for another year. "Equality is Justice," and we shall administer this doctrine to all our patrons, as well as "the rest of mankind."

How to make your Remittances.—In most of the mining towns, brokers will furnish checks on San Francisco at par, (or at a very slight advance) to those who wish to pay us for subscriptions, advertising, mining blanks, etc. When it is more convenient, money may be remitted by mail at our risk if the parties sending will register their letters. Money sent by mail is seldom lost if properly inclosed. An excellent method is that of opening the layers of a card, placing the coins between the layers and sealing the edges together.

La Favorita Mining Company, Moctezuma District Sonora, Mexico.

NOTICE.—There is delinquent upon the following described stock on account of assessments levied on the 3d day of May, 1864, and assessments levied previous thereto, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. of temporary Certificates.	No. Shares.	Amt.
J B Neustadter,	8	5	$17 50
J B Neustadter,	not issued	35	122 50
Joseph H Frank	6	5	17 50
Joseph H Frank,	not issued	35	122 50
Henri J Hellman,	50	10	27 50
Henri J Hellman,	51	5	13 75
Henri J Hellman,	52	5	13 75
Henri J Hellman.	53	5	13 75
Henri J Hellman,	54	5	13 75
Henri J Hellman,	55	5	13 75
Henri J Hellman,	not issued	45	123 75
N Del Blanco,	not issued	80	140 00

And in accordance with law, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom Jerome Rice & Co., Auctioneers, No. 327 Montgomery street, San Francisco, on SATURDAY, the 18th day of June, 1864, at 11 o'clock A. M. of said day, to pay said delinquent assessments thereon, together with costs of advertising and expenses of said.

ELKAN WASSERMANN, Secretary.

Office, No. 429 Sacramento street, San Francisco.

San Francisco, June 4th, 1864. 23-3t

Great Western Gold and Silver Mining Company.

Notice is hereby given, that there are delinquent upon the following described stock, on account of assessment No. one (1) levied Nov. 17th, 1863, and assessment No. two (2) levied March 17th, 1864 the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certif.	No. Asst.	No. Shs.	Am't
E. D. Spencer	32	1 & 2	10	$9 10
E. D. Spencer	no cer	1 & 2	140	125 00
James Collins	81 & 51	1 & 2	35	31 50
James Collins	no cer	1 & 2	42	38 25
M. P. Holmes	63, 64, 65	1 & 2	25	22 50
C. B. Genung	no cer	1 & 2	150	135 00
W. R. Stearns	no cer	1 & 2	150	135 00
E. D. Merriam,	55, 56, 57, 58, 59, 66	1 & 2	90	81 00
J. W. Beauchamp	no cer	1 & 2	150	135 00
E. Minturn	no cer	1 & 2	150	135 00
M. H. Kimball	no cer	1 & 2	150	135 00
J. P. Davidson	no cer	1 & 2	150	135 00
J. R. Hughes	49	2	150	37 50
E. G. Baker	70, 71, 72	2	15	8 75
John Scott	28	2	3	75

And in accordance with law and an order of the Board of Trustees made on the 20th day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, on the 29th day of June 1864, at the hour of 12 o'clock M, of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

BROCK JOHNSON, Secretary.

Office, No. 28 Government House, corner Washington and Sansome Street, San Francisco. 22-5t

Mountain Mary Gold and Silver Mining Company, Silver Mountain, Alpine county, Cal.

NOTICE—There are delinquent upon the following described stock, on account of Assessment levied on the 23d day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:—

Names.	No. Certificate.	No. Shares.	Amt.
Goodell, C	not issued	250	$62 50
Haine, Samuel	not issued	100	25 00
Osborn, Charles	not issued	50	12 50
Skinner, M. B.	not issued	240	60 00
Sykes, J. H.	not issued	125	31 25
Sheldon, Mary A.	not issued	125	31 25
Wright, J. O.	not issued	25	6 25

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of April, 1864, so many shares of said stock as may be necessary, will be sold, at the office of the Company, on the 16th day of June, 1864, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

J. WARREN CLARK, Secretary.

Office, No. 430 Montgomery street, Room No. 5, 3d floor, San Francisco. 22-2t

Wall Street Gold and Silver Mining Company, Reese River District, Lander County, N. T.

NOTICE.—There are delinquent, upon the following described Stock, on account of Assesment levied on the 3d day of May, 1864, the several amounts set opposite the names of the respective Shareholders, as follows:

Names.	No. Certif.	No. Shares.	Amt.
R C Wilcox	25	20	$10 00
R C Wilcox	26	20	10 00
R C Wilcox	28	20	10 00
R C Wilcox	29	20	10 00
R C Wilcox	45	5	2 50
R C Wilcox	53	10	5 00
R C Wilcox	54	10	5 00
R C Wilcox	55	20	10 00
R C Wilcox	77	10	5 00
A J Hedrick	56	20	10 00
A J Hedrick	57	20	10 00
A J Hedrick	58	10	5 00
R B Turner	40	10	5 00
Wm H Glascock	46	10	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 3d day of May, 1864, so many Shares of each parcel of said Stock as may be necessary, will be sold at the office of the company on the 18th day of June 1864, at the hour of 11 o'clock A. M., of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

WM. H. DUDLEY, Secretary.

23-2t Office, No. 528 Montgomery street, San Francisco.

A New and Valuable Book.

PROCESS OF SILVER AND GOLD EXTRACTION, BY GUIDO Kustel, Mining Engineer and Metallurgist, former manager of the Ophir Works, &c.; 350 pages octavo illustrated.

This admirable work has met with the highest commendations from the Press and Scientific men, as a clear and able exposition of the science as practised in California and Nevada Territory. It is written for the people in good plain English and finely illustrated.

Price—post paid—Cloth $6; Sheep $7.

A. ROMAN & CO.,
Booksellers, Importers and Publishers,
417 and 419 Montgomery street,
no30-tf San Francisco.

Cortez Gold and Silver Mining Company, Cortez District, Nevada Territory,

NOTICE.—There are delinquent, upon the following described Stock, on account of Assessment levied on the 27th day of April, 1864, the several amounts set opposite the names of the respective Shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amt.
Blasdel, H G	240	50	$125
Booth, L A	45	100	250
Booth, L A	46	100	250
Booth, L A	47	50	125
Booth, L A	264	50	125
Ball, N A H	66	20	50
Ball, N A H	67	20	50
Ball, N A H	68	20	50
Ball, N A H	69	20	50
Ball, N A H	70	20	50
Ball, N A H	71	10	25
Ball, N A H	72	10	25
Ball, N A H	73	5	12 50
Bee, A W	192	100	250
Bee, A W	193	100	250
Broughton, Alice W	22	2	5
Broughton, Emma C	23	2	5
Blake, Wm P	280	20	50
Blake, Wm P	281	20	50
Blake, Wm P	282	20	50
Blake, Wm P	283	20	50
Blake, Wm P	284	20	50
Collins, John A	253	100	250
Collins, John A	254	25	62 50
Collins, John A	255	25	62 50
Collins, John A	256	17	42 50
Clary, W H	265	25	62 50
Durning, Charles	179	5	12 50
Durning, Charles	180	5	12 50
Durning, Charles	181	5	12 50
Durning, Charles	182	5	12 50
Durning, Charles	293	130	325
Doling, P F	88	50	125
Day, H H	94	50	125
Earl, E M	95	25	62 50
Earl, E M	96	50	125
Earl, E M	97	100	250
Earl, E M	98	200	500
Eastland, Joseph G	24	25	62 50
Farrell, H	30	125	312 50
Farrell, H	31	125	312 50
Farwell, W B	115	50	125
Ferris, M J	210	25	62 50
Ferris, M J	211	25	62 50
Ferris, M J	212	25	62 50
Ferris, M J	213	25	62 50
Ferris, M J	214	25	62 50
Garnett L A	290	166	415
Gordon, John	21	25	62 50
Gordon, John	270	25	62 50
Gordon, John	271	25	62 50
Howard, B C	133	5	12 50
Hathaway B W	6	62	155
Hathaway B W	7	2	5
Irelaud, L F	32	25	62 50
Ingols, N L	262	25	62 50
Jones, E J Mrs.	8	25	62 50
Jones, E J Mrs.	261	25	62 50
Jones, E J Mrs,	259	50	125
King, S T	140	10	25
King, S T	141	10	25
King, S T	142	10	25
King, S T	274	50	125
King, S T	275	25	62 50
King, S T	276	25	62 50
Lehmann, Christian	100	5	12 50
Leavitt, John	50	50	125
Leavitt, John	201	50	125
Leavitt, John	202	50	125
Leavitt, John	203	25	62 50
Leavitt, John	204	25	62 50
Leavitt, John	205	25	62 50
Leavitt, John	206	25	62 50
Leonard, E W	277	25	62 50
Merrill, I M	222	250	625
Merrill, I M	223	50	125
Merrill, I M	224	31	77 50
McCurdy, Saml	183	250	500
McCurdy, Saml	184	180	450
Macpherson, A W	289	229	572 50
Moore, M R Mrs	238	200	500
Moore, J Preston	239	50	125
McGinnis, Terry	285	50	125
McGinnis, Terry	286	50	125
McGinuis, Terry	287	50	125
Perkins, R F	20	4	10
Steinbring, Chas	195	18	45
Sprott, Henry	226	10	25
Townsend, T B	99	10	25
Veatch, A A	150	5	12 50
Veatch, A A	151	5	12 50
Veatch, A A	152	5	12 50
Veatch, A A	161	10	25
Veatch, A A	162	10	25
Veatch, A A	163	20	50
Veatch, A A	164	20	50
Veatch, A A	155	20	50
Veateb, A A	166	20	50
Vestch, A A	167	20	50
Veatch, A A	168	20	50
Vesteh, A A	169	20	50
Veatch, A A	170	20	50
Vandervoort, J C	268	25	62 50
Vsndervoort, J C	269	25	62 50
Ware, William	29	125	312 50
Wilson, James	54	20	50
Wetherbee, H	12	100	250
Wetherbee, H	13	50	125
Wetherbee, H	14	10	25
Wetherbee, H	15	10	25
Wetherbee, H	16	10	25
Wetherbee, H	18	2	5
Wilson, E	251	50	125
Wilson, E	252	24	60
Wilson, E	267	25	62 50
Wilson, Thomas	233	5	12 50
Wilson, Thomas	234	5	12 50

And in accordance with law and an order of the Board of Trustees, made the same date, so many shares of each parcel of said stock as may be necessary, will be sold at the salesroom of Messrs. Jerome Rice & Co., 327 Montgomery Street, San Francisco, on Monday the 20th day of June, 1864, at 12 o'clock M., to pay said delinquent assessments thereon, together with cost of advertising and expenses of the sale.

R. N. VAN BRUNT, Secretary.

23-3t Office, 706 Montgomery street, San Francisco

POSTPONEMENT.—The above sale is postponed until Thursday, the 23d day of June, 1864, at 12 o'clock M. By order of the Board of Trustees. R. N. VAN BRUNT, Secretary.

Office, 706 Montgomery Street, San Francisco. 25

G. E. MOORE,

Assayer and Analytical Chemist,

Having established a Chemical Laboratory, furnished with every requisite for delicate Analytical work, is prepared to execute the Assay and Analysis of Ores, Mineral Waters, Guanos, etc., with accuracy and dispatch No. 334 Montgomery Street.

REFERENCES:—Prof. J. D. Whitney, State Geologist, San Francisco; Alsop & Co., San Francisco; Sather & Church, San Francisco; John Parrott, San Francisco; D. O. Mills, Sacramento. 1tf

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Consulting Chemist, [from Europe.]

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Refer to the Editors of this Journal.

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—AND—

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WORKING ASSAYS MADE ON LARGE OR SMALL QUANTITIES of Ore by the most approved methods, and instructions regarding the reduction of them, in general, given. Assaying of Ores, etc., taught, either by the wet or dry method. Silver Ores reduced by means of Electricity.

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☞ Gold and Silver Ores Reduced.

Practical Assays made of Gold, Silver and Lead Ores.

19-1f Also Cupellation and Refining of Silver and Gold. ☜

NORTH BEACH

Quartz Mill and Reduction Works

ARE PREPARED TO WORK GOLD AND SILVER ORES, IN large or small quantities.

Working assays made of small lots, and all kinds of ores crushed at short notice.

Our new and complete Machinery, will enable us to give results fully up to the merits of rock.

WHEELER & THAYER, Proprietors.

C. C. JONES, Amalgamator.

San Francisco, Oct. 13, 1863. j2tf

HOWLAND, WOODARD & WILSON,

Copper Crushing and Grinding.

Attend to all kinds of Grinding & Crushing,

—SUCH AS—

COPPER ORES, MARBLE DUST, FIRE-BRICK DUST, DRUGS,

And Feed of all Kinds,

All of which will be Ground at the Shortest Notice.

—ALSO—

California Mineral Paint and Mineral Polishing Powder.

Works—No. 537 Market Street.

San Francisco, January 1st, 1861. 1-tf

DEETKEN & CO'S.,

METALLURGICAL WORKS,

FOR THE REDUCTION OF

SILVER AND GOLD ORES, TAILINGS, SULPHURETS, ARENIURETS, ETC., ETC. CUPELLATIONS AND REFINING OF SILVER AND GOLD,

Practical Assays for Silver and Gold, in small and large quantities, by Smelting, Chloriuation and Pan Manipulation.

WORKS—On the San Bruno Road.

OFFICE—No. 315 Montgomery St., San Francisco. 16v8-tf

HUCKS & LAMBERT,

ORIGINAL MANUFACTURERS OF THE

Celebrated H. & L. Axle Grease,

Nntoma and Minna streets, San Francisco.

THIS COMPOSITION IS PECULIARLY ADAPTED FOR QUARTZ Mill Machinery, Heavy Bearings, etc., for which purpose it has a widely extended reputation. 22v8-3m

PRATER'S

PATENT CONCENTRATOR.

THE PROPRIETORS OF THIS NEW CONCENTRATOR, HAVING completed arrangements for its manufacture at the Fulton Foundry, in this city, now offers it to the public, with the fullest confidence that for the purpose for which it is designed

It Has No Equal in Use.

The principle of this machine, which is designed for a Concentrator exclusively, is entirely new. It is designed for separating finely divided quicksilver, amalgam and gold from the sands, and for concentrating and saving the sulphurets, and is to be placed behind all or any other machine in use. It is now in operation at

WHEELER & THAYER'S REDUCTION WORKS,

NORTH BEACH, SAN FRANCISCO,

To whom the Proprietors are permitted to refer, and where all interested in mining are respectfully invited to call and examine the best Concentrator in use.

This machine is now running on waste sands, from which it is taking out an average of 3½ pounds of quicksilver for each ton of sand. Orders or letters of enquiry may be addressed to

HUNGERFORD & PRATER, Proprietors.

San Francisco, April 1st, 1864. 14v8-tf

American and Foreign Patents.—Letters Patent for Inventors can be secured in the United States and foreign countries through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past year.

COMPLIANCE WITH LAW.

THE PHŒNIX

INSURANCE COMPANY,

—OF—

Hartford, Conn.,

HAS MADE FULL COMPLIANCE WITH THE STATE LAW BY DEPOSITING

$75,000

With Messrs. Banks & Co., Bankers, and holds

Controller's Certificate of Authority.

The patronage of the insuring public is respectfully solicited for this first-class American Insurance Company.

AGENTS IN ALL CITIES, TOWNS AND VILLAGES.

R. H. MAGILL,
General Agent.

CITY OFFICE—James King of William Building, Southwest corner of Montgomery and Commercial Streets, (Entrance No. 603 Commercial.)

L. B. DELL, Resident Agent.

L FRANK, City Solicitor. 20-tf

A. S. HALLIDIE & CO.,

WIRE ROPE MANUFACTURERS.

Established 1857.

Office, No. 412 Clay street—Works, North Beach, SAN FRANCISCO.

After seven years' use throughout the State of California and the Pacific Coast generally, we can confidently recommend Wire Rope for

HOISTING FROM DEEP MINES,
GUY ROPES FOR DERRICKS, &c.,
STANDING RIGGING FOR SHIPS,
FERRY ROPES FOR FERRIES,
SASH CORD FOR WINDOW SASHES,
ETC., ETC., ETC., ETC., ETC., ETC

It being Cheaper, Stronger, Lighter and More Durable than any other kind of Rope, and not stretching or shrinking by atmospheric changes.

MINING COMPANIES, by using it for Hoisting Purposes, save 66 per cent. on their outlay for other ropes.

Wire Fencing Strand,

For fencing large parcels of land—permanently, economically and expeditiously. Manufactured in any length desired.

Pamphlets containing weight, strength and price, forwarded free application to the Manufacturers.

WIRE SUSPENSION BRIDGES AND AQUEDUCTS

We are prepared to erect, of any span and capacity, and take pleasure in referring those interested to the many structures of this kind built by us in California, Oregon and British Columbia, of span from 200 to 400 feet. 3-3m

Owen's River Canal Company.

CAPITAL STOCK.....$1,000,000

10,000 Shares.....$100 per Share.

A PORTION OF THIS STOCK IS NOW OFFERED TO THE PUBlic, and recommended as an investment.

Full Paid and Unassessable Stock,

Also Assessable Stock, can be obtained of A. J. DOWNER & CO., the authorized Agents of the Company,
406 Montgomery Street.

President.....R. S. WHIGHAM.
Secretary.....W. FISK HITCHCOCK.
Treasurer.....MONTGOMERY GODLEY.
Superintendent.....WILLIAM FLEMING.
Engineer.....J. E. CLAYTON

TRUSTEES:

R. S. WHIGHAM, formerly of Whigham's Mill,.....Nevada City.
WILLIAM FLEMING.....of San Francisco.
SPIER RIDDEL.....Paying Teller of Parrott & Co's.
ISAAC SWAIN.....of A. J. Downer & Co.
WILLIAM P. PRATT.....of Nash & Fogg
Office of the Company 328 Montgomery Street. j1tf

JOHN TAYLOR,

—IMPORTER AND DEALER IN—

Druggists' and Chemists' Glassware,

And a Full Assortment of Assayers' Articles,

—INCLUDING—

Bullion and Assay Ballances, Furnaces, Muffles, Crucibles, Cupels, Acids, Etc., Etc.

Also—A Full Assortment of Reagents.

JOHN TAYLOR,

2-tf 514 Washington St., Up Stairs, San Francisco

SQUARZA'S PUNCH.

FIRST PREMIUM

AT THE SACRAMENTO AGRICULTURAL STATE FAIR FOR THE YEAR 1862.

ALSO; FIRST PREMIUM

At the San Francisco Bay District Agricultural Fair, 1862.

MANUFACTORY, WHOLESALE AND RETAIL,

No. 44 Leidsdorff street, opposite the What Cheer House,

j2-tf San Francisco.

Mining Laws and Forms

JUST PUBLISHED, BY H. H. BANCROFT & CO., BEING A compilation of the Statutes of this State relating to Mining Corporations, Assessments, etc., with a digest of decisions of the Supreme Court and Forms of the Incorporation of Companies. Compiled by H. B. Congdon. 12mo., flexible cloth. $1,50. For sale at all the Bookstores. sep14-tf

To Quartz Miners.

ALL PERSONS INTERESTED IN MINING MACHINERY ARE invited to call at Donahue's Foundry and examine my improved Amalgamator. It is unquestionably superior to anything now known for amalgamating Silver and Gold It works 1000 pounds at a time, and will amalgamate over three tons a day. By the motion of the revolving muller, the pulp is drawn through its centre and passes under it, between the grinding surfaces, to the circumference; from whence it passes again over the muller to the centre, through the holes and between the grinding surface to the circumference as before. Thus a constant circulation of the pulp is kept up, bringing the particles of ore again and again under the muller, and reducing the whole mass to an impalpable powder.

No quicksilver lies between the surfaces to be ground, but at the circumference and centre of the pan where the metal must pass through it as the pulp circulates.

A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S. Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.

sep21

WHEELER'S

Amalgamating and Separating Pans

IT IS ACKNOWLEDGED BY ALL WHO HAVE EXAMINED THE principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.

The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metal arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the triturating, this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.

Where these Pans have been introduced and operated by the side of others on sands from the same vat, the Wheeler Pans have uniformly gained a large percentage of metals, over its competitors, as well as a still larger percentage in the amount of work performed.

*** These Pans may be seen in daily operation at the Miners, Foundry, on First street, San Francisco, where all interested are invited to call and examine for themselves.

no16-tf ZENAS WHEELER.

LLOYD'S NEW AMALGAMATOR

Is a Complete Success.

THE RESULTS OF THE WORK DONE BY IT DURING THE past week are:—From 300 pounds of tailings from Volcano, Amador county, worked for Mr. C. B. Culver, was obtained 6 oz. 12 dwts., equal to $40 to the ton of 2,000 pounds. The original ore was worked by the old Mexican arastra. From 6 0 pounds of tailings, the original ore having been worked by Professor Ryerson's Superheated Steam Machine, was obtained 15¾ ozs., Ryerson's machine having only got 5 ozs. to the ton from the ore.

Result from 50 pounds of ore from Amador county, worked for Mr. H. F. Williams, of Graves & Williams, of the Pacific Fruit Market, in this city, was obtained:

Gold.....$73 33
Silver..... 42

To the Ton.....$73 75

The assay being made by Messrs. Molitor & Co.

From 24 pounds of the same ore, worked for the same party, was obtained:

Gold.....$63 30
Silver..... 04

To the Ton.....$63 34

Assay made by Kellogg, Hewston & Co.

The mine from which the above ore was taken has turned out over $10,000 gold and silver, and the average yield as worked upon the spot, has only been $6 to the ton. Varney's Pan has obtained as high as $ 5 to the ton from this ore—the difference in favor of Lloyd's Amalgamator being over Varney's Pan, $53 54-2 per ton; and over the works at the mill, $62 54.2 per ton. Result from 15 pounds of ore from Queen City Company's claims, El Dorado Canon, Arizona Territory, worked for Mr. T. Mudge, who obtained: Gold, $5.49, Silver, $1.52, amounting to $2.71-100—equal to $361.33-100 to the ton—the assay being made by Messrs. Molitor & Co. Mr. Deetken, at his metallurgical works in this city, obtained by the Varney Pan $ 54 to the ton—the difference in favor of Lloyd being $207.33-100 to the ton.

Result of 68 pounds of ore from the Lady of the Lake Company, Leland Lode, San Francisco District, Arizona Territory, worked for C. W. C. Rowell, was obtained $7.44 in Gold, $0.25 in Silver—$7.69—equal to $2 6.-00. Assay made by Messrs. Molitor & Co. 100 pounds of the same ore, worked by Wheeler's Pan, and assayed by Kellogg, Hewston & Co., yielded $7.58- 00—equal to $111.60 to the ton. Difference in favor of Lloyd being $104.53-100 to the ton. Lloyd's is undoubtedly the best Amalgamator yet introduced, and is certain to supersede all other Amalgamators now in use. Communications for Mr. Lloyd, either for assaying or other machines, can be addressed to the care of Messrs. Kustel Brothers, Metallurgical Works, Bryant street, between Third and Fourth streets, San Francisco. 20v8-3m

Hepburn & Peterson's

AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION OF THE Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos. 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at Kustel Bros. works, Bryant St. etbween 3d and 4th.

[Illustrated in the Mining and Scientific Press, April 9th, 1864.]

nov8 3m* HEPBURN & PETERSON.

GEO. A. METCALF. D. S. HUTCHINSON

METCALF & HUTCHINSON'S

PHOTOGRAPHIC GALLERY,

650 Washington St. Three doors below Kearney, San Francisco.

HAVING REFITTED THE ABOVE ROOMS THE FIRM ARE now prepared to furnish the public with a superior style o Picture, at a lower price than ever before offered in the city.

CARD PICTURES.

As we have every facility for producing these beautiful pictura in all their different varieties, we have reduced the price to

THREE DOLLARS PER DOZEN!

Large sized Photographs $3—Extra copies $1 each.

AMBROTYPES in all Styles and Prices.

OIL PICTURES copied with care and accuracy, in any style desired. Particular attention paid to pictures of children.

Pictures painted in Oil or Water Colors, and retouched in Indian Ink by a competent artist. aug

Ore Bags.

10 000 HAND SEWED GOLD AND SILVER ORE BAGS, 100 lbs each. 15,000 Chicken Gunny Pocket Bags, suitable for Copper Ore, 125 lbs each. For sale in lots, by

REYNOLDS, HOWARD & FORD,

11v8-m 313 and 315 Davis Street, San Francisco

Cortez Gold and Silver Mining Company, Cortez District, Nevada Territory,

NOTICE.—There are delinquent, upon the following described Stock, on account of Assessment levied on the 27th day of April, 1864, the several amounts set opposite the names of the respective Shareholders, as follows :

Names.	No. Certificates.	No. Shares.	Amt.
Blasdel, H G	240	50	$125
Booth, L A	45	100	250
Booth, L A	46	100	250
Booth, L A	47	50	125
Booth, L A	264	50	125
Ball, N A H	66	20	50
Ball, N A H	67	20	50
Ball, N A H	68	20	50
Ball, N A H	69	20	50
Ball, N A H	70	20	50
Ball, N A H	71	10	25
Ball, N A H	72	10	25
Ball, N A H	73	5	12 50
Bee, A W	192	100	250
Bee, A W	193	100	250
Broughton, Alice W	22	2	5
Broughton, Emma C	23	2	5
Blake, Wm P	280	20	50
Blake, Wm P	281	20	50
Blake, Wm P	282	20	50
Blake, Wm P	283	20	50
Blake, Wm P	284	20	50
Collins, John A	253	100	250
Collins, John A	254	25	62 50
Collins, John A	255	25	62 50
Collins, John A	256	17	42 50
Clary, W H	265	25	62 50
Durning, Charles	179	5	12 50
Durning, Charles	180	5	12 50
Durning, Charles	181	5	12 50
Durning, Charles	182	5	12 50
Durning, Charles	293	130	325
Doling, P F	88	50	125
Day, H H	94	50	125
Earl, E M	95	25	62 50
Esrl, E M	96	50	125
Earl, E M	97	100	250
Earl, E M	93	200	500
Eastland, Joseph G	24	25	62 50
Farrell, H	30	125	312 50
Farrell, H	31	125	312 50
Farwell, W B	115	50	125
Ferris, M J	210	25	62 50
Ferris, M J	211	25	62 50
Ferris, M J	212	25	62 50
Ferris, M J	213	25	62 50
Ferris, M J	214	25	62 50
Gsrnett L A	290	166	415
Gordon, John	21	25	62 50
Gordon, John	270	25	62 50
Gordon, John	271	25	62 50
Howard, B C	133	5	12 50
Hathaway B W	6	62	155
Hathaway B W	7	2	5
Ireland, L F	32	25	62 50
Ingols, N L	262	25	62 50
Jones, E J Mrs.	8	25	62 50
Jones, E J Mrs.	261	25	62 50
Jones, E J Mrs,	259	50	125
King, S T	140	10	25
King, S T	141	10	25
King, S T	142	10	25
King, S T	274	50	125
King, S T	275	25	62 50
King, S T	276	25	62 50
Lehmann, Christian	100	5	12 50
Leavitt, John	50	50	125
Leavitt, John	201	50	125
Leavitt, John	202	50	125
Leavitt, John	203	25	62 50
Leavitt, John	204	25	62 50
Leavitt, John	205	25	62 50
Leavitt, John	206	25	62 50
Leonard, E W	277	25	62 50
Merrill, I M	222	250	625
Merrill, I M	223	50	125
Merrill, I M	224	31	77 50
McCurdy, Saml	183	250	500
McCurdy, Saml	184	180	450
Macpherson, A W	289	229	572 50
Moore, M R Mrs	238	200	500
Moore, J Preston	239	50	125
McGinnis, Terry	285	50	125
McGinnis, Terry	286	50	125
McGinnis, Terry	287	50	125
Perkins, R F	20	4	10
Steinbring, Chas	195	18	45
Sprott, Henry	226	10	25
Townsend, T B	99	10	25
Veatch, A A	150	5	12 50
Veatch, A A	151	5	12 50
Veatch, A A	152	5	12 50
Veatch, A A	161	10	25
Veatch, A A	162	10	25
Veatch, A A	163	20	50
Veatch, A A	164	20	50
Veatch, A A	165	20	50
Veatch, A A	166	20	50
Veatch, A A	167	20	50
Veatch, A A	168	20	50
Veatch, A A	169	20	50
Veatch, A A	170	20	50
Vandervoort, J C	268	25	62 50
Vandervoort, J C	269	25	62 50
Ware, William	29	125	312 50
Wilson, James	54	20	50
Wetherbee, H	12	100	250
Wetherbee, H	13	50	125
Wetherbee, H	14	10	25
Wetherbee, H	15	10	25
Wetherbee, H	16	10	25
Wetherbee, H	18	2	5
Wilson, E	251	50	125
Wilson, E	252	24	60
Wilson, E	267	25	62 50
Wilson, Thomas	233	5	12 50
Wilson, Thomas	234	5	12 50

And in accordance with law and an order of the Board of Trustees, made the same date, so many shares of each parcel of said stock as may be necessary, will be sold at the salesroom of Messrs. Jerome Rice & Co., 327 Montgomery Street, San Francisco, on Monday the 20th day of June, 1864, at 12 o'clock M., to pay said delinquent assessments thereon, together with cost of advertising and expenses of the sale.

R. N. VAN BRUNT, Secretary.

23-3t Office, 706 Montgomery street, San Francisco

MINING AND SCIENTIFIC PRESS.—This is one of our most valuable exchanges. It comes to us filled with the most valuable articles, original and selected, upon the subject of mining, and we scissorize it to an awful extent. Every person engaged in mining to any extent, should be a subscriber to the PRESS.—*Golden Gate News.*

Scorpion Silver Mining Company, Virginia District, Nevada Territory.

Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Scorpion Silver Mining Company, there will be sold, at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on SATURDAY, May 28th, 1864, at 11 o'clock A. M. of that day; to the highest bidder, for cash, in U. S. coin, so many shares of the capital stock of said Company, standing in the names of the following shareholders, as will be necessary for the payment of an assessment of twenty-five cents per share, duly levied thereon by the Board of Trustees on the 21st day of March, A. D. 1864, and assessments previous thereto, together with the expenses of advertisement and sale, to wit:

Names.	Shares.	Assessments—No 20	No 21	No 22	No 23	No 24	No 25	Amt due,
B Bayerque	12						$3 00	$3 00
J T Hartwell	16					4 00		4 00
J L Bufford	59				14 75	14 75	14 75	44 25
S F Bufford	24						6 00	6 00
C Bread	10						2 50	2 50
F Beilleau	10			2 50	2 50	2 50	2 50	10 00
Mrs L G Baker	10		2 50	2 50	2 50	2 50	2 50	12 50
S E Barnard	1			25	25	25	25	1 00
Rebecca Bones	4					1 00	1 00	2 00
S L Cotran	20		5 00	5 00	6 00	5 00	5 00	25 00
L Chopard	2				50	50	50	1 50
L E Coleman	2					50	50	1 00
Chas Clayton	5						1 25	1 25
C Chevallier	16				4 00	4 00	4 00	12 00
P Crezet	19						4 75	4 75
W D Dyer	12			3 00	3 00	3 00	3 00	12 00
— Deutsch	3						75	75
M Eldred Jr	115						28 75	28 75
E D Feusier	8			50	50	50	2 00	3 50
H Feusier	4						1 00	1 00
C Gignoux	10						2 50	2 50
F Henderson	228				57 00	57 00	57 00	171 00
H Hentsch	10			2 50	2 50	2 50	2 50	10 00
B A Hendrickson	5						1 25	1 25
J R Hughes	12				3 00	3 00	3 00	9 00
N T Johnson	12			2 50			2 50	5 00
John Kelly	49				6 00	12 25	12 25	30 50
J B Lafargue	2			50	50	50	50	2 00
W W Morgan	2			50	50	50	50	2 00
John McKewen	9						2 25	2 25
John Paline	3	75	75	76	75	75	75	4 50
Emeline A Paine	3	75	75	76	75	75	75	4 50
M Pratt	2						50	50
P Robinson	100						25 00	25 00
Robt Sherwood	200						50 00	50 00
Herman Smith	10						2 50	2 50
Emma E Scheper	1						25	25
Henry Vellers	5						1 25	1 25
E D Waters	12						3 00	3 00
Eliza A Waters	12						3 00	3 00
Ella Waters	1						25	25

By order of the Trustees. W. H. MARTIN, Secretary.
San Francisco, April 28, 1864. 627 Clay street.

The above sale is postponed until SATURDAY, June 11th, 1864, at same hour and place as above mentioned. By order of the Trustees. W. H. MARTIN, Secretary.

22-td No. 627 Clay street, San Francisco.

The above sale is postponed until SATURDAY, June 18th, 1864, at same hour and place as above mentioned. By order of the Trustees. WM. H. MARTIN, Secretary.

24-td No. 627 Clay street.

Wilson Gold and Silver Mining Company.--Location, Echo District, Humboldt county, Nevada Territory.

NOTICE.—There are delinquent, upon the following described stock, on account of Assessments duly levied by order of the Board of Trustees, on the first day of October, 1863, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amt.
H. G. Blasdell	not issued	300	$300 00
J. W. File	not issued	300	300 00
Abner Wade	17, 18, 19, 20, 21, of 20 shs each.	100	100 00
Abner Wade	23, 24, 25, of 10 shs each.	30	30 00
Abner Wade	26, 27, of 5 shs each.	10	10 00
I. N. Theriue	not issued	75	75 00
Robt. J. Fulton	1, 2. 3. 4, 5, of 10 shs each.	50	50 00
Robt. J. Fulton	6, 7, 8, 9, of 25 shs each.	100	100 00
E. C. Palmer	33	bal due on 37½	28 15
C. A. Ubrig	47	37½	37 50
Thomas Mulcahy	32	5	5 00
Arthur Haine	36	12	12 00
John Pullee	101	10	10 00
D. P. Winne	102, 103, of 25 shs each.	50	50 00
Edward A. Morse	110	10	10 00
H. F. Nottleton	61, 62, 63, 64, 65, of 10 shs each.	50	50 00
J. C. Hanson	79, 80, 81, 82, of 50 shs each.	200	200 00
C. M. Batcheider	10	10	10 00
Mrs. E. W. Carey	11	10	10 00
Emma Pattcu	13	10	10 00
John Brennan	14	10	10 00
Mrs. E. A. Baxter	15	10	10 00
D. H. Kinsey	16	20	20 00
John C. Ing	53	10	10 00
R. G. Carlyle		50	50 00
S. Tyler		120	120 00
B. C. Whitman	75, 76, 77, of 25 shs each.	bal due on 75	40 00

Therefore, in accordance with law, and an order of the Board of Trustees, made on the 2d day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on SATURDAY, July 2d, 1864, at 12 o'clock M., of said day, to pay said delinquent assessments (one dollar per share) thereon, together with costs of advertisement and expenses of the sale.

J. F. MILLER, Secretary.

Office, No. 416 Washington street, San Francisco.

N. B.—Payments may be made at any time before the 29th day of June, to A. GAUCHAT, at the mine, or to the Secretary, at his office in San Francisco. (21-4t) J. F. MILLER, Secretary.

North Star Mining Company, Santa Catalina Island, California.

NOTICE.—There are delinquent, upon the following described Stock, on account of assessments levied, on the 27th day of January, 1864, the several amounts set opposite the names of the respective Shareholders as follows, to wit :

Names.	No. Certif.	No. Shares.	Amt.
C H Taft	not issued	144	$21 60
J D Nichols	29	144	bal. 10 47
P Ide	74	133	bal. 12 03
I M Merrill	not issued	144	21 60
S G Gardner	not issued	144	21 60
W Diggins	not issued	144	bal. 16 69
Hicks & Carson	52, 53, 54, 55	144	bal. 17 55
Wm J. Woodley	101	75	bal. 18 23
Henry Bush	not issued	144	bal. 21 60
Henry Bush	First assessment levied Jan. 2		14 40

And in accordance with law, and an order of the Board of Trustees, made on the 31st day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the office of the Secretary, on Wednesday, the 6th day of July, at 12 o'clock, M., to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

A. O. WOOD, Secretary.

23-4t 240 Montgomery street, No. 4, 2d floor, San Francisco.

For Sending East, no more valuable or appropriate publication can be selected than the MINING AND SCIENTIFIC PRESS. For sale by the principal newsagents.

Wide West Copper Mining Company, Copper Canon, Calaveras County, State of California.

NOTICE.—There are delinquent, upon the following described stock, on account of assessments levied on Dec. 12th 1863, and March 26th 1864, the several amounts set opposite the names of the respective shareholders, as follows :

Assessment No. 1,

Names.	No. Cert.	No. Shares.	Amt.
Bateman A.	114	119	$29 75

Assessment No 2, Levied Dec. 12th, 1863.

Bateman, A.	114	119	29 75
Logan, James	67	150	37 50
Geddes, W. H.	85	50	12 50
Geddes, W. H.	86	50	12 50
Geddes, W. H.	87	25	6 25
Geddes, W. H.	88	25	6 25

Assessment No. 3, Levied March 26th 1864.

Logan, James	67	150	45 00
Geddes, W. H.	85	50	15 00
Geddes, W. H.	86	50	15 00
Geddes W. H.	87	25	7 50
Geddes, W. H.	88	25	7 50
Tilley, W. J.	6	50	15 00
Tilley, W. J.	7	50	15 00
Tilley, W. J.	8	50	15 00
Isaacs, A. C.	10	37	11 10
Felton, H. T.	20	10	3 00
Felton, H. T.	21	10	3 00
Felton, H. T.	81	10	3 00
Felton, H. T.	82	10	3 00
Rawten, J. A.	27	10	3 00
Rawson, J. A.	28	5	1 50
Rawsen, J. A.	47	5	1 50
Otis, Stephen	39	150	45 00
Otis, Stephen	74	150	45 00
Otis, Stephen	84	40	12 00
Martin, E. P.	64	150	45 00
Greeuman, L. B.	80	10	3 00
Lipe, Seber	89	10	3 00
Bateman, A.	114	119	35 70
Linsey, E. W.	109	10	3 00

And in accordance with law, and an order of the Board of Trustees made on the 24th day of May, 1864, so many Shares of each parcel of said Stock as may be necessary, will be Sold at Jerome Rice & Co's., 327 Montgomery street, on the 13th day of June, 1864, at the hour of 10 o'clock, A. M., of said day, to pay said delinquent Assessment thereon, together with costs of Advertising and expenses of the Sale. M. G. ELMORE, Secretary.

Office, 645 Clay street, San Francisco. 22-2t

The above sale is postponed until Tuesday, June 21st, 1864, at the same hour and place. By order of the Board of Trustees.

24-2t M. G. LMORE, Secretary.

Noonday Copper Gold & Silver Mining Company, Clayton District, Contra Costa County California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 5th day of May, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certifs.	No. Shares.	Amt.
W G Wendall	11	50	$10 00
E C Skinner	12	50	10 00
E C Skinner	13	100	20 00
S J Tennant	24	50	10 00
S J Tennant	25	50	10 00
S J Tennant	26	50	10 00
S J Tennant	27	50	10 00
Orin Swan	32	100	20 00
Eban Jordan	34	20	4 00
Nicholas Larbig	49	50	10 00
E B Mastick	67	200	40 00
P Q Vroom	79	50	10 00
John Taylor	Cert. not issued	200	40 00
John Moul	140	25	5 00
John Moul	141	50	10 00
Nancy Patterson	136	100	20 00
Henry Williamson	124	100	20 00
F A Brewer	121	2	40
Michael Butler	119	25	5 00
Caleb Morgan	118	25	5 00
G W Morgan	104	13	2 60
G W Morgan	103	12	2 40
Nicholas Larbig	50	50	10 00

And in accordance with law, and an order of the Board of Trustees, made on the 5th day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on the 22d day of June, 1864, at the hour of 11 o'clock A. M., of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

L. E. MORGAN, Secretary.

Office, N. E. corner of Bush and Kearny streets, San Francisco.
San Francisco, June 4th, 1864. 23-3t

POSTPONEMENT.—The above sale is hereby postponed until Monday June 27, 1864, at the same hour and place. By order of the Board of Trustees. L. E. MORGAN, Secretary.

June 10th, 1864. 25-2t

Refugio Mining Company, Jesus Maria, Chihuahua, Mexico.

Notice, there are delinquent, upon the following described Stock, on account of Assessment levied on the 18th of November, 1863, and the 9th day of February, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shs.	Am't
Assessment No. 1.			
Davidson, L	100	50	$500 00
Martin, A	101	20	200 00
Assessment No. 2.			
Campbell, Robt	3, 93, 94, 169	53	$530 00
Cahill, Ed	13	10	100 00
Burstell, J. M	22, 70, 85, 86, 89, 138, 142, 7	92	920 00
Davidson, L	100, 160	72	720 00
Eastman, C. A	105	100	1000 00
Martin, A	101, 161	24	240 00
Malloy, John	88, 91	25	250 00
McKean, A. C	114, 123	6	60 00
Mowry, Sylvester	16	63	630 00
Smyth, C. F	40, 87, 150	50	500 00
Webb, C. H	155	50	500 00

And in accordance with law, and an order of the Board of Trustees made on the 18th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at public auction at the salesroom of Jerome Rice & Co., No. 327 Montgomery Street, on the 21st day of June, 1864, at the hour of 12 o'clock, M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

COLL DEANE, Secretary.

21-4t Office, Odd Fellows Hall, Montgomery st., San Francisco.

POSTPONEMENT.—The above sale is postponed to the 28th day of June, 1864, at the same hour and place. By order of the Board of Trustees. COLL DEANE, Secretary.

24 3t San Francisco, June 7th, 1864.

Royal Eagle and Cliff Gold and Silver Mining Company, Gold Hill Mining District, Storey county, Nevada Territory. —Office No. 403 Washington street, San Francisco.

Notice is hereby given, that, in accordance with an order duly made by the Board of Trustees of the Royal Eagle and Cliff Gold and Silver Mining Company, there will be sold, at Public Auction, by Jerome Rice & Co., at their salesrooms, No. 327 Montgomery street, San Francisco, on WEDNESDAY, June 15, 1864, at 12 o'clock M. to the highest bidder, for cash, in U. S. gold coin, so many shares of the capital stock of the said Company, standing in the names of the hereinafter mentioned stockholders, as will be necessary to pay all assessments now delinquent thereon, together with cost of advertising and all accruing charges, unless previously paid:

Stockholders.	No. Asst.	No. Certificate.	Shares.	Amt.
Cesar Boch	3 and 4	10, 12, 16, 17	30	$45 00
A. Levy	3 and 4	8	5	7 50
L. Levy	3 and 4	23	5	7 50
C. Kornfield	3 and 4	96, 199	33	49 50
P. E. P. Davan	3 and 4	181, 182, 189, 190, 191	103	154 50
Piere Thiebaut	4	31, 33, 34, 118	30½	31 00
C. Mery	4	39, 116, 148	18	18 00
Dominiqae Coutin	4	40, 112	12	12 00
Champel Resi	4	41, 94, 95, 138	30	30 00
F. X. Villa	3 and 4	111, 112, 113	15	22 50
Marie Courier	3 and 4	44	10	15 00
J. Lamolle	4	52	15	15 00
B. Lamolle	4	53	12	12 00
E. Ward	2, 3 and 4	54	5	12 50
J. Mayer	4	55	15	15 00
A. Carre	4	57, 149	13	13 00
Rene Gourdon	3 and 4	62, 63	50	75 00
Alexis Leroux	3 and 4	68	5	7 50
John Delbo	3 and 4	76	25	37 50
A. Relso	4	80	25	25 00
H. Haricourt	3 and 4	84	8	12 00
Cordes Bertrand	3 and 4	85	17	25 50
Wm. Remy	3 and 4	101, 102	25	37 50
H. Bone	3 and 4	—	7	10 50
J. Larlsilli	4	119	25	25 00
H. Van Every	3 and 4	139	20	30 00
J. Filliot	2, 3 and 4	—	5	12 50
J. H. Viexler	3 and 4	—	22	33 00
A. Gatlicker	3 and 4	—	25	37 50
A. Secretan	3 and 4	—	5	7 50
L. Noel	3 and 4	—	101	150 00
J. Carroll	2, 3 and 4	194	10	15 00
C. Duval	3 and 4	193	25	37 50
J. Austino	1, 2, 3 and 4	—	25	135 00
Victor Ansous	3 and 4	185	10	15 00
Caroline Petelin	2, 3 and 4	110	10	25 00
Alfred Turrel	3 and 4	140	10	15 00
Marie V. Houreade	3 and 4	142	5	7 50
Caroline Goux	3 and 4	143, 168	8	12 00
F. J. Minot	3 and 4	144, 167	12	18 00
Napoleon Denis	4	165	10	10 00
Cazeux & Collins	3 and 4	164	5	7 50
C. Aquillon	3 and 4	152	15	22 50
J. P. Cassady	4	162	10	10 00
L. M. Ontray	3 and 4	170	5	7 50
J. Mandot	3 and 4	183	25	37 50
D. Blanrel	4	186	10	10 00
John Dalmas	4	184	25	25 00
F. Roncati	3 and 4	195	15	22 50
M. Burnet	3 and 4	196	10	15 00
Th. Thiele	3 and 4	200	20	30 00
W. R. Maurice	3 and 4	201	15	22 50

By order of the Board of Trustees.

ARNAVON, Secretary.

21-5t San Francisco, May 14th, 1864.

By order of the Board of Trustees the above sale is postponed nn till Tuesday next the 22d inst, at 12 o'clock, A. M., at the same place.

25-2t

United States Gold and Silver Mining Company.— Mine located in Lander county, Nevada Territory.

Notice.—There are delinquent upon the following described stock, on account of Assessment No. 1, levied December 23d, 1863, of $24 per original share, and Assessment No. 2, levied February 6th, 1864, of $40 per original share, the several amounts set opposite the names of the respective shareholders, as follows:

ASSESSMENT NUMBER ONE.

Names.	No. Feet.	Amount.
E Lashier,	400—stock not issued	$12 00
J S Schuster,	332—stock not issued	9 96
George Baumer,	334 stock not issued	10 02
Henry Schutz,	334—stock not issued	10 02
D B James,	100—stock not issued	8 00
D Tourtellotts.	200—stock not issued	6 00

ASSESSMENT NUMBER TWO.

Fisher M Clarke,	400—stock not issued	20 00
F Lashier,	400—stock not issued	20 00
R R Fuller	334—stock not issued	16 70
J S Schuster.	332—stock not issued	16 70
George Baumer,	334—stock not issued	16 70
Henry Schutz,	334—stock not issued	16 70
D B James,	100—stock not issued	5 00
D Tourtellotta,	200—stock not issued	10 00

And in accordance with law, and an order of the Board of Trustees, made on the twentieth day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the auction rooms of John Middleton & Son, No. 400 Montgomery street, San Francisco, on MONDAY, the 20th day of June next, at 12 o'clock M. of said day, to pay the delinquent assessments thereon, together with costs of advertising and expenses of the sale.

T. L. BIBBINS, Secretary.

Office, No. 302 Montgomery street, San Francisco.

San Francisco, May 20th, 1864. 21-tf

St. Lawrence Gold and Silver Mining Company. Location, Inyo District, Tulare County, California.

Notice.—There is delinquent upon the following described stock on account of assessments duly levied by order of the Board of Trustees of the above named Company, on the 30th day of October, 1863, the several amounts set opposite the names of respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amt.
Ames Arnold	150	20	$10 00
Martin J. Burk	182	19	9 50
Allen Caswell	183	61 Bal due	19 75
A. Holbub	26	39	19 50
B. McCarty	188	39	19 50
Geo. W. Paget	8	5	2 50
D. C. Noreross	142	6	3 00
D C. Noreross	not issued	20	10 00
P J. O'Connor	140	39	19 50
Chas. Rice	48	2	1 00
Susan L. Lott	49	5	2 50
H. P. Williams	151	19	9 50
Mary T. Rice	99	2	1 00
Elenor J. Lott	101	9	4 50
Elen J. Lott	102	2	1 00
H. S. Wheeler	87	10	5 00
J. W. O'Brien	120	1	50

And in accordance with law, and an order of the Board of Trustees made on the 24th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on Wednesday, July 6th, 1864, at 12 o'clock M., of said day, to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

J. F. MILLER, Secretary.

Office, No. 416 Washington street, San Francisco.

Itasca Silver Mining Company, Kelly Ledge, Reese River District, Lander county, N. T.

Notice.—There is delinquent upon the following described stock on account of assessment levied on the 4th day of May, 1864, the several amounts set opposite the names of the respective share holders, as follows:

Names.	No. Certif.	No. Shares.	Amt.
Alexander, J D	52	0½	bal. $1 50
Alexander, J D	53	30	bal. 7 50
Alexander, J D	54	24	bal. 6 00
Bergson, Ole	95	25	bal. 6 25
Bergson, Ole	96	25	bal. 6 25
Bergson, Ole	97	0	bal. 2 25
Butterfield, R	70	20	bal. 7 00
Butterfield, R	77	20	bal. 5 00
Butterfield, R	78	10	bal. 2 50
Butler, Mary	130	5	bal. 1 25
Connor, P	not issued	100	bal. 35 00
Clark, H W	152	7¼	bal. 1 95
Carle A J	165	140	bal. 49 00
Carle, A J	166	50	bal. 17 50
Dwyer, David	182	5	bal. 1 25
Forster, Peter B	38	10	bal. 3 50
Forster, Peter B	39	10	bal. 3 50
Forster, Peter B	40	5	bal. 1 75
Forster Peter B	90	100	bal. 35 00
Forster, Peter B	91	50	bal. 17 50
Forster, Peter B	92	25	bal. 8 75
Gardner, S C	172	10	bal. 2 50
Gardner, S C	173	20	bal. 5 00
Gardner, S C	174	20	bal. 5 00
Gardner, S C	175	20	bal. 5 00
Gardner, S C	176	20	bal. 5 00
Gardner, S C	177	17½	bal. 4 37
Gartner, N	57	100	bal. 35 00
Gartner, N.	58	25	bal. 8 75
Gartner, N	59	25	bal. 8 75
Gartner, N	60	25	bal. 8 75
Gartner, N	81	25	bal. 8 74
Greene, Edmund	121	10	bal. 3 50
Howes, E F	151	10	bal. 2 50
Leonard, E A	not issued	185	88 00
Lovely, Noble	41	100	bal. 35 00
Lovely, Noblo	42	50	bal. 17 50
Lovely, Noble	43	50	bal. 17 50
McKenzie, Alex	207	5	bal. 1 25
McCarthy, T	102	25	bal. 8 75
McCarthy, T	103	50	bal. 17 50
McCarthy, T	104	5	bal. 1 75
McCarthy, T	105	10	bal. 3 50
McCarthy, T	108	10	bal 3 50
McCarthy, T	107	25	bal. 8 75
McCarthy, T	108	25	bal. 8 75
McCarthy, T	109	25	bal. 8 75
McCarthy, T	110	25	bal. 8 75
Morey, W R	194	25	bal. 5 00
Marshall, H H	206	5	bal. 1 25
Pool, Chas W	214	10	bal. 2 50
Peabody, Joseph A	111	25	10 00
Randall, A G	80	50	bal. 17 50
Randall, A G	81	50	bal. 17 50
Randall, A G	82	50	bal. 17 50
Randall, A G	83	25	bal. 8 75
Randall, A G	84	20	bal. 7 00
Saxe, E A	179	10	bal. 2 50
Saxe, E A	193	20	bal 5 00
Thurber, Martin	210	25	bal. 6 25
Tibbey, E S	55	20	bal. 5 00
Tibbey, E S	58	3	bal. 75
Thurber, Alf	not issued	50	20 00
West, C J	not issued	150	60 00
Webb, C C	181	40	bal. 10 00

And in accordance with law, and an order of the Board of Trustees, made on the 4th day of May, 1864, so many shares of each parcel of said Stock as may be necessary, will be sold at the salesroom of Jerome Rice & Co., on Wednesday, the 22d day of June, 1864, at the hour of 11 o'clock, A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

EDW. QUACKENBUSH Sec'y.

Office, No. 11, Government House, corner Sansome and Washington Streets. 23-3t

Rose Matilda Mining Company, Santa Catalina Island, California.

Notice.—There is delinquent upon the following described stock, on account of assessments levied on the 27th day of January, 1864, the several amounts set opposite the names of the respective shareholders, as follows, to wit:

Names.	No. Certf.	No. Shares.	Amt.
C H Taft	not issued	136	$20 40
J D Nichols	32	108	bal. 0 27
P Ide	75	105	bal. 10 88
I M Merrill	not issued	136	20 40
S C Gardner	not issued	136	20 40
W Diggins	not issued	108	bal. 15 40
Hicks & Carson	55 58 57 58	138	bal. 16 35
Wm J Woodley	105	50	bal. 6 97
Henry Bush	not issued	136	20 40
Henry Bush	First assmt. levied Jan'y 2nd		13 60

And in accordance with law, and an order of the Board of Trustees, made on the 31st day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the office of the Secretary, on Wednesday, the 6th day of July, 1864, at 12, M., to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

A. G. WOOD, Secretary.

23-4t 240 Montgomery street, No. 4, 2d floor.

Orient Gold and Silver Mining Company. Location, Inyo District, Tulare County, California.

Notice.—There is delinquent upon the following described stock, on account of assessments of fifty cents per share, duly levied by order of the Board of Trustees of the above named Company, on the 30th day of October, 1863, the several amounts set opposite the names of respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amt.
E A Atwood	133	20	$10 00
John Albert	not issued	4	7 00
Allen Caswell	1	10	5 00
Allen Caswell	157	15	7 50
Allen Caswell	175	68	34 00
D C Noroross	not issued	33	16 50
D M Raudall	not issued	32	16 00

And in accordance with law, and an order of the Board of Trustees, made on the 24th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the sales room of Jerome Rice & Co., No. 327, Montgomery street San Francisco on Wednesday, July 6th, 1864, at 12 o'clock, M., of said day, to pay said delinquent assessment thereon, together with costs of Advertising and expenses of the Sale.

J. F. MILLER, Secretary.

22-4t Office, 416 Washington Street, San Francisco.

Adelaide Consolidated Silver Mining Company, Colorado District, El Dorado Canon, Territory of Arizona. Office, 620, Washington street San Francisco.

Notice is hereby given that in accordance with the laws of the State of California, and in pursuance of an order of the Board of Trustees of the Adelaide Consolidated Silver Mining Company, duly made, May 23d 1864, there will be sold at auction at the office of said company, on the 27th day of June 1864, at 2 o'clock, P. M., to the highest bidder for cash in U. S. coin, so many shares of the capital stock of the company standing in the names of the following parties, as may be necessary to pay assessment No. 2 and 3 of fifty cents each, and levied by the Board of Trustees, August 27th, 1863, and December 12th, 1863, and, also, balances and other dues as specified herewith, together with all charges accruing from advertising and sale, unless all such dues are previously paid to the Secretary,

Names	Ass't.	No. Certif.	Shares.	Amt.
F A Burch,	2 and 3	20	15	$15 00
F A Burch,	2 and 3	33	7½	7 50
F A Burch,	2 and 3	35	50	50 00
F A Barch,	2 and 3	36	25	25 00
F A Burch,	2 and 3	103	12	12 00
J S Fitzgerald,	2 and 3	137	50	50 00
J S Fitzgerald,	2 and 3	140	20	20 00
J S Fitzgerald,	2 and 3	141	20	20 00
J S Fitzgerald,	2 and 3	142	20	20 00
J S Fitzgerald,	2 and 3	143	20	20 00
J S Fitzgerald,	2 and 3	144	10	10 00
J S Fitzgerald,	2 and 3	145	10	10 00
J S Fitzgerald,	2 and 3	146	10	10 00
S Fitzgerald,	2 and 3	148	50	50 00
S Fitzgerald,	2 and 3	149	50	50 00
S Fitzgerald,	2 and 3	150	20	20 00
S Fitzgerald,	2 and 3	151	20	20 00
S Fitzgerald,	2 and 3	152	20	20 00
S Fitzgerald,	2 and 3	153	20	20 00
S Fitzgerald,	2 and 3	181	4	4 00
S Fitzgerald,	2 and 3	155	10	10 00
S Fitzgerald,	3	158	10	5 00
Charles Hamilton,	2 and 3	89	50	50 00
Charles Hamilton,	2 and 3	04	10	10 00
Charles Hamilton,	2 and 3	08	20	20 00
Charles Hamilton,	2 and 3	227	5	5 00
Charles Hamilton,	2 and 3	217	5	5 00
Charles Hamilton,	2 and 3	218	5	5 00
Charles Hamilton,	2 and 3	219	10	10 00
Charles Hamilton,	2 and 3	220	10	10 00
Charles Hamilton,	2 and 3	222	10	10 00
L B Wooster,	3	113	5	5 00
Joseph Eustis,	2 and 3	106	20	20 00
David Temple,	2 and 3	215	15	15 00
M D Fairchild,	3	104	13	7 50
John Hume,	2 and 3	64	12½	12 50
Frederic Hall,	3	53	20	10 00
R B Wilson,	3	108	10	5 00

22t4 RODNEY CLARK, Sec'y.

Charter Oak Mining Company, Santa Catalina Island, California.

Notice.—There is delinquent upon the following described stock on account of assessments levied on the 27th day of January, 1864, the several amounts set opposite the names of the respective shareholders, as follows, to wit:—

Names.	No. Certif.	No. Shares.	Amt.
C H Taft	not issued	96	$14 40
J D Nichols	25	86 bal	3 27
P Ide	61	91 bal	4 87
I M Merrill	not issued	96	14 40
S C Gardner	not issued	96	14 40
W Diggins	not issued	96 bal	9 40
Hicks & Carson	45, 44, 46	46 bal	10 34
Wm J Woodley	89	60 bal	8 23
Henry Bush	not issued	96	14 40
Henry Bush	first assmt levied Jany 2d		9 60

And in accordance with law, and an order of the Board of Trustees made on the 31st day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold at the office of the Secretary, on Wednesday, the 6th day of July, 1864, at 12 o'clock M. to pay said delinquent assessments theron, together with costs of advertising and expenses of sale.

A. G. WOOD, Secretary.

23-4t 240 Montgomery St., No. 4, 2d. Floor.

Diamond Mining Company, Santa Catalina Island, California.

Notice.—There is delinquent upon the following described stock, on account of assessment levied on the 27th day of January, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amt.
C H Taft	not issued	88	$13 20
J D Nichols,	22	88 bal	2 08
P Ide,	55	83 bal	3 88
J M Merrill,	not issued	88	13 20
S C Gardner,	not issued	88	13 20
W Diggings,	not issued	88 bal	8 20
Hicks & Carson,	40, 41, 42	88 bal	9 15
Wm J Woodley,	78	60 bal	1 23
Henry Bush,	not issued	88	13 20
Henry Bush,	first assessment, levied Jan. 2, 1864,		8 80

And in accordance with law, and an order of the Board of Trustees, made on the 31st day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the office of the Secretary, on WEDNESDAY, the 6th day of July, 1864, at 12 o'clock, M., to pay said delinquent assessments thereon, together with costs of advertising and expenses of sale.

(23-4t) A. G. WOOD, Secretary.

Office, 240 Montgomery street, No. 4, 2 dfloor, San Francisco.

Agamemnon Gold and Silver Mining Company. Location, Inyo District, Tulare County, California.

Notice.—There is delinquent upon the following described stock on account of assessments of twenty-five cents per share duly levied by order of the Board of Trustees of the above named Company, on the 30th day of October 1863, the several amounts opposite the names of respective shareholders, as follows:

Names.	No. Certificate.	No. Sbares.	Amt.
Allen Caswell,	1	10	$2 50
Allen Caswell	158	70	17 50
Allen Caswell	not issued	1	25
D. C. Norcross	not issued	19	4 75
P. M. Randall	not issued	29	7 25

And in accordance with law, and an orderof the Board of Trustees made on the 24th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on Wednesday, July 6th, 1864, at 12 o'clock, M., of said day, to pay said delinquent assessments, together with the costs of advertising and expenses of the sale.

J. F. MILLER, Secretary.

Office, No. 416, Washington street, San Francisco. 22-4t

Mechanical.

A GREAT INDUSTRIAL FAIR!

—TO BE—

Opened in San Francisco,

—ON—

THE 30TH OF AUGUST, 1864.

THE MECHANICS' INSTITUTE OF SAN FRANCISCO ARE preparing for an Exhibition of Arts, Inventions, Manufactures of Industry in general, upon a scale more grand, attractive and useful than ever before seen upon the Pacific Coast. Their Pavilion, built for the purpose, will occupy one of the city plazas, and will contain every convenience and appliance for an effective display. The Institute appeals to all persons within the scope of its influence, who are engaged in different branches of industry and art, to prepare and forward for Exhibition such articles as they, may invent, discover, or make, that are useful, instructive, curious, or suggestive. There is scarcely an occupation in life that cannot supply some article that can be so considered, and by their public exhibition they may start the genius of invention in some other branch of industry or skill, the successful development of which may greatly enrich the State. The premiums and published reports of the Exhibition will widely advertise their qualities and merits.

Each age and country has new wants, which the progress of civilization creates and ingenuity gratifies. Those of our own day and section are improved methods and machinery for reducing ores of the precious metals. A striking feature of the Exhibition will be the number and variety of these, worked by the inventors. It is hoped that information most useful to the mining interest will be elicited. Miners are invited to send ores for exhibition, and trial, in quantities sufficient to be worked seperately in the different machines, in order to test both the relative merits of the machines and the value of the respective metallic veins.

The various transportation companies of the Pacific states and territories will, with commendable liberality, transport all articles intended exclusively for exhibition, free of charge, and Wells, Fargo & Co., in like manner, will take charge of them.

All articles forwarded should be labeled—"For the Industrial Fair," and be directed to C. B. Porter, agent.

Regulations for the Exhibition.

1—Persons intending to take part in the Exhibition are requested to make known their intention at the earliest practicable period, stating the kind of article or articles they intend to exhibit, and the probable amount of space required therefor.

2—The Pavilion will be open for the reception of articles for exhibition on Monday, the 22d day of August, and will continue open for that purpose until Monday, the 29th. The Exhibition will open to the public on Tuesday, the 30th day of August.

3—The name of every article should be attached to it; also a description pointing out its merits, when thought desirable by the exhibitor.

4—When articles are entered, a check for the same will be given, which must be presented and surrendered when the articles are withdrawn.

5—Articles intended for sale will be labelled accordingly, but cannot be removed until the close of the Exhibition, except by the written permission of the President.

6—Light, fancy or perishable articles will be received, or may be removed, at any time during the Exhibition, with the consent of the President.

7—All articles deposited will be at the risk of the owners, who are invited to be present during the hours of Exhibition. In the intervals efficient measures will be taken for the protection of property.

8—On the day following the opening of the Exhibition, each class of exhibitors will meet to choose, by ballot, their own Committees of Award; failing in this for one week, Judges will be appointed by the Executive Committee. The Executive Committee will award premiums for such articles as the several judges shall decide to be worthy of the same. The premiums will be delivered as soon as they can be prepared.

9—The morning of each day, until 9 o'clock, will be appropriated to the judges, and visitors will not be admitted during that time.

10—In case of misunderstanding, application may be made to the Executive Committee, who will be at all times in attendance.

11—Steam power will be provided, that machinery of all kinds may be seen in operation; and every possible facility will be given to exhibit all working machinery to the best advantage.

12—Exhibitors or their agents will receive free tickets of admission when, in the opinion of the President, the articles exhibited by them have such value, interest, or merit as to deserve it; but the transfer of any such tickets will work a forfeit of the privileges conferred by them.

13—All communications to be addressed to WILLIAM PATTON, Corresponding Secretary.

Executive Committee.

JOSEPH BRITTON,	A. S. HALLIDIE.
H. D. DUNN,	P. B. DEXTER,
E. NUNAN,	P. J. O'CONNOR,
W. H. KNIGHT,	C. R. STEIGER,
E. N. TORRY,	W. H. BRYAN,
H. F. WILLIAMS,	J. A. PRITCHARD.

19-tf

IMPROVED WATER-WHEEL,

—PATENTED BY—

John Tyler, West Lebanon, N. H.

GIVING THE MAXIMUM POWER WITH THE MINIMUN COST—HAVING THE FOLLOWING AS SOME OF ITS ADVANTAGES OVER OTHERS—GIVING THE BEST PER CENTAGE OF WATER USED, DURABILITY.

It runs Equally as well IN Back Water as OUT.

IT IS ADAPTED TO HIGH HEADS OR LOW—IT IS NOT LIABLE to get out of repair—It can be put to running by any Machinist in a very short time—It is the steadiest running and easiest regulated wheel in use—There are now some 600 of them in use in the United States and Canadas, running under all heads, from 4 to 80 feet, and giving universal satisfaction. Address

SMITH & HANSCOM,

15v8-3m Golden State Iron Works, San Francisco.

Rock Drilling Machines.

HAND AND POWER ROCK DRILLING MACHINES, FOR SALE AT 25 PER CENT LESS THAN IMPORTATION PRICES, TO PEREMPTORILY CLOSE OUT THE ENTIRE STOCK.

Also, Second hand Presses as follows: One Hydraulic Press; One Screw Standing Press; One Lithographic Press. The above presses are all in good order. WM. W. DUNN.

19-1m No. 9, First Street, San Francisco.

LEANDER RANSOM,

Civil Engineer and Surveyor,

HAVING BEEN CONNECTED WITH THE PUBLIC WORKS OF the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. Also

State Locating Agent,

AND AS SUCH HAVING THE SALE OF

600,000 Acres of State School Lands.

At the low price of $1,25 per Acre.

TERMS—Twenty per cent in cash and the balance on a credit of several years.

oc7-tf Office, 323 Montgomery streets.

REYNOLD'S

Patent Cut-Off and Governor,

For Steam Engines.

127 of these Invaluable Machines

ARE NOW IN USE

In California and Nevada Territory, giving a perfectly regular motion and

Saving 20 to 75 per cent of the Fuel.

Steen's Improved Governor

IS THE CHEAPEST, SIMPLEST AND QUICKEST TO ACT AND least liable to get out of order of any Governor in use. It can be seen in operation at the Golden State Iron Works, at the Stone Breaker, foot of Montgomery Street and at the Sugar Refinery, 8th Street, San Francisco.

Steam Engines, Boilers, Pipes,

Hydraulic Presses, Shafting, Pulleys, Etc., Etc., bought and sold the best market rates.

Anti-Incrustation Powder,

A sure remedy for Scale in Steam Boilers, without injury to the Iron. In use for the past EIGHT years.

☞ MACHINERY MADE AND REPAIRED. ☜

—REFER TO—

Sugar Refinery, San Francisco,
Cottell & Co., San Jose,
L. A. Booth, Esq., Virginia City,
And 2,000 others in the United States.

E. T. STEEN.

1-tf Nos. 37 & 39 Fremont Street and 42 & 44 Beal Street.

MINERS' FOUNDRY

—AND—

MACHINE WORKS,

First street, between Howard and Folsom streets,

SAN FRANCISCO.

EVERY DESCRIPTION OF IRON AND BRASS MACHINERY, the **Best** and **Most Economical**, manufactured in the State of California, will be furnished with dispatch at the Miners' Foundry and Machine Works, as:

Steam Engines and Boilers, Flour, Saw and Quartz mill machinery Mining Pumps, Amalgamators, Retorts, Etc., Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections, designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities will be afforded ample facilities, free of cost.

All parties desiring accurate and highly finished drawings and Superior Machinery, at most reasonable rates are cordially invited to call before contracting elsewhere.

tf. HOWLAND, ANGEL & KINO.

PACIFIC IRON WORKS,

First street, between Mission and Howard streets,

SAN FRANCISCO.

GODDARD & COMPANY,

—MANUFACTURERS OF—

STEAM ENGINES & BOILERS,

QUARTZ, FLOUR, SAW AND SUGAR MILLS,

AMALGAMATING PANS AND BARRELS, MINING PUMPS AND HOISTING GEAR, WATER WHEELS,

And Machinery of Every Description.

Also furnish all kinds of Iron and Brass Casting. Only Manufacturers of the celebrated Bryan Battery. 14-tf

THE ATLAS IRON WORKS,

No. 24 & 26 Fremont Street.

—MANUFACTURE—

STEAM ENGINES, MINING MACHINERY, QUARTZ MILLS, MINING PUMPS, AMALGAMATORS, AND ALL OTHER KINDS OF MACHINERY FOR MINING OR MILLING PURPOSES.

Castings of all kinds,

Furnished. Our new and complete arrangments will enable us to do this kind of work in a superior manner and on the shortest notice.

Steam Engines of Scott's Patent,

Can be furnished of any size, and of high or low pressure. These Engines combine so many points of decided improvement in their simplicity of construction, and in the economy of fuel for running them, as to make them superior to all others. One can be seen in operation at the works, where all information respecting them can be obtained.

16v8 THOMAS SCOTT & CO.,

SAN FRANCISCO

FOUNDRY & MACHINE WORKS,

Corner Fremont and Mission streets,

SAN FRANCISCO.

ALL KINDS OF MACHINERY MADE TO ORDER ON THE MOST reasonable terms. Steam engines, high and low pressure, Quartz Mills, Saw Mills, Mining Pumps, Hoisting Machinery for mining purposes, Agricultural implements, etc., etc. Castings, of all descriptions, made to order. Also, WINE, CIDER AND TOBACCO PRESSES, of the latest improved patterns.

☞ Steam Engines constantly on hand.

Brodie's Improved Patent Wind Blast Separator for Dry Crushing, Manufactured here.

☞ REPAIRING promptly attended to.

DEVOE, DINSMORE & CO.

San Francisco, May 28, 1864. 22v8

DUNBAR'S

Patent Self-Adjusting Piston Packing.

Requires no Springs or Screws.—Is always Steam Tight, without excessive friction, and never gets slack or leaky.

IT WILL SAVE EACH SEASON MANY TIMES ITS COST IN friction, time, steam and power. No engine, old or new, should be without it. It can be easily fitted to old or new Pistons.

Having obtained the Agency of this VALUABLE IMPROVEMENT, I am prepared to furnish it wherever desired. For further information, address HENRY S. SMITH,

23v8 Golden State Iron Works, San Francisco.

PIONEER FOUNDRY and MACHINE SHOP,

Lower Gold Hill,

Have Superior Facilities for Making

MINING & MILLING MACHINERY,

A COMPLETE SET OF MACHINE TOOLS WITH

PLANER,

ENABLES ME TO DO ALL KINDS OF

MACHINE WORK AT SHORT NOTICE.

RETORTS AND INGOT MOULDS,
STAMP SHOES AND DIES,
WHEELER, VARNEY AND HEPBURN
PAN SHOES CONSTANTLY ON HAND.

Plans, Specifications, and Drawings of all kinds of Mill and Mining Machinery made at short notice, by

13 OLIVER HYDE, JR.

D. B. HINCKLEY, WM. E. WORTH. WM. A. FIELD

Fulton Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First Street, between Market and Mission stree

3-qy SAN FRANCISCO.

J. H. GAUSH, J. A. PEER, W. BUSHMAN

GRUSH & CO.,

Pattern and Model Makers.

Drawings Made for Engines, Mills, Water Wheels, Mining Machinery, Etc.

—ALSO—

WOOD WORK FOR ALL KINDS OF MACHINERY.

☞ SCROLL SAWING DONE TO ORDER.

Fremont St., between Market and Mission, San Francisco. 3-3m

GEORGE T. PRACY,

MACHINIST AND BLACKSMITH.

Steam Engine, Flour and Saw Mill,

And Quartz Machinery, Printing Presses,

—AND—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED

Nos. 109 and 111 Fremont street, near corner of Mission,

OPPOSITE MECHANICS' MILL,

3-qy SAN FRANCISCO.

JOHN F. GALLAGHER..... .....JOSEPH H. WEED.

GALLAGHER & WEED,

BRASS AND BELL FOUNDRY

And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING, DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, MADE to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks, also brass Padlocks and Shop Locks of various patterns, on hand and made to order.

☞ Particular attention given to casting Rudder Braces and Ship Work in general.

☞ All Jobs promptly attended to.—Prices moderate. ☜

No. 125 First Street, opposite Minna, next door to Pacific Foundry.

[Removed from Oregon street, between Front and Davis.]

j2tf

LEWIS COFFEY. J. S. RISDON.

LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

THE ONLY EXCLUSIVELY BOILER MAKING ESTABLISHment on the Pacific Coast, owned and conducted by Practical Boiler Makers. All orders for New Work, the repairing of Old Work, executed as ordered, and warranted as to quality.

Old Stand, corner Bush and Market Streets. Opposite Oriental Hotel, San Francisco, Cal.

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,

BOILER MAKERS AND SHEET IRON WORKERS,

N. B. All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission, between Beal and Fremont Sts., San Francisco.

qy29-tf

PHŒNIX WORKS.

Nos. 6 & 8 Battery street, near Bush, San Francisco.

JOHNATHAN KITTREDGE, MANUFACTURER

—OF—

FIRE-PROOF DOORS, SHUTTERS, GRATINGS AND BANK VAULTS.—ALSO, BLACKSMITH'S WORK. 14-m

Vulcan Iron Works Company.

P. Torquet,.....Manager.

Steam Engine Builders and Boiler Makers, Iron Founders and General Engineers,

PUMPING, HOISTING, MINING AND QUARTZ-CRUSHING MAchinery. Shoes and Dies of the hardest iron. Russia Iron Punched Screens, Steamboat Machinery, Saw, Flour and Sugar Mills. High and Low Pressure Boilers of all styles. JONVAL and other Turbine Water Wheels with latest improvements.

tf No. 187 & 139 First Street San Francisco.

NEW FOUNDRY.

SCHWARTZ, SHIELDS & CO.,

Albany Iron Works,

Missloa street (south side), just below Beale.

THE UNDERSIGNED PROPRIETORS ARE PREPARED TO manufacture all kinds of castings on the most liberal terms and on the shortest notice. Orders solicited.

N. SCHWARTZ,
R. SHIELDS,
D. S. DONELTY,
J. F. FLYNN

San Francisco, May 24, 1864. 22-tf

AND SCIENTIFIC

Mining Press.

A Mining Journal--Devoted to News, Art, Science and Progress.

VOLUME VIII. SAN FRANCISCO, SATURDAY, JUNE 25, 1864. NUMBER 26.

BRIEF MENTION.

SAN FRANCISCO.

The examinntion of the thentrical mnnagers, on the charge of keeping places of amnsement open on Snnday, resnked in their dismissnl, on the ground of informnlity in the proceedings.

A deck hann on the tug hoat Merrimack, had his leg broken on Saturdny last.

A man nnmed Bloomer committed snicide nt the Enreka Lodging House, on Sunday. Cause—domestic difficnlties.

Charles W. Kramer, one of the California Pioneers, who died at Stenmhoat Springs, on the 13th inst., was hnried in this city, on Sunday, hy that nssociation.

Three men were drowned. on Wednesday afternoon, hy the capsizing of n hoat in the bny. They were workmen who had been engaged on the government defences at Angel Island, and were returning to the city at the time.

A Telegram has heen received by the Rt. Rev. Bishop Kipp, from his son, Major Lawrence Kipp, annonncing the fact that he had been wounded in one of the recent hattles in Virginia. It is supposed that the wound is not serious.

A Bio California grown ornnge. measnring 14½ inches in circnmference, has heen exhibited to us dnring the week. It is truly a monster. Tahiti mnst look to her laurels if we raise many such as this.

The Supervisors held a special meeting, on Wednesday noon, at the reqnest of the Chamber of Commerce, to take some action in regard to the Camanche. Mr. Ryan, one of the contractors, made a sintement to the effect that the delay in huilding the iron-clad is caused hy a difficulty between all hands concerned, as to the payment of $60,000.

Kate Mahon, the servant girl who was hadly hurned from her clothes taking fire, on Tuesday last, died on Wednesday.

The Fire Alarm Telegraph, for this city, is to he huilt at once. Mr. Street, who was sent Enst to exnmine the different systems, has reported in favor of the one made and nsed hy Messrs. Kennard & Co., and has heen authorized, hy telegraph, to contract with those gentlemen to huild one for us.

Mr. Thomas Brownejohn, one of onr most prominent mining secretaries, died on the 21st inst., after a lingering illness, at the Warm Springs, Alameda county. His funernl was attended, on Thursday, from St. Mary's Cathedral.

We acknowledge the receipt of an invitation from the Faculty of the Santa Clara College, to attend their Annual Exhibition and Commencement, on the 27th inst.

We would call the nttention of our renders to the card of Mr. H. Hochholzer, in onr advertising columns. Mr. H. pays particular attention to mining Engineering, Maps, Tunnel Surveying, &c., in Washoe.

The Pavillion for the Indnstrial Fair for the Mechanics' Institute of this city, was commenced on Friday. We have seen the plnns of the building nnd will in due seasou puhlish an engraving of the same, as it will appenr when finished. The contract for hnilding the Pavillion, has heen awarded to Mr. John Clark, who will complete the work within forty days. We cannot too often call the attention of onr renders, to the importance of the coming Fair, and in this connection we return many thanks for courtesies extended to ns hy the officers and members of the Institute.

Prospecting Expedition.—The prospecting expedition which recently left Stockton, under the direction of Dr. Willing, for Arizona Territory, has heen heard from, on West Walker's River, near the head of the Stanislaus. The party had found what appeared to he some very good silver croppings at that locality, and sent in some specimens. The vein is about forty feet wide. The Dr. also sent in a specimen of ore which he thinks contains tin. The party is provisioned for an eight months' trip, and their ultimate destination is Arizona Territory and the land of the "golden hullets."

The Goln Bill.—An evening paper asks, "What means the Gold Bill?" We answer that the government, feeling itself strong and powerful, has determined to check this thing called "Gold Speculation," which, to quote the language of an eastern paper, "is contrived and engineered hy great foreign capitalists, who have combined to invest heavily in our puhlic securities and who naturally seek to buy them as cheap as they can." *That's what's the matter.*

A Sanitary Festival will he held at Allison's Ranch, near North San Juan, Nevada county, on the 4th of July. The Hon. Wm. H. Sears will deliver the oration and the San Jnan Gnnrds, do the military honors. The day will be wound up with a military hall at French Corral. The receipts of the whole day will he donated to the sanitary fund.

Treasure Shipment.—The Uncle Sam took away, on Thursday $982,380 in treasure.

Rules for Advertising Assessments on Saturdays.

Levy your Assessments upon any day Except Friday.

Advertise the Assessment Notice on the First Four Saturnays succeeding the day upon which the assessment is levied.

Appoint the day for advertising the Delinquent Sale on the Fifth Saturday succeeding the date of levying the assessment.

Appoint the Day of Sale on the Seventh Saturnay succeeding the date of levying the assessment, or on any dny previous to the Eighth Saturday.

Assessments ordered upon Saturday, afford the Secretary the longest term in which to effect his advertising at the mine.

Election of Officers.

The following companies at their recent meetings hnve elected officers as follows:

Ontario and Webster G. & S. M. Co.—Meeting June 20. Trustees, J. B. Levet, W. H. Hyde, H. Chester, W. H. Delano, Edward Fales.

Green G. & S. M. Co.—Meeting June 9. Trustees, Edward Flanagin, Capt. John Henderson, J. R. Jarbor. President, Capt. John Henderson; Superintendent, Capt. Uhalahand.

Gobernanora S. M. Co.—Meeting, June 20. Trustees, Geo. C. Wallar, R. G. McClellan, W. A. Ahhott, J. Brazer, T. Prince. President, and Trensurer, Geo. C. Waller; Superintendent, G. W Hayden,

New Year's Digoinos G. & S. M. Co.—Meeting June 21. Trnstees, M. Lebatnrd, E. Altenburg, B. Lagonrde, C. S. Lipman, C. Desprey. President, M. Lehatard; Vice President, E. Altenhurg; Secretary, Ang. Knnast; Treasurer, B. E. Auger.

The Bank of California.—This institution, which will snpply to the financial circles of this city a reliahle hanking medium long needed hy nll whose means or husiness lead them into the vortex of financial matters, has started npon as sound n basis as any enterprise of the kind ever yet horn on American soil. The amount of cash capital paid in (in gold) is $2,000,000. We append the 2d Section of the Certificate of Incorporation, and the names of the incorporators, among whom will he fonnd many of the solid men of San Francisco:

Second—That the ohjects for which the Company is formed are to engage in and carry on the business of hanking to such extent, and in nll such branches as may legally be done under the Constitution and laws of the State of California.

Incorporators—D. O. Mills, J. B. Thomas, O. F. Griffin, J. Whitney, Jr., Herman Michels, Moses Ellis, R. M. Jessup, W. E. Barron, H. F. Teschmacher, Louis McLane, A. C. Henry, W. C. Ralston, A. T. Lawton, John O. Earl, William Norris, A. B. McCreary, A. J. Pope, R. S. Fretz, Thomas Bell, George H. Howard, Samuel Knight, J. C. Wilmerding, William Alvord.

Gone East.—A large number of Californians left on the steamer of Thursdny last, to visit their old homes in the East. Among the passengers was Frank Warnell, latel the Editor of the Mining Gossip department of this paper, who goes East for hoth husiness and pleasnre. While our readers will donhtless miss his piquant articles in that department, they will be glad to learn that he will correspond with us from the Atlantic side. *Bon Voyage*, Frank.

The North Potosi and Chollar.—A correspondent, writing from Virginia City, says that much excitemeut exists there with regard to the suit pending hetween the North Potosi and Chollar companies. It is thonght that much violence may grow out of it.

Miss Emma Hardinge is to deliver the oration Indian Valley, on the 4th of July.

Written for the Mining and Scientific Press.]

The Patio Amalgamation.

BY J. H. CHURCHILL, A. M.

[CONCLUDED FROM PAGE 410.]

This change from the suboxide to the higher oxide of mercury, and metallic mercury, by the action of the light, or a temperature of 212° was long since noticed in the laboratory. It has a counterpart in the reduction of the insoluble salts of the suboxide of mercury, when exposed to long boiling with water. Berzelius acknowledges the authority of chemists, ranging from Boerhaave to Herapath, for the change of finely divided mercury, well agitated in contact with the air, into suboxide, but adds to their experience the observation of his own, that the reaction only takes place when the mercury is impure. His words are these, after speaking of Boerhaave's method, by fixing a flask a quarter filled with mercury to a revolving wheel, he adds, "Many other chemists having obtained this oxide by this means I shall not deny the correctness of the fact, but it is nevertheless perfectly true, that with absolutely pure mercury, the experiment only succeeds when some foreign matter is interposed between the molecules of the agitated mercury, and prevents their junction again." He compares the result with the voluminous black powder, obtained by agitating mercury containing lead. "Let the lead," he says, "be put in a mortar and pounded with the pestle, and as soon as the pellicle of suboxide of lead is broken up, which kept them apart, thousands of globules of mercury spring out of it."

Trituration then with sand, to act as a subdivider, being an efficient agent in the production of the powdered oxide "this amalgamates instantly with any brass, gold, silver, &c., with which it may be rubbed."* It is well to recall here that the upper portions of the torta, which have been the most exposed to the oxygen of the air, and the light and warmth of the sun, are constantly found to be the most forward, when separately tested, and that a long continued application of a lower degree of heat may substitute a higher temperature.

The introduction of oxygen, in this unstable form, appears to me of much more importance, in accounting for the phenomenon of the oxidation of sulphurets discovered by Dr. Bowring, than when it combines with the subchloride of copper, to form, as it does, the oxichloride. The combination of a salt of copper with the oxide, formed one of the most durable of the ancient green pigments.†

Having brought thus far the narrative of the employment of the chemicals, and noticed the necessity of having their reactions under control, I will now consider the different counter agents used to modify their effect. For this purpose the principal resource is lime, which is employed to prevent the liberation of hydrochloric acid from the salt, when too much magistral has been added at any time. This being itself injurious, when too much is used, and as may be gathered from what has been said of the proportions employed, there being very little guide to be found except in testing the result from time to time. It has been more than once attempted to substitute the lime by metals. These involve further reactions according to the proportion of other metals present.

The use of wood ashes in the place of the lime probably has never been of more than limited extent; the alkali they contain becomes as neutral and free from secondary action as an equivalent quantity of lime. An excess also acts directly upon the sulphuric acid of the magistral, and the salt pro tanto remains unaffected. The metals used directly for this purpose have been copper and zinc, in Mexico. The beneficio de hierro of Pern may have partly been directed to the same end—at any rate the principle of subjecting other materials, than the precious metals and mercury, to the action of the excess of acid is attained in all three modes. Louckner and Macintosh patented the use of copper amalgam in Mexico. Their claim was evaded by the practice of introducing copper, precipitated by iron from a solution of sulphate of copper.

It will at once be seen how early the Patio practice was complete, even if not thoroughly understood, when we observe that, whether the sulphate of copper was dissolved, and treated with iron outside the torta, and the precipitated copper introduced as such, or, when farther operated on, as amalgam—or the magistral was introduced in this state to the torta, and there made to act on the salt with, as a result, chloride, or subchloride of copper, according to the other materials present, and the iron afterwards brought into the solution of one of these salts—we shall equally have this finely divided copper. Copper has little tendency to combine with mercury, except when this is precipitated by decomposition on its own surface—or it is made to unite by electrical action—unless it is rubbed with the mercury when itself reduced exactly to this form. This increased predisposition of copper, thus obtained, for amalgamation, is of the same nature as its tendency to form chemical combinations; and while this was as we have seen the result of the practice of the Peruvian miner of 1586, the amalgam itself was the patented invention of one of the most experienced amalgamators of recent date, in Mexico. The amalgam employed contained about thirty per cent. of copper. The proneness to oxidation of freshly precipitated copper will also appear of importance.

It has been observed that the copper disappears from the amalgam, and that there is less loss of mercury, when the copper amalgam is used, even before the chemicals are brought into action; thus when in amalgamation of native metals in the arrastras, copper amalgam has been substituted for the silver amalgam before spoken of, this has resulted. It is to be assumed therefore that the finely precipitated copper operates to facilitate the combination of the precious metals with the mercury, with which it first itself unites; and when this is in the presence of chloride of silver, it may even be regarded as affording much the same readiness for an interchange, as in the case of the mutual decomposition of salts. Zinc amalgam which could be much more readily made, has also been used, and would have the same effect, as far as counteracting excess of magistral in the torta. Its action in other respects, like that of iron, would be less favorable to obtaining a pure amalgam. This result is equally obtained in the barrel amalgamation, indeed the following observations, made by Mr. Kustel, import that not only does the copper then ensure immunity from amalgamation with the base metals already in the ores, but that impure copper is also effective there, he says. "It is by no means necessary to use pure copper in the barrel. In treating the copperous silver ore from the Heintzelman mine in Arizona, I was obliged to procure copper by liquation of copperous lead. Being limited in regard to heat for want of firebrick the copper could not be refined properly, having a grayish color on account of some lead." Nor was this a single case of the kind—for again he says "black copper bought from Mexicans gave a very favorable result as to the quality and quantity of the silver extracted." I have alluded to the reduction of the insoluble subsalts of mercury, by the long continued action of boiling water, as analogous to the change of the suboxide, to the protoxide and metallic mercury, by the action of the sun—and, as we have also seen, there is at the stage of the process when the torta is in good working order a formation of calomel, the subchloride of mercury, which takes place in the presence of common salt. A great tendency exists in this to form a double salt with the protochloride of mercury. To this double salt have been traced cases of accidental poisoning when the druggist's calomel has been administered with common salt. This tendency will of course induce a change of the subchloride of mercury to the latter chloride, but here again we have ground for tracing the utility of finely divided copper, as it would oppose itself to the above reaction. This combination of the chlorides present is not confined to the common salt and mercury, and the common salt and silver, but there is formed also chloride of copper, and I have only to refer to the experience of every chemist, who uses wet methods of analysis, to draw attention to a point which in connection with the Patio process has hitherto been unnoticed by writers on this subject. I mean the solubility of the chloride of silver in the chloride of copper.

In attempting a summary of the theory of the Patio Process I will first enunciate the reactions which are traced in it by the hand of M. Regnault in his teachings at the Ecole Polytechnique of Paris. Notes of his lectures furnish the following. "The seasalt and the sulphate of copper of the magistral react on each other by mutual decomposition, thence is formed protochloride of copper, Cu Cl, and sulphate of soda. The metallic silver decomposes the protochloride of copper, leads it back to the condition of subchloride of copper, Cu^2 Cl, and itself changes to chloride of silver. The subchloride of copper dissolves in the solution of seasalt, and reacts on the sulphuret of silver, and forms sulphuret of copper and chloride of silver. The mercury acts in its turn on the chloride of silver, which also dissolves in the solution of seasalt and forms subchloride of mercury, Hg^2 Cl. and the metallic silver combines with the rest of the mercury. It is essential in this operation, as in the amalgamation at Freiberg, that there remain no free protochloride of copper, Cu Cl, since this chloride would increase the loss of mercury by relinquishing half of its chlorine to this metal to transform it into the subchloride of mercury, Hg^2 Cl. The subchloride of copper, Cu^2 Cl, exercises no injurious action." We are indebted to Boussingault, another French chemist well known in Mexico, for determining that beyond the reaction above detailed between metallic silver and the protochloride of copper Cu Cl—there is also another which will take place between two equivalents of this salt and one equivalent of the sulphuret of silver directly, producing chloride of silver. Karsten the eminent German metallurgist traced as the result of the reaction between the protochloride of copper the separation of the sulphur from the sulphide of silver without its combining with the copper. Napier has shown the formation of sulphide of mercury, by simple division of the two elements of the sulphuret of silver, the mercury combining with both the sulphur, and the silver. This reaction is however confined to a very small proportion of the materials present and is perhaps mainly to be attributed to friction, as it was traced by him in the arrastras. Two of Dr. Bowring's experiments appear to me of sufficient importance to be given with some detail.

1st. He beneficiated an ore of silver, containing the sulphuret of that metal, with salt and some protochloride of copper, Cu Cl, he then treated the mass with pure water and from the filtered washwater obtained a precipitate with nitrate of baryta. The sulphate of baryta found was estimated as indicating the oxidation of the whole of the sulphur to sulphuric acid—he says "the presence of the oxygen without doubt resulted from the absorption of this gas by the subchloride of copper, Cu^2 Cl." I have already pointed out a reason for doubting the efficiency of this agent to transfer the oxygen it absorbs, and have indicated the mercury and copper as possibly being the active cause, but I have not verified the production of sulphuric acid in this way. Again he amalgamated silver ore with bichromate of potash and sulphuric acid thus liberating oxygen in contact with the ore and mercury, and he obtained as a result amalgam of silver, and he hence inferred that "in the same way any materials which produce oxygen may serve in the amalgamation," but independently, aside from this direct induction, he offered it as a proof that chloride of silver was not formed in the torta at all. It is to the discussion, arising from this attempt to call in question the long received theories of this process, that we are indebted for the experiments of Mr. Napier, which applied the previous results of M. Malaguti & Durocher to proving that, in the mixtures of such ores as are found in the torta, the chloride of silver may be formed in a sufficiently large quantity to be readily and uniformly detected, and then may afterward disappear—and this quite independently of the action of mercury. The most important details of this we have already traced in the former part of this description. In view however of Dr. Bowring's determination of the oxidation of the sulphur of the sulphuret of silver, given above, Mr. Napier's test—heating samples from the tortas in a solution of common salt—would appear less happy, when he is wishing to prove directly, that the above assumption, of the absence of chloride of silver, is false.

If we now resume the examination of the routine of the process, we shall be in a position to see the bearing of the intricate mixtures, which constitute the torta—it is important to observe that, however much care may be taken to effect the due commingling of the various materials, yet many causes conspire to make the full accomplishment of this result tedious, and to produce the occurrence of reactions, which prevent the progress of the amalgamation according to any rule, which can be absolutely laid down beforehand—the time requisite to dissolve large quantities of materials, for it is of masses of thirty to sixty tons of which we are speaking—the unfavorable temperature, for it is in hot solutions of salt, or chloride of copper, that chloridee and especially chloride of silver readily dissolve—the large proportion of neutral materials, the gangue of the ore—the silica introduced with the magistral—all preventing the contact of the active ingredients, except as they gradually become dissolved or are accidentally brought together—the necessary dependence of the succession of different series of reactions on the proportions thus acting on each other, which in different parts of the torta must be very various, and consequently irregular—the action of the law now well established that deductions cannot be drawn, from the affinity of the strongest acids for the strongest bases, as to the arrangement of substances in solution—and indeed from the commencement, the varying quality of the ores themselves. These all render it impossible to define with exactness the progress of the silver, from its combinations with sulphur, with silica, with manganese‡—and associated as it may be with mercury, antimony, arsenic, zinc, lead and copper—to that

honeycombed mass of white metal which fixes the imagination of the nzoguero as he thinks of the plata pinu which is to be the goal of his cares.

If I have shown why the treatment of this subject cannot be exhaustive, I shall rely upon the indulgence of the readers of this paper, if I have succeeded in pointing out those reactions which may be suggestive of further progress. This has been my aim, as fulfilling the true function of chemistry.

*Berzelius Traite de Chimie t. II.

†Sir Humphrey Davy.

‡Louckner assumed that he had discovered a manganate of silver

[Written for the Mining and Scientific Press.]

The Copper Mines of Plumas County.

Editors Press:—I have passed a fortnight very pleasantly and very profitably among the mountains of Plumas, finding everywhere throughout this section, evidences of the most abundant mineral deposits. The gulch and placer diggings are still energetically worked, affording sure and reasonable compensation. The quartz ledges, bearing gold, are being profitably worked. One ledge, which pays the least per ton of any having a mill upon it, (averaging but $8,) is proving a very valuable property; wood costing nothing here, and labor being reasonable. The running expenses here, per ton, for working rock, will not exceed $2.

The copper mines of this region are marvels of richness and size. One which I have visited has croppings 125 feet wide, and at the depth of 25 feet exhibits six feet of decomposed quartz, literally stuffed with decomposed copper, and over seventeen feet of solid yellow sulphurets of high grade. I have never seen its equal as a copper mine, and I much doubt if its superior can be found anywhere. I ought to have said that the extent of the vein is being determined by drifting from the shaft sunk on the vein, and that neither the foot nor hanging wall have yet been reached. The formation is granite and slate. The Superior mine shows beautiful "peacock ore" in large quantities. The Summit mine exhibits sulphurets, grey oxides and native copper. The "Gift" and "Price" claims give promise of great excellence. The great richness of the mines of Plumas county, the cheapness with which they can be worked and the magnificent agricultural resources of the region, must convince the capitalist, who investigates carefully, that nowhere in the state would an investment be more certain to prove remunerative than in extracting the precious and useful metals from the everlasting hills which overlook Feather river and its numerous branches.

Prospector.

Taylorsville, Plumas Co., June 17.

The Return Tide.—An exchange says that the return tide of population from Washoe seems to have set in pretty strongly. Hundreds who left here a few months ago, in expectation of finding better employment on the other side of the mountains than on this, are returning to the scenes of their former labors, out of pocket, and almost out of heart. Some are so poor that they are compelled to foot it, and live on half rations. Luckily, however, there is pretty general demand for laborers in the mining, and some of the agricultural portions of this State, and the places they left in disgust now appear to them as paradises. The diligent and faithful, who are determined to work, can always get employment in this State at good wages, but hanging about barrooms in cities and towns is no way to get work.

Photographic Discoveries.—A Spanish photographer has discovered a varnish which gives an astonishing brilliancy to photographs to which it is applied. He keeps his invention secret, but the varnish is believed to consist of albumen. M. Matthys has also produced a similar effect by means of a thin coating of collodion.

Photographs are now taken very successfully by the aid of the new magnetism light. Fifteen grains in the form of fine wire will burn a minute, and not cost more than a few cents. At the distance of eight feet from the sitter the light produces a negative equal to any obtained from sunlight under the most favorable circumstances, and by moving the light the harshness of the shadows and a distribution of light and shade are completely at the control of the operator. This opens a new page in photography.

[Written for the Mining and Scientific Press.]

THE MINES OF THE SIERRA NEVADA.

THEIR FORMATION AND EXTENT.

When the mind once becomes familiar with the laws of matter, and the forces by which lofty ranges of mountains are piled one upon another, it is enabled to perceive analogies in their formation and structure which otherwise would not be obvious. In order to comprehend the formation of the Sierra Nevada mountains, certain facts must be borne in mind, that by most geologists are considered well established. *First:*—The interior of the earth is a mass of molten matter, at a very elevated temperature. *Second:*—The earth was once vastly more bulky than it is now, extending far above the clouds or even the present line of the atmosphere itself; and this in consequence of a vastly higher temperature than that which, in the present era, it possesses. *Third:*—The force by which mountains are upheaved is derived from the contraction of the body of the earth by the loss of heat, thereby leaving its crust too large.

The contortions, the bends, the inflections, the ever recurring rises and falls of the more ancient stratified rocks, forcibly remind one of the foldings of a loose robe, grown greatly too large for the shrunken body it contains. The crust of the earth was once too thin to support an island above the surface of the sea; and at a time still more remote, the temperate of the globe was so high that no water rested upon its surface. When the earth was one molten mass from center to circumference, the matter of which it is composed arranged itself in successive layers, according to specific gravity: the lighter earths upon the surface, and the heavier earths and metals near the earth's center; subject, however to the modifying influence of heat. The rocks and metals do not expand equally by an increase of heat. Were it otherwise, no metals would as yet have found their way to the surface through the fissures. The figures in the following table, the results of experiments made on building materials, will show the relative increase in bulk of a few specimens of rocks and metal, for an increase in temperature of 180° Fahrenheit:

Granite	.0008968.	Cast Iron	.00114676.
Greenstone	.0008089.	Copper	.00169920.

The above table, compiled from a marginal note in Dana's Mineralogy, though limited, is sufficient to indicate that earths and metals do not expand equally by an increase of temperature. I will here suggest a method by which I think the order of the formation of the igneous rocks may be determined to the entire thickness of the earth's crust. Let a series of experiments be instituted to ascertain the exact specific gravity, at a fixed temperature, of all the igneous, unoxydized rocks and metals, and also their rate of expansion at an increased temperature. As gold and quartz rock expand unequally, by an increase of temperature, the degree of heat might thus be determined at which the specific gravities of the two bodies are equal, and their place in the formation of the earth's crust, might also be fixed. By this process the places of all the igneous rocks, and the metals they contain, may be determined in the order they occur, from the aqueous, or stratified rocks, downwards. Specimens of every strata may be found in the fissures produced by each successive upheaval, the matter filling each fissure being a chimney, reaching up from each stratum, and identical in composition. As the temperature of the earth decreased, its crust thickened, so that the molten matter filling each fissure came from a greater depth at each upheaval.

An exact knowledge of the structure and composition of the earth's crust would lend increased interest to science; [and in its practical results would be of incalculable benefit to the miner. When the crust of the earth adjusts itself to the shrinking mass it contains, earthquakes are produced, and as the crust shortens, certain portions are elevated, causing fissures, which, along the summit of such elevation, open upward and outward, and along the base, open downward. As the crust of the earth thickens, the width of such elevation increases at each successive upheaval, until ranges of mountains are formed. As the gold bearing stratum lies beneath the iron, copper and silver bearing strata, the mountains must have attained great height and breadth before gold bearing rock could have found its way to the surface, through the fissures. It is evident that when a fissure opens at the summit, another must open at the base at the same moment, (or very soon after) and consequently the matter filling both fissures must be identical in composition, having come up from the same stratum. When gold bearing quartz is found upon the summit of a range of mountains, it must also exist in the fissures at the base of the range. For the sake of distinction, I shall denominate that system of copper, silver and gold bearing quartz lodes, situated at or near the base of the Sierra Nevada range of mountains and running parallel with the axis of their greatest elevation, *true fissure lodes;* and all other quartz lodes, whether productive or otherwise, running at an angle with the system of true fissure lodes, *segregated lodes*, as in reality most of them are. During upheavals, the lateral pressure, at the base, against the upper edges of the fissure, produced by the entire weight of the mountains is immense. Although these fissures may reach their entire length, yet, owing to the looseness of the surface, they only appear at intervals in favorable localities. Segregated lodes are richest at the surface, because the matter of which they are composed was ejected by the instant closing of the semi-fluid portion of the underside of the earth's crust, while true fissure lodes, being narrowest at the surface, increase in richness until the stratum is reached of which they are a part or chimney. True fissure lodes are poorest at the surface, because the moment when the molten matter begins to rise in them, its temperature falls, which makes a difference in the specific gravity, of the gold and quartz rock, that of the gold being greatest, it sifts down through the quartz until they solidify. The immense quantity of gold produced by the placers of the summit, was derived from the segregated lodes that have disintegrated and wasted away. The fact that the system of summit lodes has been so immensely productive surely indicates that the system of true fissure lodes will also be productive, as both systems were formed simultaneously and must have been filled with matter from the same stratum, identical in composition. The true prosperity of California will date from the opening of these as yet unexplored mines, which from their nature are inexhaustable.

The product of all the mines the world has yet known would dwindle into insignificance in comparison with the yield of the system of true fissure lodes, existing at the western base of the mountains, when they are developed. Judging from the structure of the western slope of the Sierra, every metal known to man, should be found in the lodes existing at their base. All of these quartz lodes containing any gold at all in the surface rock, are worth looking after. They should be followed down, below the point where any lateral pressure existed during the upheavals, or until the lode widens and holds its width before they can be considered prospected. The scope of country containing these mines is about six or eight miles in width, and should extend the entire length of the mountains. I would say to all of those miners who from the transient nature of placer mining have become despondent, be of good cheer, for there is enough for all. "There is a good time coming, boys." The spectacle of dilapidated, clapboard mining camps will not be repeated in the many towns that will inevitably spring up along the foothills, for the basis of their prosperity will be as enduring as the everlasting hills. F. A. H.

Forbestown, Butte County, Cal.

Insuring Sermons.—A Connecticut clergyman some ten years since, insured a large lot of manuscript sermons, among other personal property, in the well known Etna Insurance Company at Hartford. In moving from one house to another, the sermons chanced to be left as the last of his effects to be moved, and in the mean time the house he was leaving, suddenly took fire, and was destroyed, together with the old sermons. On application, the insurance money was refused on the ground that old manuscript sermons, not intended for publication, were of no value. In his defense the clergyman introduced, as witnesses, some of his parishioners who testified that the sermons had done *them* some good and they hence believed them valuable. The Judge could not decide upon their pecuniary value, but the jury, thinking it was sufficiently proved that they were "some good," awarded a verdict of $2,000 for the plaintiff.

It is said that there are between eleven and twelve millions of the inhabitants of France whose poverty is such that they are unable to taste butcher's meat from one year's end to another.

THE NEW ASSESSMENT LAW.

Tbc report of the following Act, given hy the daily press about the time of its passage, contained aome slight errors, and we tberefore republish tbe law as presented in the official "Statutes of California," Chapter 344, page 404 :—

AN ACT Concerning Assessments upon the Stock of Corporations.

Tbc people of tbe State of California, represented in Senate and Assembly, do enact as follows :

Section 1. The Trustees of any corporation, formed under the general laws of this State, shall have power to levy and collect, for tha purpose of paying the proper and legal expenses of such corporation, assessments npon tbe capital stock tbereof, in the manner and form and to the extent hereinafter provided, and not otherwise.

Section 2. No assessment sball exceed five per cent. of the capital stock of the corporation, and none sball be levied while any portion of any previous assessment sball remain uupaid, or uncollected, except in cases where all the powers of the corporation shall have been exercised in accordance with tbe terms of this act, for the purpose of collecting such previous assessment, and except, also, the collection of n previous assessment against one or more stockholders, restrained hy injunction or otberwise ; in which case, further assessment mny he levied and collected according to this act.

Section 3. No assessment sball be levied except hy order of the Board of Trnstees, concurred in hy a majority of said Board, and entered npon the records of the corporation.

Section 4. Every order levying an assesment sball specify the amonnt thereof and the time when the person or persons to whom and the place or places where tbe same is payable. It shall also appoint a day for tbe advertisement of the delinquent list, whicb sball not be less than tbirty nor more than thirty-five days from the time of tbe making of sucb order, and a day for the sale of delinquent stock, which shall not be less tban ten nor mora than twanty days from the time appointed for tbe advertisement of the delinquent list.

Section 5. Upon the making of such an order, tbe Secretary sball cause to be published immediately a notice thereof in the following form :

" [Name in full.] [Location of works.] Notice is hereby given tbat at a meeting of the Trustees of said Company held on the [datc] an assessment of [amount] per share was levied npon the capital stock of said Company, payable [when, to whom, and wliere, particularly]. Any stock upon which said assessment shall remain unpaid on tbe [day fixed] will be advertised on that day as delinquent, and nnless payment sball be made before, will be sold on the [day appointed], to pay tba delinquent assessment, together with costs of advertising and expenses of the sale. [Signature of the Secretary, witb particular location of office.]"

Section 6. Said notica sball ba published once each week for four successive weeks, in some daily or weekly paper, published at the place designated in the articles of corporation as the principal place of business of the corporation, and also in some paper published in the County in which tbe works of the corporation are situated, if a paper be published therein ; *provided*, that if the works of the corporation are not situated within some State or Territory of tbe United States, tben publication in a paper of the County shall not be necessary ; nnd, *provided also*, tbat if there is no paper regularly issued on Saturdays at any place where publication is required to he made, the notice may he published in every issue of the paper which ia most frequently issned at such place, for the full period of four weeks ; and *provided, also*, that if tbere is no newspaper publiabed at tha place dasignated as the principal place of business of the corporation, then the publication shall be made in the newspaper published nearest thereto ; and, *provided, also*, that the notice specified in the 5th section of this act may be served by delivering a copy thereof, certified by the Secretary, to each stockholder personally, and in case of auch service upon all the stockholders of said corporation, tben no notice by publication sball ba necessary, and auch personal notice shall be deemed complete.

Section 7. If any portion of the assessment mentioned in said notice ahall remain nnpaid on the day spacified therein for the publication of tha notice of aale, the secretary shall, nnless otherwise ordered by the Board of Trnstees, cause to be published in the same papers in which the notice provided for in section 5 shall have been published, a notica substantially in the following form :

" [Name in full ; location of works.] *Notice.*—Thera is delinqnent upon the following described stock, on account of assessment levied on the [date,] [and assessments levied previons tbereto, if any,] the several amounts set opposite the names of the respective sharebolders, as follows : [Names, num ber of certificates, number of shares, amount.] And in accordance with law, [and an order of tbe Board of Trustees, made on the [date,] if any such order shall have been made,] so many shares of each parcel of said stock as may he necessary, will he sold at the [particular place,] on the [date,] nt [the hour,] of said day, to pay said delinqnent assessments thereon, together with costs of advertising and expenses of the sale. [Name of Secretary witb particular location of office.] "

Section 8. Said last named notice sball state every certificate of stock separately, with tbe nnmber of sbares which it represents. and the amount dne thereon, except wbere certificates may not have been issued to parties entitled thereto, in wbich case the number of shares and the amount due thereon, together with the fact that the certificates for such shares bave not been issned shall be stated.

Section 9. Said notice, wben published in a daily or weekly paper, or in both, shall be published as follows : Wben published in a daily paper, the same sball be published for a period of ten days, exclnding Sundays and holidays, previous to the day of sale. When published in a weekly paper, the same shall he published for two weeks previous to the day of sale, tbe first publication in tbe weekly being at least fonrteen days prior to the day of sale.

Section 10. By the publication of the said notices as hereinhefore provided tbe corporation shall acquire jurisdiction to sell and convey a full complete, and absolute title to all of the stock described in the notice of sale upon which any portion of tbe assessment or costs of advertising shall remain unpaid at tbe hour appointed for the sale, but shall sell no more of such stock tban is necessary to pay the assessments due and cost of sale.

Section 11. On the day and at the place, and as nearly as may be nt the hour appointed in the notice of sale, the Secretary shall, unless otherwise ordered hy the Board of Trustees, sell, or caused to he sold at public auction, to the highest bidder for cash, so many sbares of each parcel of said described stock as may he necessary to pay the assessment and charges thereon, according to tbe terms of said notice of sale ; *provided*, tbat if payment be made hefora the time fixed for sale, the party paying shall only he required to pay the actual cost of advertising.

Section 12. The person offering at such sale to pay the assessment and costs for the smallest number of sbares, or fraction of a share, shall be deemed tbe highest bidder.

Section 13. The times fixed in any notice published according to the provisions, [of this Act] may be once extended for a period of not more than ten days, by order of the Board of Trustees duly made and entered on the records of the corporation ; hut no order extending the time for the performance of any act specified in any notice sball he effectnal, nnless notice of sucb extension or postponement be appended to and publisbed with tbe notice to which [the] order relates, before the completion of the regnlar course of publication thereof.

Section 14. No assessment duly levied shall be rendered invalid by a failure to make proper publication of the notices hereinbefore provided for, nor by the non-performance of any act required to be per formed in order to enforce the payment of the same ; hut in case of any substantial error or omission in the course of proceedings for collection, all previous proceedings, except the levying of the assessment, shall bc void, and publication shall be begun anew.

Section 15. All acts and parts of acts inconsistent with the provisions of this act are bereby repealed ; provided, that such repeal shall not affect proceedings commenced for tbe collection of assessments heretofore levied, hut all snch assessments may be collected in accordance with the provisions of the laws tben in force.

Section 16. Tbis act shall take effect immediately.

Appproved April 4th, 1864.

The Immense Line of Immigration.—The Virginia *Union* says : A gentleman who has just arrived from the East by the way of the overland stage. bas been telling us of tbe immensity of emigration on tbe way to this country. He says tbat the nnmber of wagons and people is astonisbing. He found the Platte river so high that tbe wagons could not be taken across. At Juleshurg, a crossing place, he counted above six hundred wagons ; and he is confident, that if all the wagons which he saw on the route were placed in a line, they would extend from Julesburg to Atcbinson—n distance of about four hundred miles!

There waa a very heavy frost at Nevada City, on Friday morning.

WASHOE.

The Dardanelle Company will have their hoisting works ready in a few days. They will be driven by a 20-horse power engine.

The Pride of America are supposed to he close upon the ledge in the drift they are now running. Considerable quartz is already found in numerous small feeders, from which fine specimens are obtained.

The Oneoto Company bave struck a large quantity of water in their tunnel, whicb in addition to what they already had gives quite a stream running from tbeir tunnel. A good deal of quartz is found in the rock through whicb the water rushes into the tunnel. Some think this is a ledge, and it is tbe intention of the company to run a drift along it to prospect it more thoroughly.

Gentle Annie Co.—This company has sunk n sbaft to tbe depth of 135 feet. The ground is of such a character that work can be carried on very rapidly. The company contemplate putting up a whim for boisting.

The Cole Company, a Cedar Ravine claim, have their tunnel in 710 feet, and are at present engaged in putting a box for air under the track, for ventilating purposes.

The Kenosha.—Tbis claim, upon Cedar Hill, consists of 2,400 feet. A prospecting shaft has been sunk to the depth of 124 feet, a little north of the Sierra Nevada hoisting works. At this depth the ledge has a width of from three to four feet, and is almost exclusively of a gold-bearing character, and is, or rather will be, worked only for that metal. Some ten tons were lately sent to tbe Desert mill in Carson Valley. The returns are looked for shortly.

More Roasting Furnaces in Washoe.—Two large double roasting furnaces are being erected at the Woodpecker Mill, immediately below Dayton, N. T. At Keisel's Mill, above Dayton, similar furnaces are also being erected. Keistel & Co. are also building a new steam mill n short distance above the one they are running at present. It will contain fifteen stamps.

About to Start.—A new water-mill wbich is being built by Mr. Jones of Silver City, N. T., is nearly ready to go into operation. It stands in the southern part of the town, on Gold Cañon, and will be propelled by a 24-foot wheel. It will contain three stamps, one seven-foot amalgamating pan and a large agitator.

Precious Metals in Missouri.—Recent explorations go to sbow tbat Missouri is as rich in the precious and rare minerals, as she is in the more bulky, less precious, but more useful minerals. We clip tbe following from a late number of the Missouri *Democrat* :—

The collections on display at our great Fair are "confirmation strong" as visual sense can make, that gold, silver, tin, cobalt and bismuth are among the rare minerals which are found in our State, in moderate, if not paying quantities. It is only within a very short time, however, that these rare gems, which since the invention of poetry, have formed the only fit companion with the bright eyes of the best portion of creation, yclept "diamonds," were known to exist, *in situ*, within our borders. The precious stones can be seen in the Jewelry Department of the Fair ; and a letter before us from Mr. J. Doutlinger, of this city, to Brigadier General Fisk, commences thus : "*General* :—Attached to this, you will receive a little box containing twenty-one diamonds, for the benefit of the Mississippi Valley Sanitary Fair, which diamonds I have found here in Missouri. Although raw (not polished, for there is no chance on this continent, to get precious stones polished,) they will find buyers both for their value, as well as novelty. They have been tried by Theodore Weiss, analytical chemist of this city, and proven genuine. It is most gratifying for me to have succeeded in this discovery ; and that, after a most discouraging answer from Professor Swallow, State Geologist of Missouri, more than seven years ago, to the effect that 'neither gold nor any other precious mineral could be found here in Missouri.' Now, we have diamonds, and we have the gold, and the latter, are, I have every reason to believe, in great abundance."

Fall of a Bridge.—The wire suspension bridge tbat spans the South Fork of the Mokelumne River, on the road leading from Mokelumne Hill to West Point, fell, a few days since, carrying sixty head of cattle tbat were on it, along. The bridge was fifty feet high, and all the cattle were killed.

Two fine crops of hay will be raised in tha tnla lands of tho San Joaquin Valley this season.

EDUCATION vs. LEARNING.

Learning is one of those things which, despite the progress that has been made in almost everything else mundane, has continued unaltered, in all its essential particulars, almost since civilization began. The same class of instruction is given to young men now, and much in the same manner too, as it was imparted before the English language had an existence. Then as now, learning consisted mainly of a knowledge of Greek and Latin. That was the learning which in the middle ages chiefly gave distinction to the scholar. From that early day to the present time, the greater portion of year after year has been spent by every scholar, ambitious for *learning*, upon "Hic, hæc, hoc," varied by "*et* and; *cum* when," and the like. While those tongues were spoken, there was something to be gained by learning them, as they constituted the chief language of literature. The importance of a "classical education" is a fiction, or at least but little better. It is of priestly origin, and has of late descended from universities to "boarding schools," in which latter institutions much valuable time is spent in acquiring the merest smattering of this kind of learning, to be forgotten as soon as school is left. But the parent thinks that to keep up with the times he must have his boy "learn Latin."

The term "Learning" has come to be so misapplied that it would be well if it could be blotted out of the English Language. The primary idea attached to the word is a knowledge of the dead and gone languages of Latin and Greek. A man may be ever so well versed in the law, politics, chemistry, natural history, mathematics, commerce and mechanics, but if he does not understand "Greek and Latin," he is not a man of learning—he never has had a "Classical Education." He may be thoroughly acquainted with all the literature of the day, fully posted and far in advance even of the University "M. A's" and "L. L. D's" in the progress of the Sciences, but if he has not traveled in the same routine of "learning" marked out six or eight centuries ago—if he can't read Horace and Cicero in their original, dead languages, he is classed simply as "a self-educated man," and not entitled to University honors.

In early times "learning" was a word which, perhaps, had a proper signification. The principal use to which learning was then applied was to give intellectual employment to its recipients. The useful sciences and arts scarcely had an existence. Elegance and ease, were almost the universal condition of one class of community, and drudgery and toil that of the other. There was no middle class, to any extent. "Learning" was the chief distinctive feature of the one; and any effort to improve the condition of the other was never thought of—or if thought of was directly frowned upon as a dangerous innovation. In the days of Egyptian civilization this learning was confined to the priests and rulers. During the ascendency of Greece and Rome, it had become more universal; but it was not until long years after those nations had passed away, that the idea of elevating the condition of the working classes, through the aid, directly and indirectly, of science, began to gain ground; and still later that the principle of "universal education," found an advocate. The exclusiveness implied by the term "learning," and recognized in the practice of the "learned," of the present day, is but a relict of past ages, which it is fully time was buried out of our sight.

Education is comparatively a modern term. It is suggestive of progress. It embodies a practical idea. It consists in acquiring that class of information which is calculated to make a man—to make all men—useful, respectable and happy; and each one in that particular line of usefulness which he may have marked out for himself. Human knowledge, in modern times, has become so much more extensive in its range, than it was in past ages, that it is eminently proper we should economize our time in its acquirements, cut off everything which can be omitted without especial detriment, and seek mainly for that class of information which can be made most subservient to our happiness and usefulness. We must not be satisfied simply that any desirable requirement is useful, but we must show that it is the most useful of any yet unattained acquirement within our reach. Were this policy carried out in our schools and universities, we are inclined to think that it would eventuate in a radical change in the entire system of modern education. If we were to express this change in a single sentence, we would term it a change from the study of words and ideas to a study of things and realities.

The great object of education should be to understand one's business and duty in life. When a young men leaves college to take an active part in life how much assistance does he derive from one half of all that he has learned during the last six or seven years of his study? Unless he adopts teaching for his business, and that too, in the same routine through which he has just passed, it is but fair to say that one half of his study has been misapplied.

The business of society is not now carried on by literary men as in former times. The rapid progress in the direction of usefulness and happiness, which constitutes the chief feature of the present age, is not due to literature or a knowledge of the dead languages; but almost exclusively to the practical sciences of political economy, commerce, agriculture, mechanics, chemistry and natural history, branches which scarcely have a hearing in our colleges and academies. The land is full of *classical schools*, munificently supported, while the claims of industrial, or polytechnic schools, until quite recently, have scarcely been able to get a hearing, much less an endowment. The former have their value and should not be altogether neglected; but their place in public estimation and pecuniary consideration should be made most emphatically subservient to the latter.

It is a matter of sincere congratulation that a revolution in public sentiment in this respect, is in silent, but sure progress. Practical science is fast gaining ground in popular estimation over polite literature. This revolution is indicated by the organization of our Mechanics' Institutes, and Mercantile associations, which are coming into existence in all the principal cities throughout the land. These associations seem almost instinctively to prefer science to literature---the real to the ideal. The recent act of Congress making munificient donations of public lands for the establishment of this class of schools exclusively, is but evidence of the embodiment of this growing sentiment among the people. Another encouraging indication of the growth of this idea is the constant multiplication of class papers, devoted to the dissemination of useful information, in commerce, agriculture, mining, mechanics and all the useful arts and sciences. Knowledge is ever delightful to the human mind, but when that knowledge is made subservient to useful purposes, it is doubly valuable as well as most truly delightful. Such "knowledge is power."

Thirst and Hunger.—Every one is familiar with the fact that the animal system can bear up much longer under the influence of hunger than under that of thirst. The reason is that during abstinence from food the organism lives upon its own substance. The accumulation of fat feeds the system, which does not suffer materially until that source of sustenance is exhausted. During abstinence from liquid, the organism has no self-sustaining supply. Except when a person is placed in a very moist atmosphere, three days of deprivation of drink is usually the limit of endurance; while persons have been known to exist without food from fifteen to twenty days. Raging thirst is the most terrible infliction which can be visited upon man—it is far more terrible than starvation. The subjection to thirst is much more effectual in taming animals, than their deprivation of food.

Yankee Doodle.—Layard, in his last work on "Ninevuh and its remains" mentions "Yenghi-dunia," as the Persian name for America, "hence (he adds,) the origin of the name Yankee Doodle."—*Exchanges.*

The above is found in "Notes and Queries," a work of 12 volumes, which contains a mass of rare and curious information not elsewhere to be found. In a work on the "Round Towers of Ireland," the spelling of the Persian word is a little different—"Yanki-dooniah;" and the meaning is given, "Inhabitants of the new world." Perhaps, however, the variation in spelling corresponds with the difference in meaning of the two phrases.—*G. V. National.*

These efforts at Etymology remind one of Dean Swift's satire on the subject. Swift said that Archimedes got his name from his habit of lecturing maidens, to whom he was in the habit of frequently exclaiming, "Hark'e maids." From this circumstance that celebrated individual came to be called "Old Hark'e maids," which in time was corrupted into Archimedes. There is quite as much ground for the derivation claimed by the facetious Dean, as for that set up by "Notes and Queries,' as given above. In the numerous inflections which go to make up all languages, it is manifestly impossible that any two should be without similar sounds. The learned nonsense which was so severely rebuked by Swift, appears to be quite as common now as then.

Chemical Inventions are much less frequently announced in this country than in France or England, more particularly the former country. It is a matter of some surprise that our chemists do not turn their attention more especially to the field of useful invention in their particular department of knowledge. The field is certainly large and most inviting. The only recent invention of this description, for which our chemists can claim any great merit, is the vulcanization of Indin Rubber—an invention which has been of immense pecuniary advantage to the parties immediately interested, to say nothing of its great commercial value.

In another column will be found Prof. Everett's improved mode of smelting lead ore, for which letters patent have been taken out. The improvement promises to be one of considerable importance. It is to be hoped that these examples of success, in this direction, will induce our chemists to turn their attention more particularly in the direction of new discoveries.

Boulder Hill.—The Monitor *Gazette* describes as follows a singular mineral formation in the Monitor District, California:

The hill is separated by a ravine from Diamond Hill on the northwest, and by Eagle Gulch from the hill on the south. It is about three-fourths of a mile from east to west; and averages a half mile in width. It is completely covered with rich gold bearing quartz in the shape of boulders, two of which are estimated to weigh seven hundred tons; from one of them, rock was taken and worked in the arastra now in operation on the north side of the hill, which paid $80 to the ton. No ledge has yet been found in the hill, although a tunnel has already been run four hundred and fifty feet by the Scott's Hill Consolidated Tunnel Company, the contract for that distance having been just completed. These gold bearing quartz boulders are confined to this hill alone, none of the hills on either side having any upon their surface. And the crop apparently will last a 40-stamp mill a century. Wood, Marston & Dudley have an arastra at work in the gulch on the northwest side of the hill, in which they work about two tons of the rock per week, the yield from which has never varied much from $80 per ton, none of the silver being saved. The gold brings at the assay $14½ per ounce. The silver found in the rock upon assay being only about $2 per ton, the parties who are working it are not attempting to save it, as the cost would be about $8 per ton. The owners of this rich surface deposit have no prospecting to do; they have only to erect their crushing works and take out their piles. Luck is everything. The rock appears to have been subjected at some period to a great heat, which leads us to believe that it is a chimney from a monster ledge.

Since the inauguration of the Rebellion, about 600,000 brave lives have been sacrificed on the field of battle and its attendant incidents.

Mechanical Department.

HOME INDUSTRY.

We this week return to the branch of industry we started with; for doing which we need offer no apology, inasmnch as our ironworks, so far as the questions of capital and labor go, constitute the most extensive and important branch of industry amongst us; and for that reason, we are desirous of doing them all justice. It is true there are other manufactories in the city, creditable to us as a people, such as sugar, gas, marble, paper, glass, pickle, and chemical establishments, which we find exceed our own expectations, and if our friends will only have a little patience (for really it is quite a labor) we hope in the end to give them all satisfaction.

FULTON FOUNDRY.

These works were established in 1855, by the present proprietors, Messrs. Hinckley & Co., and have never, we understand, changed hands. They are not so large ns some already noticed, but in each department they are eqnally complete. They employ fifty-five hands, and consnme per month 108,000 ℔s. of iron for casting; 8000 ℔s. of wrought iron; 14 tons of coal for melting; 12½ tons of steam coal; and 3½ tons of forge coal per month, with a large amount of lumber for the usual purposes. Their largest casting weighs three tons, although tbey have a capacity for six. To meet the demands of their increasing business, the firm are putting up a splendid new engine of 26 horse power.

Their principal business is mill machinery of every description. A large proportion of the sawmills of the State, have been supplied with machinery from the Fulton. They are now manufacturing a large number of Prater's concentrators, which, in treating sulphuret ores, are acknowledged to be very effective. They are beginning to be extensively used, having already been introduced into such establishmeuts as those of the Ophir, Eclipse, and Hornitos Cos. and many other mills in the State, Territories and Mexico. We understand they give general satisfaction.

The Fulton has also turned out a large number of steamboat engines, the principal of which was for the opposition steamer "Annie Stewart," in praise of which it is unnecessary for us to speak. It is a poppet valve engine ot the Mississippi river style, and the first of the kind built in this State. They also manufacture stationary engines from six to 175 horse power.

This foundry enjoys a high reputation. The city is adorned with ornamental castings, and the State benefited, by the enterprise of its proprietors. We can personally bear testimony to the satisfaction their workmanship gives throughout our mining community. The visitor, whether it is his business to purchase, or inspect the works, will always receive at the Fulton the greatest politeness, and attention.

THE ATLAS FOUNDRY.

This establishment, situated on Fremont street, near Market, is of very recent date, being commenced only in May, 1864, by Messrs. Scott & Co., the proprietors, and is another glorious instance of the wonderful thrift and enterprise of our working mechanics. Though only two months old, it has taken a firm root in our midst, and judging from present appearances, promises to have a brilliant carcer. The works, of course, are still in a very incomplete condition; but they are evidently intended to be large and effective. They employ fourteen hands regularly, and have a capacity for casting seven tons. The first week they consumed 30,000 ℔s. of iron; and even now, when the "great strike" is over, and all our foundries again at work, their monthly consumption is quite large for so young a firm. This foundry is under the charge of Mr. Llewellen, one of the owners, a self-made, practical mechanic.

The principal object of interest here is a locomotive of 26-horse power, which they are building for Charles Minturn, one of our wealthiest citizens, to connect with his Petaluma steamer. In running order it will weigh about 10,000 ℔s., and cost about $5,000. They are also fixing up two freight cars, 20 feet long hy 8 feet wide, capable of carryiug 10 tons. The passenger cars were built hy Casebolt & Co., of this city, and are intended to possess every comfort and convenience. This is quite an enterprise, and reflects great credit on all concerned. It is well known that the steamer cannot run up to the town of Petaluma; so Mr. Minturn is building a rail-road three miles long, to connect the two; and San Francisco, represented by these spirited youug mechanics, supplies the principal material.

Such are the men who build up our country, and mature its growth with such rapidity. Of such our city, especially in this branch of industrial art, is full, and we congratulate our young friends, that they are thns soon associated with the great public works for which, as a people, we are justly celebrated. L. H.

HEAT AND FORCE.—In our last issue we gave some familiar illnstrations to prove that whenever heat is produced, it is in each measure to the force expended in recovering the friction. We now subjoin some additional facts illustrative of the conversion of force into heat:—

When a ball is discharged from a gnn and strikes an object, it is found that both the ball and the object struck, have risen in temperature. If the force is sufficiently great you cannot touch the ball, it is so hot; and just in proportion to the power of the gun will be the heat of the ball. If the power be sufficiently great, the heat may be so intense as to bring it to a white heat and melt the ball. The meteoric stones that sometimes fall to our earth may be regarded as balls, but moving with much greater velocity. They strike against our atmosphere with so much force that the force is converted into heat, so intense that they glow or become incandescent. Suppose our earth, in its revolution, struck against some opposing object like a target, what would be the consequences? The force would he converted into heat, and the velocity is so great—twenty miles a second—that would be immediately brought to the melting point. It would glow like the sun, and become a luminous body. The heat would be equal to that produced by the burning of fourteen earths made of coal. But this is not all. It would then fall into the sun, and would by its loss of momentum produce a heat four hundred times greater than before, and it would be seen on the sun's disc as a bright luminous spot. The force of the earth falling upon the sun would communicate a heat to the sun equivalent to the heat emitted by the sun in a century. It would serve as a fuel for that length of time. Now, the heat of the sun is most probably due to this source, the conversion of power into heat. It is probable that it is combustion. If the sun were composed of coal, it would last at the present rate only five thousand years. The sun, in all probability, is not a burning but an incandescent body. Its light that of a glowing molten metal rather than of a burning furnace. But it is impossible that the sun should constantly be giving out heat, without either losing heat or being supplied with new fuel. We know the heat of the sun. Each point is about thirty times hotter than the furnace of a locomotive, that is, a square foot of the sun's surface gives thirty times more heat than a square foot of grating in a locomotive. Yet the mass of the sun is so great that it would require three thousand five hundred solar systems, if made of coal, to account for the heat of the sun. Assuming that the heat of the sun has been kept up by meteoric bodies falling into it, and proof has been given of such fall, it is possible from the mass of the solar system to determine approximately the period during which the sun has shone as a luminary. On boarding a steamer you can on examining the hold for coals, and ascertaining its capacity, tell approximately how long she has been on her voyage. Limits can be set to the fuel of the solar system, and therefore limits can also be assigned to the existence of the sun as our luminary. The limits lie between one hundred millions and four hundred millions of years.

These are enormous periods, but still they are definite. The mass is so great, and the cooling is so slow, that, even on the supposition that no fuel was added, it might be five or six thousand years before the sun cooled down a single degree.

AN AGE OF STEEL.—We seem to he entering upon an age of steel. The recent improvements in the process of making steel bid fair so to reduce its price as to render its application practicable for a great number of purposes where wood and iron have heretofore been used. By the Bessemer process, steel can he made of almost any quality, hard or soft, by simply arresting the process at any particular stage. Steel cannon, steel shot and shell, steel boilers and steel ships, are now finding their way into use, being preferable to iron, in many cases, in consequence of their comparative lightness and durability.

THE PLOW.—It is not known where he who invented the plow was born, or where he died; yet he has effected more for the happiness of the world than the whole race of heroes and conquerors who have drenched it with tears and manured it with blood.

New Mode of Smelting Lead Ores.

Prof. A. H. Everett, of New York, has just brought to perfection a very neat improvement in the reduction of lead from galena, by which a considerable saving in expense is effected. One of the common methods of reducing this ore is to mix it with iron in a reverberatory furnace; the sulphur at a high temperature, having a stronger affinity for iron than for lead, leaves the lead and combines with the iron, forming sulphide of iron, while the lead is drawn off as a separate metal.

At the present time, however, the high price of even iron scraps (about $40 per ton) induced Prof. Everett to look about for some substitute, and it occured to him to try the waste tin scraps of the tin plate-workers; in these he has the very best of wrought iron, and in a form exposing the largest surface for the action of the sulphur. The tin scraps, being a waste product, can be had at a nominal cost. After a series of experiments the practical dificulties of the new process were overcome, and now several tuns of ore are being smelted by it daily at Prof. Everett's furnace, at the foot of Horatio street in this city.

The operation is extremely simple. Five hundred pounds of the sulphide of lead ore mixed with 125 lbs of tin scraps in a reverberatory furnace, and kept at an intense heat; the charge being stirred every 15 minutes. In from one to two hours the whole mass becomes fluid, and the reduction is complete. It is found best to introduce one half the charge of tin scraps, and allow it to become red hot, when the ore and the remainder of the scraps are added.

Besides the cheaper and more rapid reduction of the ore by this process, the tin of the scraps is mixed with the lead, increasing the yield, and for many purposes improving the quality. Prof. Everett has secured a patent for this valuable invention.—*N. Y. Exchange.*

THE HYDROSTATIC ENGINE of Mr. Hansbrow, a new invention which we have already described, appears to be attracting considerable attention in Sacramento. The inventor has had a working model constructed, with a cylinder of one inch diameter, and two inch stroke, which he designs sending to Europe. It has been tried, and with a pressure of only twenty-eight feet, made two hundred and ten revolutions per minute. Of several witnesses of the trial, who pride themselves on their muscle, not one could stop the engine. It will be exhibited in a few days in a public place, so that all may have an opportunity of witnessing it in operation.

A WATER CLEARER.—J. N. Andrews, connected with the Sacramento Water Works, says the *Star*, has invented a very simple apparatus for clearing and purifying our city water without filtering. In fact, the water is made to clarify and purify itself on philosopical principles—a beautiful illustration of the compensatory operations of nature. There is not an article of machinery about the apparatus that can possibly get out of order. It is consequently, ever in readiness to operate, and ever yields clear water. It is an invention that will be invaluable to all classes of citizens, and should become of general use.

FINE CLAY AS A DRESSING FOR SORES.—Dr. Schreber, of Leipzic, recommends the use of clay as the most "energetic the most innocent, the most simple, and the most economical of palliative applications to surfaces yielding foul and moist discharges." He moreover considers that it has a specific action in accelerating the cure. Clay softened down in water, and freed from all gritty particles, is laid, layer by layer, over the affected part to the thickness of about a line. If it becomes dry and fall off, fresh layers are applied to the cleansed surface. The irritating secretion is rapidly absorbed by the clay, and the contact of air prevented. The cure thus goes on rapidly. This clay-ointment has a decisive action in cases of fœtid perspiration of the feet or arm-pits. A single layer applied in the morning will destroy all odor in the day. It remains a long time supple, and the pieces which fall off in fine powder produce no inconvenience.

OUR STATE.—California contains as many square miles as the six New England states, and has a greater extent of sea coast than all the northern states bordering on the Atlantic. No state in the Union has such a diversity of soil—of extreme barrenness and extreme fertility; a climate in which all the products of tropics and temperate zones are blended; a land of inexhaustable mineral wealth; a home where the weary and disappointed from other lands can find peace and plenty, if they are lucky.

THE New Bedford Standard says both the locomotive manufactories at Taunton have been forbidden for the past six months to build engines for other parties than the United States.

Patent Department.

TAMPING BARS.—Abner Dobb, of this city, has obtained a patent for a tamping bar, which consists in arming the end of a common iron bar with copper, or an alloy of copper or other metal, which will secure the operator from the danger of premature explosion.

SCOVILL'S NEWLY INVENTED QUARTZ MILL, of which we gave a full description several weeks since, has been taken to Washoe, where it will be put up in the Silver State Reduction Works, at Empire City belonging to the Mexican Company. This mill will there be subjected to a thorough practical test as to its durability and effectiveness. It would be well for all inventors to thus subject their machines to a practical test at once. If they succeed, all is well; while if they fail the fact will the sooner become known, and much to the benefit of all parties.

A NEW CRUSHING MILL.—Mr. Fauchery, of this city, has made application, through the agency connected with this office, for a patent for a new Stone Crusher, which operates on a plan somewhat different from any now in use. The jaws are so arranged as to resemble an enormous pair of pincers, working crosswise, the motion being applied by an oval wheel or ear, made to revolve between the arms, closing the jaws at each revolution, the process of opening being managed by a spring. The machine has every appearance of being practical and effective. It is certainly simple and cheap in construction. It will be known as "The Croendile Machine," from the fact that its nameshe alone, of amphibious animals, makes use of both jaws in mastieating.

HINKLE'S IMPROVED QUARTZ MILL.—We have examined the drawings of the above mill, the invention of Mr. Philip Hiokle, of this city. The mill is designed upon an entirely new principle. A crushing machine is used for the first reduction of the rock to about the usual size of marbles. From this it passes into a reduction mill, which consists of a close iron cylinder, within which wheels, similar to the wheels of a Chili mill, are made to revolve with a rapid motion, accomplishing the work of reducing the ore to a fine pulp in a very short period of time. Mr. H. has an amalgamator and separator of peculiar construction attached to the mill, also of his own invention. Letters patent for inventions have been applied for through the agency connected with this office.

NEW MINING INVENTION.—The New York papers are calling attention to a new mining invention for separating ores, which is on exhibition in that city. The machine is known as "Stetefeldt's continuous concentrating machine. The machine is said to be an improvement on the old fashioned shaking-table and is said to possess the following advantages:—

1st. It discharges the concentrated ore continuously, so that it need not be stopped and emptied as is the case with shaking-tables.

2nd. It makes a remarkably clean division of the ore, discharging (for instance) Galena, Pyrites and Zinc Blende at their separate points, and obviating, almost entirely, the necessity of repeated dressings.

3d. It can be adjusted to suit any kind of ore and to accomplish any desired division, provided there be a difference of specific gravity between the substance to be separated.

INDIA RUBBER SHIRT COLLARS.—J. W. Smith, of Sale, England, has taken out a patent for the manufacture of shirt collars, cuffs, wristbands, etc., of vulcanized india rubber. Steel collars, we presume, will now be left entirely to the canine race.

A BELGIUM paper says that petroleum oil lamps are affected by music—a certain note on a brass instrument puts them out. M. Duhem extinguished eight lamps in succession by the sound of a trumpet. He was one of the late M. Jullien's band, and is professor at the Brussels Conservatoire of Music. These petroleum lamps, probably, were unable to appreciate the music of M. Duhem.

The Mining and Scientific Press Patent Agency.

OFFICE, 57, GOVERNMENT HOUSE, SAN FRANCISCO.

Information About Obtaining Patents.

The Patent Law Amendment Act, of March 4th 1861, and March 3d 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent, And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent? A positive answer to this question is only to be had by presenting a formal application for patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the MINING AND SCIENTIFIC PRESS. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Preliminary Examinations.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search made at the U. S. Patent Office, Washington, through the medium of our associate in that city, to ascertain whether among all the patents and models there stored, any invention can be found which is similar in character to that of the applicant. On the completion of this special search we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollars. This search, though it involves the expense just named, will usually prove satisfactory. If the same device has been before patented, the time and expense of constructing models, preparing documents, etc., will in most cases be saved; it the invention has been in part patented, the applicant will be enable to modify his claims and expectations accordingly. Many other obvious advantages attending the Preliminary Examination; although the strictest search does not always enable the applicant to know positively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publication; or some other person has been previously rejected on an analogous device or some other invention for a similar purpose, but partially resembles the applicant's in its construction; or the Government makes an unjust or uncommon decision. Against none of these contingencies does the Preliminary Examination provide; it will, however, generally inform the applicant whether an improvement similar to his and used for the same purpose has ever been patented or not in this country.

Persons desiring the Preliminary examination are requested to remit the fee ($10), and furnish us with a sketch and description of the invention.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on prosecuting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens The only discrimination made is against subjects of government that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing papers, attending to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues.—If the application is rejected we cause a thorough investigation to be made into the reasons prescuted to the Commissioner for refusing the patent. In making this examination, we have exceeding all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client. For this service we make no charge. If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent, but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to favor us with the papers of our unsuccessful facilities securing favorable results. We have been successful in securing Letters-Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The laws requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimensions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: DEWEY & Co., Mining and Scientific Press, rooms 56 and 57, Government House, corner of Sansome and Washington Streets, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first instalment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail—The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due, and will be called for. The case will then be presented to the Patent Office, and as soon as the pateat is ordered to be issued, the applicant will be notified to remit the last instalment of the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months and even more. We make a special point to forward our cases as rapidly as possible.

Return of Models.

Under the new law, if the applicants case has been rejected he is entitled to withdraw his model from the Patent Office.

This law applies to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expense

Application for Patents, Designs, Trade-Marks, Labels, etc.

Under the new law patents may be taken out for any new form of any article, also for tools, patterns, castings, machine-frames, stove-plates, borders, fringes, all new designs for printing, weaving or stamping upon silks, calicoes, carpets, oil-cloth, prints, paper-hangings, and other articles. Trade-marks, labels, envelopes, boxes and bottles for goods, may also be patented; likewise all works of art, including prints, paintings, busts, statues, bas-relief, or compositions in alto, or basso relievo, new dies, impressions, ornaments to be placed upon any article of manufacture, architectural work, etc.

Our facilities for the prompt preparation and securing of patents are of the most extensive character and our charges are very moderate.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the tariff of fees established by law:

On every application for a design, for 3 years and six months...	$10
On every application for a design, for seven years	15
On every application for a design, for fourteen years	30
On every caveat	10
On every application for a patent	15
On issuing each original patent	20
On filing a disclaimer	10
On every application for a re-issue	30
On every additional patent granted on a re-issue	50
On every application for an extension	50
On the grant of every extension	50
On appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, D. C.	25

Infringements.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunction from the Court, to an arrest of or prohibition from the employment of his machinery, shop, works, factory and men in production of the article.

In addition to injunction the infringer is liable to be mulched in treble the amount of damages awarded by the jury. The maker, the workman, the seller, and the purchaser, if a user, are all liable either collectively or individually.

Having access to all the patents, models, public records, drawings and other documents pertaining to the Patent Office, we are prepared to make examinations and give opinions upon all infringement questions, advise as to the scope and ground covered by patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Appeals.

In rejected and other cases, the new law provides for an appeal from the Examiner-in-chief to the Commissioner in person, on the payment of a fee of twenty dollars. A further appeal may be taken from the decision of the Commissioner to the U. S. Court, of the District of Columbia. These appeals are heard by any of the Judges before whom the applicant elects to bring the case. No Jury. All the papers, models, etc., are sent by the Commissioner to the Judge, who hears and reviews the case, and either sustains or reverses the Commissioner's decision.

The party taking the appeal pays an additional fee of twenty-five dollars. The Judge appoints a day of hearing. The applicant can appear in person or by counsel to state his case and file a written argument. Five days are allowed the opponent to put in an answer, and a similar period to the appelant for a closing reply.

Many important cases are brought before the Judges on appeal and the decisions of the Commissioner are not unfrequently reversed

We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, Government House, corner Sansome and Washington streets, San Francisco.

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. THE MINING AND SCIENTIFIC PRESS PATENT AGENCY has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

Notice to James M Ross, or his Heirs:—You are requested to call at this Office, where information of importance awaits you. Said Ross left San Francisco, in June last, for Noyo Ills.

Before Cutting the Leaves of this journal, stitch each No. through the back, or fasten with a large pin, and you will have a paper in the most convenient form possible for reading or reference

We note with pleasure recent improvements in this publication. With the new year, it becomes a sheet of sixteen instead of eight pages, and has a more attractive typographical appearance. C. W. Smith, W. B. Ewer, and A. T. Dewey are the publishers under the title of Dewey & Co. We notice that several distinguished occasional contributors have been engaged to add to the interest and value of the paper. We wish the enterprising contributors continued success. Their influence in the relation to the mining interest of this Coast is excellent and important; and they deserve, as no doubt they will receive, a large patronage from a numerous public, interested in the development of mineral wealth.—*The Evangel, S. F.*

We desire to call the attention of our readers to the advertisement of the MINING AND SCIENTIFIC PRESS, published at San Francisco. It tells its own story, and leaves nothing for us to say, except that it is the best journal of the kind now published, and ought to be patronized liberally by the merchants, miners and scientific men generally on the Pacific coast. The editors are reliable gentlemen, and well qualified for the task they have undertaken.—*North San Juan Press*

Black Sheep.—James H. Shepard, having received subscriptions for this paper in May last, and failed to account to us for the money received, we are under the necessity of announcing him as a "defaulter." Parties holding his receipt, prior to this notice, for the PRESS will be supplied with the subscription due by addressing us.

We are pleased to welcome this excellent paper in its handsome new dress and enlarged proportions, the energetic proprietors having commenced its eighth volume with a double-sheet.—*Jone Chronicle.*

This valuable mining journal comes to us this week in a new dress and wears a very happy face. The improvements in that paper cannot but bespeak for it a liberal patronage of all those interested in mining—and who is not in this age and country?—*The Gleaner.*

Mr. A. T. Dewey, a journalist of experience, has become associated with Messrs. Ewer and Smith in the proprietorship and conduct of this paper. It inaugurated the new year by doubling its size and other improvements, and is now a first class journal for miners and mechanics, as well as for the general reader.—*Sacramento Daily Bee*

COMPLIANCE WITH LAW.

THE PHŒNIX

INSURANCE COMPANY,

—OF—

Hartford, Conn.,

HAS MADE FULL COMPLIANCE WITH THE STATE LAW BY DEPOSITING

$75,000

With Messrs. Banks & Co., Bankers, and holds

Controller's Certificate of Authority.

The patronage of the insuring public is respectfully solicited for this first-class American Insurance Company.

AGENTS IN ALL CITIES, TOWNS AND VILLAGES.

R. H. MAGILL,
General Agent.

CITY OFFICE—James King of William Building, Southwest corner of Montgomery and Commercial Streets, (Entrance. No. 603 Commercial.)

L. B. DELL, Resident Agent.

I. FRANK, City Solicitor. 20-tf

A. S. HALLIDIE & CO.,

WIRE ROPE MANUFACTURERS.

Established 1857.

Office, No. 412 Clay street—Works, North Beach, SAN FRANCISCO.

After seven years' use throughout the State of California and the Pacific Coast generally, we can confidently recommend Wire Rope for

HOISTING FROM DEEP MINES,
GUY ROPES FOR DERRICKS, &c.,
STANDING RIGGING FOR SHIPS,
FERRY ROPES FOR FERRIES,
SASH CORD FOR WINDOW SASHES,
ETC., ETC., ETC., ETC., ETC., ETC

It being Cheaper, Stronger, Lighter and More Durable than any other kind of Rope, and not stretching or shrinking by atmospheric changes.

MINING COMPANIES, by using it for Hoisting Purposes, save 66 per cent. on their outlay for other ropes.

Wire Fencing Strand,

For fencing large parcels of land—permanently, economically and expeditiously. Manufactured in any length desired.

Pamphlets containing weight, strength and price, forwarded free application to the Manufacturers.

WIRE SUSPENSION BRIDGES AND AQUEDUCTS

We are prepared to erect, of any span and capacity, and take pleasure in referring those interested to the many structures of this kind built by us in California, Oregon and British Columbia, of span from 200 to 400 feet. 3-3m

Owen's River Canal Company.

CAPITAL STOCK.....$1,000,000

10,000 Shares.....$100 per Share.

A PORTION OF THIS STOCK IS NOW OFFERED TO THE PUBlic, and recommended as an Investment.

Full Paid and Unassessable Stock,

Also Assessable Stock, can be obtained of A. J. DOWNER & CO., the authorized Agents of the Company, 406 Montgomery Street.

President.....R. S. WHIGHAM.
Secretary.....W. FISK HITCHCOCK.
Treasurer.....MONTGOMERY GODLEY.
Superintendent.....WILLIAM FLEMING.
Engineer.....J. E. CLAYTON

TRUSTEES:

R. S. WHIGHAM, formerly of Whighma'a Mill,.....Nevada City.
WILLIAM FLEMING.....of San Francisco.
SPIER RIDDEL.....Paying Teller of Parrott & Co's.
ISAAC SWAIN.....of A. J. Downer & Co.
WILLIAM P. PRATT.....of Nash & Fogg

Office of the Company 328 Montgomery Street. jlti

JOHN TAYLOR,

—IMPORTER AND DEALER IN—

Druggists' and Chemists' Glassware,

And a Full Assortment of Assayers' Articles.

—INCLUDING—

Bullion and Assay Ballances, Furnaces, Muffles, Crucibles, Cupels, Acids, Etc., Etc.

Also—A Full Assortment of Reagents.

JOHN TAYLOR,
2-tf 514 Washington St., Up Stairs, San Francisco

SQUARZA'S PUNCH.

FIRST PREMIUM

AT THE SACRAMENTO AGRICULTURAL STATE FAIR FOR THE YEAR 1862.

ALSO; FIRST PREMIUM

At the San Francisco Bay District Agricultural Fair, 1862.

MANUFACTORY, WHOLESALE AND RETAIL,

No. 44 Leidsdorff street, opposite the What Cheer House,

j2-tf San Francisco.

Mining Laws and Forms

JUST PUBLISHED, BY H. H. BANCROFT & CO., BEING A compilation of the Statutes of this State relating to Mining Corporations, Assessments, etc., with a digest of decisions of the Supreme Court and Forms of the Incorporation of Companies. Compiled by H. B. Congdon. 12mo., flexible cloth. $1,50. For sale at all the Bookstores. sep14-tf

Vivian Gold and Silver Mining Company, Blue Sulphur Springs District, Lyon county, N. T.

The second annual meeting of the Stockholders of the Vivian Gold & Silver Mining Company, for the election of Trustees for the ensuing year, will be held at the office of the Company, 728 Montgomery street, on Wednesday, July 6th, 1864, at 3 o'clock, P. M.

24-4t HENRY S. FITCH, Secretary.

Delta Gold and Silver Mining Company. Saratoga Gold and Silver Mining Company, Amador District, Lander county, N. T.

At a meeting of the Trustees of the Delta Gold and Silver Mining Company, and the Saratoga Gold and Silver Mining Company, held March 28th, 1864, an Assessment of (50) fifty cents per share was duly levied on the Capital Stock of each of said Companies, payable immediately, in U. S. coin, to the Secretary, or to Wm. G. Blakely, at the mine. By order of the Board of Trustees.

WM. HOLLIS, Secretary.
24-4t No. 302 Montgomery street.

Constitution Gold and Silver Mining Company, Lauder county, N. T. Office, No. 20, Exchange Building, cor. Washington and Montgomery streets, San Francisco, Cal., June 11th, 1864.

Notice is hereby given, that in accordance with the laws of the State of California, there will be sold at public auction, at the salesroom of Jerome Rice & Co., 327 Montgomery street, San Francisco, on WEDNESDAY, July 13th, 1864, at 11 o'clock A. M., of that day, to the highest bidder, for cash, in U. S. gold coin, so many shares of the Capital Stock of the Constitution Gold and Silver Mining Company standing in the names of the following shareholders as will be necessary for the payment of the Assessments due thereon, together with the expenses of advertisement and sale, unless said Assessments with accruing charges are previously paid, to wit:

Names.	No. Assts.	No. Shares.	Amt.
John Murphy	1 2 3	77	$79 00
Geo Cattermole	1 2 3	246	244 50
Jas S Whitton	1 2 3	164	163 00
W R Barnes	1 2 3	164	163 00
Wm Rose	1 2 3	246	244 50
Johu A Veateh	1 2 3	82	81 50
H A Wall	1 2 3	82	81 50
E S Davis	1 2 3	41	40 75
O A Palmer	3	102	51 75
E P Peckham	3	77	38 50
J S Kennedy	3	82	41 00
Lymaa Beecher	3	35	15 00
J B Crockett	3	82	41 00
P C Lander	3	82	41 00
Julius Schultz	3	3	1 50
H S Waldroa	3	10	5 00

By order of the Board of Trustees.
24-4t JOS. C. FORD, Secretary.

Mt. Vernon Gold and Silver Mining Company, Smoky Valley Mining District, Lander Co., N. T.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 7th day of May, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names,	No. Cert.	No. Shares	Amt.
J W Taylor,	1	5	$ 2 50
J W Taylor,	2	5	2 50
J W Taylor,	4	10	5 00
J W Taylor,	16	50	25 00
J W Taylor,	17	50	25 00
J W Taylor,	18	5	2 50
J W Taylor,	19	5	2 50
J W Taylor,	20	10	5 00
J W Taylor,	21	10	5 00
J W Taylor,	22	40	20 00
J W Burnham,	23	10	5 00
J W Burnham,	24	10	5 00
J W Burnham,	25	10	5 00
J W Burnham,	26	20	10 00
J W Burnham,	27	50	25 00
J W Burnham,	31	100	50 00
Jas M Allen,	28	10	5 00
Jas M Allen,	29	90	45 00
Winnie E Fallon,	30	10	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 7th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at public Auction, at the Office of the Secretary, on the 25th day of June, 1864, at the hour of 11 o'clock, A. M., of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

WM. H. DUDLEY, Secretary.

Office, No. 523 Montgomery Street, San Francisco.
24-4t.

Phœnix Gold and Silver Mining Company, Reese River District, N. T.

NOTICE is hereby given, that on Thursday, July 14th, 1864, at 11 A. M., at the Office of the Company, No. 305 Montgomery Street, San Francisco, there will be sold to the highest bidder for cash, so many shares of the Capital Stock of the above named Co., standing to the credit of the following named persons, as will be necessary to pay all assessments now due, together with costs of advertising and expenses of the sale, unless the same shall have been previously paid, to wit;

Names,	No. Cert.	No. Shares	Amt.
Charles Hoffman,	16 85 201 202,	31	$15 50
Ignatz Kipp,	115 117 205	34	17 00
Chas Schmitt,	31 127	15	7 50
Joseph Fitzler,	23	10	5 00
H L Joaquinson,	191	2½	1 25
Catherine Feagain,	103 104	15	7 50
F W May,	107	5	2 50
M Schwob,	130	15	7 50
D W Levan,	135	9	4 50
Charles White,	155	10	5 00
M Cook,	164	10	5 00
M Lyon,	168	5	2 50
G Bittmich,	170	10	5 00
C Bailes,	5 193 194 195,	132	66 00
George Metzgar,		5	2 50
W A Smith,	35 137 185 186 187,	76	38 00
B A Sheldon,	51 52 53	25	12 50
A K P Smith,	112 113 114 121	31	15 50
A M Harkness,	166	10	5 00

By order of the Trustees, ROBT. T. POLK, Sec't'y.
24—4t. Office, No. 305 Montgomery street, San Francisco

RICHARD WEGENER,

Accountant, Mining Secretary,

AND GENERAL AGENT.

No. 204 Montgomery St., Southeast cor. Montgomery & Pine Sts.,
11-m SAN FRANCISCO.

BLASTING POWDER!

Prime Blasting Powder, on Consignment

And for sale in lots to suit purchasers, by

J. S. CURTIS,
6v8tf. No. 405 Front street, San Francisco.

WHEELER'S

Amalgamating and Separating Pans

IT IS ACKNOWLEDGED BY ALL WHO HAVE EXAMINED THE principles and witnessed the operation of these Pans, that they are decidedly superior for triturating and amalgamating purposes to any other in use.

The most important principle connected with the operation of these Pans is the separation of the triturating process from that of extracting the amalgam from the sand. The chief cause of loss of the precious metal arises from the passing off of the same in combination with the quicksilver, during the process of trituration, and in cleaning up. By the introduction of the Separating Pan to follow the triturating, this loss is entirely avoided. In working these machines there is no appreciable loss of quicksilver, and hence none of the precious metals.

Where these Pans have been introduced and operated by the side of others on sands from the same vat, the Wheeler Pans have uniformly gained a large percentage of metals, over its competitors, as well as a still larger percentage in the amount of work performed.

***These Pans may be seen in daily operation at the Miners, Foundry, on First street, San Francisco, where all interested are invited to call and examine for themselves.

no16-tf ZENAS WHEELER.

To Quartz Miners.

ALL PERSONS INTERESTED IN MINING MACHINERY ARE invited to call at Donahue's Foundry and examine my improved Amalgamator. It is unquestionably superior to anything now known for amalgamating Silver and Gold. It works 1000 pounds at a time, and will amalgamate over three tons a day. By the motion of the revolving muller, the pulp is drawn through its centre and passes under it, between the grinding surfaces, to the circumference; from whence it passes again over the muller to the centre, through the holes and between the grinding surface to the circumference as before. Thus a constant circulation of the pulp is kept up, bringing the particles of ore again and again under the muller, and reducing the whole mass to an impalpable powder.

No quicksilver lies between the surfaces to be ground, but at the circumference and centre of the pan where the metal must pass through it as the pulp circulates.

A patent was granted for this Amalgamator in December last, and all persons are again warned against purchasing machines made at the Miners' Foundry, called "Wheeler's Amalgamator," as they are an infringement on my patent, and a suit is now pending in the U. S. Circuit Court against the parties infringing. My Amalgamators can be seen running at Donahue's Foundry, where all can judge of their operation and the very superior style in which they are being manufactured. THOMAS VARNEY.

sep21

Great Western Gold and Silver Mining Company.

Notice is hereby given, that there are delinquent upon the following described stock, on account of assessment No. one (1) levied Nov. 17th, 1863, and assessment No. two (2) levied March 17th, 1864 the several amounts set opposite the names of the respective share holders, as follows:

Names.	No. Certif.	No. Asst.	No. Shs.	Am't
E. D. Spencer	32	1 & 2	10	$9 00
E. D. Spencer	no cer	1 & 2	140	126 00
James Collins	31 & 51	1 & 2	35	31 50
James Collins	no cer	1 & 2	42	38 25
M. P. Holmes	63, 64, 65	1 & 2	25	22 50
C. B. Genung	no cer	1 & 2	150	135 00
W. R. Stearns	no cer	1 & 2	150	135 00
E. D. Merriam,	55, 56, 57, 58, 59, 66	1 & 2	90	81 00
J. W. Beauchamp	no cer	1 & 2	150	135 00
E. Minturn	no cer	1 & 2	150	135 00
M. H. Kimball	no cer	1 & 2	150	135 00
J. P. Davidson	no cer	1 & 2	150	135 00
J. R. Hughes	49	2	150	37 50
John Scott	28	2	3	75

And in accordance with law and an order of the Board of Trustees made on the 20th day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, on the 29th day of June 1864, at the hour of 12 o'clock M, of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale. BROCK JOHNSON, Secretary.

Office, No. 28 Government House, corner Washington and Sansome Street, San Francisco. 22-5t

Agamemnon Gold and Silver Mining Company. Location, Inyo District, Tulare County, California.

NOTICE.—There is delinquent upon the following described stock on account of assessments of twenty-five cents per share duly levied by order of the Board of Trustees of the above named Company, on the 30th day of October 1863, the several amounts opposite the names of respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amt.
Allen Caswell	1	10	$2 50
Allen Caswell	158	70	17 50
Allen Caswell	not issued	1	25
D. C. Noreross	not issued	19	4 75
P. M. Randall	not issued	29	7 25

And in accordance with law, and an order of the Board of Trustees made on the 24th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on Wednesday, July 6th, 1864, at 12 o'clock, M., of said day, to pay said delinquent assessments, together with the costs of advertising and expenses of the sale.

J. F. MILLEB, Secretary.

Office, No. 416, Washington street, San Francisco. 22-4t

Engineer.

A situation is wanted by a competent Engineer, who is prepared to pay particular attention to all kinds of work connected with civil mining and constructing Engineering. Companies requiring a practical Engineer, Surveyor or Draughtsman will do well to communicate.

Address "ENGINEER," Office of the Mining and Scientific Press, San Francisco. 22-tf

WANTED,

Gold Quartz suitable for Cutting Jewelry.

By FRONTIER & DEVIERCY.

437 Pine Street, San Francisco.

an31tf.

Scorpion Silver Mining Company, Virginia District, Nevada Territory.

Notice is hereby given, that, in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Scorpion Silver Mining Company, there will be sold, at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on SATURDAY, May 28th, 1864, at 11 o'clock A. M. of that day, to the highest bidder, for cash, in U. S. coin, so many shares of the capital stock of said Company, standing in the names of the following shareholders, as will be necessary for the payment of an assessment of twenty-five cents per share, duly levied thereon by the Board of Trustees on the 21st day of March, A. D. 1864, and assessments previous thereto, together with the expenses of advertisement and sale, to wit:

Names.	Shares.	Assessments—No 20	No 21	No 22	No 23	No 24	No 25	Amt due,
B Bayerque	12						$3 00	$3 00
J T Hartwell	16					4 00		4 00
J L Bufford	59				14 75	14 75	14 75	44 25
S F Bufford	24						6 00	6 00
C Broad	10						2 50	2 50
F Boillean	10			2 50	2 50	2 50	2 50	10 00
Mrs L G Baker	10		2 50	2 50	2 50	2 50	2 50	12 50
S E Barnard	1			25	25	25	25	1 00
Rebecca Benes	4					1 00	1 00	2 00
S L Cofran	20		5 00	5 00	5 00	5 00	5 00	25 00
L Chopard	2				50	50	50	1 50
L E Coleman	2					50	50	1 00
Chas Clayton	5						1 25	1 25
C Chevallier	16				4 00	4 00	4 00	12 00
F Crozet	19						4 75	4 75
W D Dyer	12			3 00	3 00	3 00	3 00	12 00
— Deutsch	3						75	75
M Eldred Jr	115						28 75	28 75
E D Fensler	8			50	50	50	2 00	3 50
H Fensler	4						1 00	1 00
C Gignoux	10						2 50	2 50
F Henderson	228				57 00	57 00	57 00	171 00
H Hentsch	10			2 50	2 50	2 50	2 50	10 00
B A Hendrickson	5						1 25	1 25
J R Hughes	12				3 00	3 00	3 00	9 00
N T Johnson	12			2 50			2 50	5 00
John Kelly	49				6 00	12 25	12 25	30 50
J B Lafargue	2			50	50	50	50	2 00
W W Morgan	2			50	50	50	50	2 00
John McKewen	9						2 25	2 25
John Paine	3	75	75	75	75	75	75	4 50
Emeline A Paine	3	75	75	75	75	75	75	4 50
M Pratt	2						50	50
P Robinson	100						25 00	25 00
Robt Sherwood	200						50 00	50 00
Herman Smith	10						2 50	2 50
Emma R Scheper	1						25	25
Henry Vollers	5						1 25	1 25
E D Waters	12						3 00	3 00
Eliza A Waters	12						3 00	3 00
Ella Waters	1						25	25

By order of the Trustees. W. H. MARTIN, Secretary.
San Francisco, April 28, 1864. 627 Clay street.

The above sale is postponed until SATURDAY, June 11th, 1864, at same hour and place as above mentioned. By order of the Trustees. W. H. MARTIN, Secretary.
22-td No. 627 Clay street, San Francisco.

The above sale is postponed until SATURDAY, June 18th, 1864, at same hour and place as above mentioned. By order of the Trustees. WM. H. MARTIN, Secretary.
24-td No. 627 Clay street.

The above sale is postponed until WEDNESDAY, June 29th, 1864 at the same hour and place as above mentioned. By order of the Trustees. W. H. MARTIN, Secretary.
26-td No. 627 Clay street.

Wilson Gold and Silver Mining Company.--Location, Echo District, Humboldt county, Nevada Territory.

Notice.—There are delinquent, upon the following described stock, on account of Assessments duly levied by order of the Board of Trustees, on the first day of October, 1863, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amt.
H. G. Blasdell	not issued	300	$300 00
J. W. File	not issued	300	300 00
Abner Wade	17, 18, 19, 20, 21, of 20 shs each.	100	100 00
Abner Wade	23, 24, 25, of 10 shs each.	30	30 00
Abner Wade	26, 27, of 5 shs each.	10	10 00
I. N. Thorne	not issued	75	75 00
Robt. J. Fulton	1, 2, 3, 4, 5, of 10 shs each.	50	50 00
Robt. J. Fulton	6, 7, 8, 9, of 25 shs each.	100	100 00
E. C. Palmer	33	bal due on 37½	28 15
C. A. Uhrig	47	37½	37 50
Thomas Mulcahy	32	5	5 00
Arthur Blaine	36	12	12 00
John Pullee	101	10	10 00
D. P. Winne	102, 103, of 25 shs each.	50	50 00
Edward A. Morse	110	10	10 00
H. F. Notman	61, 62, 63, 64, 65, of 10 shs each.	50	50 00
J. G. Hanson	79, 80, 81, 82, of 50 shs each.	200	200 00
C. M. Batchelder	10	10	10 00
Mrs. E. W. Carey	11	10	10 00
Emma Patten	13	10	10 00
John Brennan	14	10	10 00
Mrs. E. A. Baxter	15	10	10 00
D. H. Kinsey	16	20	20 00
John C. Ing	83	10	10 00
R. G. Carlyle		60	60 00
S. Tyler		120	120 00
B. C. Whitman	75, 76, 77, of 25 shs each.	bal due on 75	40 00

Therefore, in accordance with law, and an order of the Board of Trustees, made on the 2d day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on SATURDAY, July 2d, 1864, at 12 o'clock M., of said day, to pay said delinquent assessments (one dollar per share) thereon, together with costs of advertisement and expenses of the sale.

J. F. MILLER, Secretary.
Office, No. 416 Washington street, San Francisco.

N. B.—Payments may be made at any time before the 29th day of June, to A. Gauchat, at the mine, or to the Secretary, at his office in San Francisco. (21-4t) J. F. MILLER, Secretary.

North Star Mining Company, Santa Catalina Island, California.

Notice.—There are delinquent, upon the following described Stock, on account of assessments levied, on the 27th day of January, 1864, the several amounts set opposite the names of the respective Shareholders as follows, to wit:

Names.	No. Certif.	No. Shares.	Amt
C H Taft	not issued	144	$21 60
J D Nichols	29	144	bal. 10 47
P Ide	74	133	bal. 12 08
I M Merrill	not issued	144	21 60
S C Gardner	not issued	144	21 60
W Diggins	not issued	144	hal. 16 60
Hicks & Carson	52, 53, 54, 55	144	bal. 17 55
Wm J. Woodley	101	75	bal. 18 23
Henry Bush	not issued	144	bal. 21 60
Henry Buab	First assmt. levied Jan. 2		14 40

And in accordance with law, and an order of the Board of Trustees, made on the 31st day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the office of the Secretary, on Wednesday, the 6th day of July, at 12 o'clock, M., to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

A. G. WOOD, Secretary.
23-4t 240 Montgomery street, No. 4, 2d floor, San Francisco.

Illinois Gold and Silver Mining Company, Smoky Valley District, Lander county, Nevada Territory.

Notice is hereby given, that there are delinquent upon the following described stock, on account of Assessment No. 2, levied May 2d, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amt.
Bradshaw, T T	23	10	$5 00
Bemis & Edson,	3	20	10 00
Benelst, T S	24	10	5 00
Brooks, Hy S	87	4	2 00
Brush, R G	25	5	2 50
Brush, R G	52	50	25 00
Brush, R G	61	5	2 50
Cary, James	58	1	50
Cromer, Henry	56	5	2 50
Edson, E W	2	5	2 50
Gable, Henry	96	10	5 00
Gable, Heury	97	20	10 00
Gable, Heury	101	15	7 50
Gray, John	33	10	5 00
Grotjan, G W	92	1	50
Irvine, John	36	10	5 60
Irvine, John	37	10	5 00
Irvine, John	38	5	2 50
Irvine, John	98	10	5 00
Irvine, John	99	10	5 00
Irvine, John	100	10	5 00
Lockwood, J	57	4	2 00
Lusk, C D	4	5	2 50
Marshall, Chas	41	100	50 00
Marshall, Cbas	42	50	25 00
Marshall, Chas	44	10	5 00
Marshall, F'dk	62	25	12 50
Marshall, F'dk	63	25	12 50
Marshall, F'dk	64	25	12 50
Marshall, F'dk	65	25	12 50
Marshall, F'dk	66	25	12 50
Marshall, F'dk	67	10	5 00
Marshall, F'dk	68	10	5 00
Marshall, F'dk	69	10	5 00
Marshall, F'dk	70	10	5 00
Marshall, F'dk	71	10	5 00
Morton, Benj	72	50	25 00
Morton, Benj	73	20	10 00
Morton, Benj	74	20	10 00
Mortou, Benj	75	20	10 00
Morton, Benj	76	10	5 00
Morton, Benj	77	10	5 00
Morton, Benj	78	10	5 00
Morton, Benj	79	5	2 50
Morton, Benj	80	5	2 50
Morton, Benj	81	5	2 50
McGraw, —	60	2	1 00
Nalil, H W A	90	1	50
Odell, J	1	5	2 50
Parsons, S H	45	100	50 00
Parsons, S H	46	50	25 00
Parsons, S H	47	15	7 50
Poole, M M	30	10	5 00
Rogers, Geo P	50	5	2 50
Turner, Geo R	86	2	1 00
Waters, E D Jr	4	25	12 50
Waters, F C	14	25	12 50
Watrous, C	89	2	1 00
Wyman, H A	5	2	1 00

And in accordance with the laws of the State of California, and an order of the Board of Trustees, made on the 2d day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at Public Auction, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on SATURDAY, the 18th day of June, 1864, to pay said delinquent assessment thereon, together with the costs of advertising and the expenses of sale.

GEO. C. HARRIMAN, Secretary.
23-2t Office, No. 622 Clay street, San Francisco.

Postponement.—The above Sale is postponed by order of the Board of Trustees, to SATURDAY, the 25th day of June, 1864.

GEO. C. HARRIMAN, Secretary,
25-2t Office, 622 Clay street.

Diamond Mining Company, Santa Catalina Island, California.

Notice.—There is delinquent upon the following described stock, on account of assessment levied on the 27th day of January, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amt.
C H Taft	not issued	88	$13 20
J D Nichols,	22	58	bal 2 08
P Ide,	55	83	hal 3 68
J M Merrill,	not issued	88	13 20
S C Gardner,	not issued	88	13 20
W Diggings,	not issued	88	bal 8 20
Hicks & Carson,	40, 41, 42	88	bal 9 15
Wm J Woodley,	78	50	bal 1 23
Henry Busb,	not issued	88	13 20
Henry Bush, first assessment, levied Jan. 2, 1864,			8 80

And in accordance with law, and an order of the Board of Trustees, made on the 31st day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the office of the Secretary, on WEDNESDAY, the 6th day of July, 1864, at 12 o'clock, M., to pay said delinquent assessments thereon, together with costs of advertising and expenses of sale.

(23-4t) A. G. WOOD, Secretary.
Office, 240 Montgomery street, No. 4, 2 dfloor, San Francisco.

Rose Matilda Mining Company, Santa Catalina Island, California.

Notice.—There is delinquent upon the following described stock, on account of assessments levied on the 27th day of January, 1864, the several amounts set opposite the names of the respective shareholders, as follows, to wit:

Names.	No. Certf.	No. Shares.	Amt.
C H Taft	not issued	136	$20 40
J D Nicbols	32	106	bal. 9 27
P Ide	75	125	bal. 10 88
I M Merrill	not issued	136	20 40
S C Gardner	not issued	136	20 40
W Diggins	not issued	136	bal. 15 40
Hicks & Carson	55 56 57 58	136	bal. 15 35
Wm J Woodley	105	50	bal. 6 97
Henry Bush	not issued	136	20 40
Henry Bush	First assmt. levied Jan'y 2nd		13 60

And in accordance with law, and an order of the Board of Trustees, made on the 31st day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the office of the Secretary, on Wednesday, the 6th day of July, 1864, at 12, M., to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

A. G. WOOD, Secretary.
23-4t 240 Montgomery street, No, 4, 2d floor.

Noonday Copper Gold & Silver Mining Company, Clayton District, Contra Costa County California.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 5th day of May, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certifs.	No. Shares.	Amt.
W G Wendall	11	50	$10 00
E C Skinner	12	50	10 00
E C Skinner	13	100	20 00
S J Tennant	24	50	10 00
S J Tennant	25	50	10 00
S J Tennant	26	50	10 00
S J Tennant	27	50	10 00
Orin Swan	32	100	20 00
Eban Jordan	34	20	4 00
Nicbolas Larbig	40	50	10 00
E B Mastick	67	200	40 00
P Q Vroom	79	50	10 00
John Taylor	Cert. not issued	200	40 00
John Moul	140	25	5 00
John Moul	141	50	10 00
Nancy Patterson	136	100	20 00
Henry Williamson	124	100	20 00
F A Brewer	121	2	40
Michael Butler	119	25	5 00
Caleb Morgan	118	25	5 00
G W Morgan	104	13	2 60
G W Morgan	103	12	2 40
Nicbolas Larbig	50	50	10 00

And in accordance with law, and an order of the Board of Trustees, made on the 5th day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on the 22d day of June, 1864, at the hour of 11 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

L. E. MORGAN, Secretary.
Office, N. E. corner of Bush and Kearny streets, San Francisco.
San Francisco, June 4th, 1864. 23-3t

POSTPONEMENT.—The above sale is hereby postponed until Monday June 27, 1864, at the same hour and place. By order of the Board of Trustees. L. E. MORGAN, Secretary.
June 10th, 1864. 25-2t

Refugio Mining Company, Jesus Maria, Chihuahua, Mexico.

Notice, there are delinquent, upon the following described Stock, on account of Assessment levied on the 18th of November, 1863, and the 9th day of February, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Sbs.	Am't
Assessment No. 1.			
Martin, A	101	20	200 00
Assessment No. 2.			
Campbell, Robt	3, 93, 94, 169	53	$530 00
Cahill, Ed	13	10	100 00
Burstell, J. M	22, 70, 85, 86, 89, 138, 142, 7	92	920 00
Eastman, C. A	105	100	1000 00
Martin, A	101, 161	24	240 00
Malloy, John	88, 91	25	250 00
McKean, A. C	114, 123	6	60 00
Mowry, Sylvester	16	63	630 00
Smyth, C. F	40, 87, 150	50	500 00
Webb, C. H	155	50	500 00

And in accordance with law, and an order of the Board of Trustees made on the 18th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at public auction at the salesroom of Jerome Rice & Co., No. 327 Montgomery Street, on the 21st day of June, 1864, at the hour of 12 o'clock, M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

COLL DEANE, Secretary.
21-4t Office, Odd Follows Hall, Montgomery st., San Francisco.

POSTPONEMENT.—The above sale is postponed to the 28th day of June, 1864, at the same hour and place. By order of the Board of Trustees. COLL DEANE, Secretary.
24 3t San Francisco, June 7th, 1864.

Charter Oak Mining Company, Santa Catalina Island, California.

Notice.—There is delinquent upon the following described stock, on account of assessments levied on the 27th day of January, 1864, the several amounts set opposite the names of the respective shareholders, as follows, to wit:—

Names.	No. Certif.	No. Shares.	Amt.
C H Taft	not issued	96	$14 40
J D Nicbols	25	86	bal 3 27
P Ide	81	91	bal 4 87
I M Merrill	not issued	96	14 40
S C Gardner	not issued	96	14 40
W Diggins	not issued	96	bal 9 40
Hicks & Carson	45, 44, 46	48	bal 10 34
Wm J Woodley	89	60	bal 8 23
Henry Bush	not issued	96	14 40
Henry Busb	first assmt levied Jany 2d		9 60

And in accordance with law, and an order of the Board of Trustees made on the 31st day of May, 1864, so many shares of each parcel of said stock as may be necessary will be sold at the office of the Secretary, on Wednesday, the 6th day of July, 1864, at 12 o'clock M. to pay said delinquent assessments theron, together with costs of advertising and expenses of sale.

A. G. WOOD, Secretary.
23-4t 240 Montgomery St., No. 4, 2d. Floor.

Pacific Mail Steamship Company.

THE FOLLOWING STEAMSHIPS WILL BE DESPATCHED FROM SAN FRANCISCO IN THE MONTH OF JUNE, 1864.

June 13—CONSTITUTION.....J. T. Watkins, Commander.
June 23—GOLDEN AGE.....Wm. F. Lapidge, Commander.

From Folsom street Wharf, at nine o'clock A. M., punctually,

FOR PANAMA.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company.

A. B. FORBES, Agent P. M. S. Co.,
24-tf Corner Sacramento & Leidsdorff Sts.

Ore Bags.

10 000 HAND SEWED GOLD AND SILVER ORE BAGS, 100 lbs each. 15,000 Chicken Gunny Pocket Bags, suitable for Copper Ore, 125 lbs each. For sale in lots, by

REYNOLDS, HOWARD & FORD,
11v8-m 313 and 315 Davis Street, San Francisco

Forest Queen Gold and Silver Mining Company, Grent Mogul District, Amador County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 13th day of June, 1864, an assessment of fifty (50) cents per share was levied upon the Capital stock of said Company, payable immediately in United States Gold Coin, to the Secretary, or to Mr. A. Lukin, Gold Hill, N. T.

Any stock upon which said assessment shall remain unpaid on SATURDAY, the 16th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 1st day of August, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. R. N. VAN. BRUNT, Secretary

Office, No. 706 Montgomery Street, San Francisco. 25-4t

Grosch Consolidated Gold and Silver Mining Company, Storey county. N. T.

Notice is hereby given, that, at a meeting of the Board of Trustees of said Company, held on the 11th day of, June, 1864, an assessment of 20 cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on WEDNESDAY, the 3d day of August, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

CHAS. H. RYDER, Secretary.

Office, No. 4, Court Block, Clay street, San Francisco. 25-4t

Good Return Consolidated Gold and Silver Mining Company, Inyo District, Tulare County Cal.

Notice is hereby given, that nt a meeting of the Board of Trustees of said Company, held on the 14th day of June, 1864, an Assessment, of one dollar per share was levied upon the Capital Stock of said Company, payablo on the 15th day of June, 1864, in United States gold coin, to the Secretary, nt the office of the Company, 728 Montgomery street, San Francisco.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 16th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 30th day of July, 1864, to pay the delinquent Assessment, together with the costs of Advertising and expenses of the sale. By order of the Board of Trustees.

N. G. FRENCH, Secretary.

25-4t Office, 728 Montgomery Street, San Francisco.

John J. Crittenden Gold and Silver Mining Com pany, Reese River District, Lander county. N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 14th day of June, 1864, an assessment of Twenty-five cents per share was levied upon the Capital stock of said Company, payable immediately, in United States gold Coin, to the Secretary, or to S. F. AMBLER, at Austin, N. T.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 3d day of August, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

D. B. FRANCIS, Secretary.

25-4t Office, 509 Clay street, San Francisco.

Aspinwall Gold and Silver Mining Company, Amador District, Lander County N. T.

Notice is hereby given that at a meeting of the Trustees of said Company, held on the 10th day of June, 1864, an assessment of fifty cents (50) per share was levied upon the Capital stock of said Company, payable immediately, in U. S. Gold Coin, to the Secretary, at the office of the Company, 429 Pine street, San Francisco, or to J. E. Bowe, at Amador City, N. T.

Any stock upon which said assessment shall remain unpaid on the 15th day of July, will be advertised as delinquent, and unless payment shall be made before, will be sold on the 3d day of August, A. D. 1864, to pay the said delinquent assessment, together with cost of advertising and expenses of sale.

24-4t JOSEPH HEALY, Secretary.

Southern Belle Gold and Silver Mining Company, Reese River District, Lander county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 9th day of June, 1864, an Assessment of twenty-five cents per share was levied upon the capital stock of said Company, payable on the 10th day of June, 1864, in United States gold coin, to the Secretary, or to R. T. HILL, Superintendent, at Austin, N. T.

Any stock upon which said assessment shall remain unpaid on Saturday, the 9th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 23d day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. W. F. HUGHES, Sec'y.

24-4t Office, No. 6 Mead House, San Francisco.

Porter Gold and Silver Mining Company, Jordan Hill, Butte county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 11th day of June, 1864, an Assessment of fifty cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, or to J. L. PORTER, Superintendent, Yankee Hill, Butte county.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on WEDNESDAY, the 3d day of August, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees,

THOS. C. McCALLAN, Secretary.

24-4t Office, No. 622 Clay street, San Francisco.

Gobernadora Silver Mining Company, San Antonio District, Lower California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 13th day of June, 1864, an Assessment of 70 cents per share was levied upon the Capital Stock of said Company, payable on the 13th day of June, 1864, in United States gold coin to the Secretary, at the office of the Company.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 16th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 1st day of August, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

C. W. HAYDEN, Secretary.

25-4t Office, No. 625 Clay Street, San Francisco.

Egery Mining Company, Inyo District, Tulare County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 13th day of June, 1864, an Assessment of ten cents per share was levied upon the Capital Stock of said Company, payable on the 15th day of June, 1864, in U. S. gold coin, to the Secretary, at the office of the Company, 728 Montgomery Street, San Francisco.

Any stock upon which said Assessment shall remain unpaid on the 16th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 30th day of July, 1864, to pay the delinquent Assessment, together with the costs of Advertising and expenses of sale. By order of the Board of Trustees. N. G. FRENCH, Secretary.

25-4t Office, 728 Montgomery street, San Francisco.

Astor Ledge and Company, Big Creek District, Lander county, Nevada Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 11th day of May, 1864, an Assessment of fifty cents per share was levied upon the capital stock of said Company, payable immediately, to the Secretary, at No. 3, Armory Hall, 3d floor, corner of Montgomery and Sacramento streets, San Francisco.

Any stock upon which said assessment shall remain unpaid on the 23d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 4th day of August, 1864, to pay the delinquent assessments, together with costs of advertising and expenses of the sale.

S. PURDY, Secretary.

Office, Armory Hall, corner Montgomery and California streets, San Francisco. 25-4t

Fortune Mining Company, Mineral Springs Distriet, Calaveras County, California.

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 18th day of June, 1864, an assessment of twenty-five cents per share was levied upon the capital stock of said company, payable immediately in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 23d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 3d day of August, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees. THOS. C. McCALLAN, Secretary.

Office, 622 Clay Street, San Francisco. 25-4t

Steamboat Silver Mining Company, Star Distriet, Humboldt Co., Nevada Territory.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 28th day of May, 1864, an assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable immediately, in United States Gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on SATURDAY, the 16th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on TUESDAY, the 2d day of August, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

S. O. PUTMAN, Secretary.

Office, N. E. cor. Jackson & Front streets, up stairs, San Francisco. 25-4t

Copp Gold and Silver Mining Company, Sierra District, Humboldt county, N. T.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 11th day of June, 1864, an assessment of one dollar per share was levied upon the Capital Stock of said company, payable on the 13th day of June, 1864, in United States Gold Coin, to the Secretary, or to Henry Copp, Dan Glen, Humboldt, N. T.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of July, 1864. will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 30th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. E. X. FIELD, Sec'y.

25-4t Office, 509 Clay st., Room, No. 1, San Francisco, Cal.

La Candelaria Mining Company, San Dimas, State of Durango, Mexico.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 13th day of June, 1864, an Assessment of Five Dollars per share was levied upon the assessable stock of said Company, payable immediately in United States Gold Coin, to the Secretary, at the office of the company, No. 623, Montgomery Street, San Francisco, California.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 16th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 5th day of August, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of Sale. By order of the Board of Trustees. GEORGE A. HILL, Secretary.

Office, No. 623, Montgomery Street, San Francisco California. 25-4t

St. Clair Consolidated Mining Company, Smoky Valley District, R. R., N. T.

Notice is hereby given, that at a meeting of the Board of Trustee of said company, held on the 7th day of June, 1864, an assessment of $1 per share was levied upon the Capital Stock of said company, payable immediately, in U. S. Gold Coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 9th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 23d day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees. AUG. KUNAST, Secretary.

24-4t Office, 540 Washington street, San Francisco.

Rhode Island Gold and Silver Mining Company, Keys Mining District, Mono county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of June, 1864, an assessment of twenty-five cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 30th day of July, 1864, to pay said delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

J. W. MYRICK, Secretary.

Office, No. 526 Montgomery street, over Blue Wing Saloon, San Francisco. 24-5t

Heidelberg Gold, Silver & Copper Mining Company, Tomales Pais District, Marin County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 9th day of June, 1864, an assessment, No. 6, of ten cents per share was levied upon the capital stock of said Company, payable immediately, in U. S. Gold Coin, to the Secretary at his office, or to the Superintendent, Mr. H. N. KEAR.

Any stock upon which said assessment shall remain unpaid on SATURDAY, the 9th day of July, 1864, will be advertised on that day as delinquent and unless payment shall be made before, will be sold on the 23d day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

B. ROTHSCHILD, Secretary.

24-4t Office, 522 Montgomery street, San Francisco.

La Marronena Silver Mining Company.—Location of mine, Lower California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of June, 1864, an Assessment of five dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 9th day of July, 1864, will be advertised on that day as delinquent, and, unless payment shall be made before, will be sold on SATURDAY, the 23d day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

GEO. L. FAULKNER, Secretary.

San Francisco, June 10th, 1864. 24-5t

Winona Gold and Silver Mining Company, Moss Lode, San Francisco District, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of June, 1864, an Assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable on the 11th day of June, 1864, in United States gold and silver coin, to the Secretary, No. 11 Government House, City and County of San Francisco.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 9th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 27th day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale.

EDW. QUACKENBUSH, Secretary.

Office, No. 11, Government House, cor. Sansome and Washington streets. 24-4t

Bodie Consolidation Gold and Silver Mining Company, No. 2. Location of Mine, Bodie District, Mono county, California,

Notice is hereby given, that at a meeting of the Trustees of said Company, held on the 10th day of June, A. D., 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable in U. S. gold coin, on the 13th day of July, 1864, to the Secretary, at office, S. W. corner of Clay and Montgomery streets, San Francisco.

Any stock upon which said Assessment shall remain unpaid on the said 13th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 25th day of July to pay the delinquent Assessment, together with costs of advertising and expenses of sale.

24-5t A. L. CHAMBERLIN, Secretary.

White Mountain Consolidated Mining Company.—Location: White Mountain District, Mono county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of the above named Company, held on the 6th day of June, 1864, an Assessment of fifteen (15) cents per share was levied on each and every share of the capital stock of the Company, payable immediately, in U. S. gold coin, to the Secretary, at his office.

Any stock upon which the assessments shall remain unpaid on the 9th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold, on the 20th day of July, 1864, at 1 o'clock P. M., at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco. The costs of advertising and the expenses of the sale will be added to the delinquent assessments. J. F. MILLER, Secretary.

Office, No. 416 Washington street.

San Francisco, June 10, 1864, 24-4t

Baltimore Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held May 30th, 1864, an assessment (No. 2) of twenty-five cents per share was duly levied, payable in U. S. coin, to J. Warren Clark, Secretary, 430 Montgomery street, San Francisco, or to H. J. Hawkins, Treasurer, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 15th day of July, 1864, at the office of the Company, at 2 o'clock P. M., to pay the delinquent assessments and cost of advertising and expenses of sale. By order of the Board of Trustees.

J. WARREN CLARK, Secretary.

Office, No. 430 Montgomery street, No. 5, 3d floor, San Francisco.
San Francisco, June 3, 1864. 23-4t

Gold Rock Gold and Silver Mining Company, Murphy's Camp, Calaveras county, California.

Notice is hereby given that at a Meeting of the Board of Trustees of said Company, held on the 30th day of May, 1864, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable immediately, in United States gold coin, to the Secretary,

Any stock upon which said Assessment shall remain unpaid on Saturday, the 2d day of July, 1864, will be advertised on that day, as delinquent, and unless payment shall be made before, will be sold on FRIDAY, the 22 day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the sale. By order of the Board of Trustees.

EM. FENARD, Secretary.
23-4t Office, 433 Montgomery Street, San Francisco.

Coso Silver Mining Company, Coso District, Tu-lare county, California.

Notice is hereby given, that at a Meeting of the Board of Trustees of said Company, held on the 2d day of June, 1864, an Assessment of one dollar per share was levied upon the Capital Stock of said Company, payable immediately, in United States Gold or Silver Coin, to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday the 2d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 16th day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of sale. By order of the Board of Trustees.

D. W. CHAMBERS, Secretary.
23-4t Office, No. 636 Clay street, San Francisco.

Gertrude Gold and Silver Mining Company, Reese River District, Lander county, Nevada Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 28th day of May, 1864, an Assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable on the 1st day of June, 1864, in United States gold coin, to the Secretary, or to R. T. Hill, Superintendent, at Austin, Nevada Territory.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 2d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 16th day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. F. HUGHES, Secretary.
23-4t No. 305 Montgomery street, San Francisco.

Monarch Gold and Silver Mining Company, Reese River District, Lander County, Nevada Territory.

Notice is hereby given that at a Meeting of the Board of Trustees of said Company, held on the 28th day of May, 1864, an Assessment of 25 cents per Share was levied upon the Capital Stock of said Company, payable on the 1st day of June, 1864, in United States Gold Coin, to the Secretary, or to R. T. Hill, Superintendent, Austin, N. T.

Any Stock upon whieb said Assessment sball remain nnpaid on Saturday, the 2nd day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 16th day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the Sale. By order of the Board of Trustees.

W. F. HUGHES, Secretary.
23-4t Office, No. 305 Montgomery Street, San Francisco.

Siskiyou Lion Mining Company, Siskiyou Coun-ty, California.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 26th day of May 1864, an Assessment of Fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, to the Secretary, in U. S. Gold Coin.

Any stock upon which assessment shall remain unpaid on Friday, June 24th, 1864, will be advertised on Saturday, June 25th, 1864, as delinquent, nd unless payment shall be made before, will be sold on Tuesday, July 12th, 1864, at 12 o'clock M., to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

JAS. C. NORRIS, Secretary.
Office, No. 430 Jackson street.
San Francisco, May 27th, 1864. 22-4t

Orinoco Gold & Silver Mining Company,
Carroll Gold & Silver Mining Company,
Brooklyn Gold & Silver Mining Company,
Lapland Gold & Silver Mining Company,
Victoria Gold & Silver Mining Company,
Mohawk Gold & Silver Mining Company, Reese River District, Lander County, Nevada Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Companies, held on the 28th day of May, 1864, an Assessment of 50 cents per share was levied upon the capital stock of each of said Companies, payable on the 30th day of May, 1864, in U. S. gold coin, to the Secretary, or to Joshua Malloy, Superintendent at the mine.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 2d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 16th day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees,

WM. G. WENDELL, Secretary.
Office, 240 Montgomery Stroet, San Francisco. 23-4t

Henry and Barnard Consolidated Gold, Silver and Copper Mining Company, Arizona Territory.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 2nd day of June, 1864, an Assessment of Twenty (20) cents per share was levied upon the Capital Stock of said Company, payable on the 3d day of June, 1864, in United States Gold Coin, to the Secretary, at his office.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 2nd day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 18th day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the Sale.

On all Certificates of Stock advertised for sale as delinquent, the holders will be charged by the share to pay expenses.

A discount of three per cent. will be deducted on all assessments paid on or before the 11th day of June. By order of the Board of Trustees. I. M. BLOOD, President.

GEO. W. GILDERSLEEVE, Secretary. (23-4t)
Office, 302 Montgomery St., third floor, room 5, San Francisco.

Peaslee & Sparks Gold and Silver Mining Com-pany, Reese River District, Lander county, Nevada Territory.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 28th day of May, 1864, an assessment of twenty-five cents per share was levied upon the Capital Stock of said Company, payable on the 1st day of June, 1864, in United States gold coin, to the Secretary, or to R. T. Hill, Superintendent, Austin, Nevada Territory.

Any Stock upon which said assessment shall remain unpaid on Saturday, the 2d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 16th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. F. HUGHES, Secretary.
23-4t Office, No. 305 Montgomery street, San Francisco.

Lady Adams Gold and Silver Mining Company, Reese River District, Lander county, Nevada Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 28th day of May, 1864, an Assessment of 20 cents per share was levied upon the Capital Stock of said Company, payable on the 1st day of June, 1864, in United States gold coin, to the Secretary, or to R. T. Hill, Superintendent, Austin, Nevada Territory.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 2d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on SATURDAY, the 16th day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. F. HUGHES, Secretary.
23-4t Office, No. 305 Montgomery street, San Francisco.

Meder Gold and Silver Mining Company, Santa Cruz County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of June, 1864, an Assessment of fifteen (15) cents per share was levied upon the Capital Stock of said Company, payable immediately, in United States Gold Coin, to the Secretary, at the Office of the Company, No. 537 Washington Street.

Any Stock upon which said assessment shall remain unpaid on Saturday the 9th day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 25th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

MILO CALKIN, Secretary.
23-5t Office, No. 537 Washington street, San Francisco.

Bine Jacket Gold and Silver Mining Company, Devils Gate District, Lyon County, Nevada Territory.

Notice is hereby given, that at a Meeting of the Board of Truste e of said Company, held on the 26th day of May, 1864, an Assessment of 25 cents per Share was levied upon the Capital Stock of said Company, payable on the 30th day of May, 1864, in United States Gold Coin, to the Secretary.

Any Stock upon which said Assessment shall remain unpaid on Saturday, the 25 day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 9th day of July, 1864, to pay the delinquent Assessment, together with costs of Advertising and expenses of the Sale. By order of the Board of Trustees.

WM. A. RUST, Secretary.
22-5t Office, 212 California street, San Francisco.

Star of Nevada, Gold and Silver Mining Company, Reese River District, Lander County, N. T.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 31st day of May 1864, an assessment, of 50 cents per share was levied upon the capital stock of said Company, payable on the 1st day of June, 1864, in U S. Gold Coin, to the Secretary, at the Office of the Company, or to Ed. Muller, superintendent at Austin, N. T.

Any Stock upon which said assessment shall remain unpaid on Saturday, the 2nd day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 16th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees. JOHN DUNN, Sec'y.

23-4t Office, 728 Montgomery Street, San Francisco.

Mount Eden Mining Company (Owen Ledge) Gold Hill District, Nevada Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Mount Eden Mining Company, held on the 31st day of May, 1864, an Assessment of fifty cents per share, was levied upon the Capital Stock of said Company, payable on the 4th day of June, 1864, in United States gold coin to the Secretary, or to Frank Morgan, Superintendent at the mine.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 2nd day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 18th day of July, 1864, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

H. B. CONGDON, Secretary.
33-4t Office, No. 620 Washington Street, (Room 3) San Francisco.

San Francisco Gold and Silver Mining Co.
Sierra Madre Gold and Silver Mining Company.
Empire Gold and Silver Mining Company, Rock Spring District, San Bernardino county, California.

Notice is hereby given that at a meeting of the Board of Trustees of said companies, held on the 31st day of May, 1864, an assessment of five cents per share was levied upon the capital stock of each of said Companies, payable on the 2d day of June, 1864, in United States gold coin, to the Secretary.

Any stock upon which said assessments shall remain unpaid on Saturday the 2d day of July, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 16th day of July, 1864, to pay the delinquent assessments, together with costs of advertising, and expenses of the sale. By order of the Board of Trustees.

O. BOWER, Secretary.
23-4t Office, No. 611 Clay street, San Francisco.

Stars and Stripes Copper Mining Company, Rock Creek District, Calaveras county.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 21st day of May, 1864, an assessment of ten cent per share was levied upon the capital stock of said company, payable immediately, in United States Gold Coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on the 21st day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 9th day of July, 1864, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees. J. J. FINDLEY, Secretary.

23-4t Office, on Rock Creek, Calaveras county, California.

Meetings.

North Superior Copper Mining Company, Union Mining District, Plumas County, California.

Notice is hereby given that the Annual Meeting of the Stockholders of the Company, for the election of a Board of Trustees to serve for the ensuing year, and the transaction of any other business that may come before the meeting, will be held at the office of the Company, Room No. 12, 338 Montgomery street, on Monday, the 4th day of July. A. D., 1864 at 11 o'clock, A. M.

T. B. SHERMAN, Secretary.
San Francisco, June 1st, 1864. 24

The Annual Meeting of the Stockholders of the Pio-neer Coso Gold and Silver Mining Company, Coso District, for the election of Trustees and the transaction of other business, will be held on WEDNESDAY, the 6th day of July, 1864, at 3 o'clock P. M., at the office of the Secretary, No. 305 Montgomery street, San Francisco. A punctual attendance is requested.

J. S. LUTY, Secretary.
San Francisco, June 2, 1864. 23-4t

Wyandotte Mining Company, Amador District, N. T. The first ANNUAL MEETING of the Stockholders of the Wyandotte Mining Company, for the election of Trustees, will be held at the office of the company, No. 620, Washington street, on Tuesday, June 28th, 1864, at 7½ P. M.

23-4t W. AUGS. KNAPP, Secretary.

Point Arena Petroleum Mining Company.--The Shareholders of the Point Arena Petroleum Mining Company are hereby notified that the Annual Meeting, for electing officers and other general business, will be held, at the Secretary's office, corner of Sansome and Jackson streets, San Francisco, on the 25th day of June, 1864, at 7 o'clock P. M. The Stock is now in the Secretary's hands, ready to be issued to all parties entitled to the same.

D. S. Cutter, Secretary. J. R. TOBIN, President.
San Francisco, May 20, 1864. 21-4t

For Sale—A Useful Invention.—Editors Press:—I wish to call the attention of mill owners and manufacturers of mining machinery, through your columns, to a device of my invention for feeding the ores or materials to be crushed, in the common stamp mill, so much in use in this country. It is simple and efficient, doing the work with far more regularity than can be done by hand; it costs but little, and requires no more attention than can be given to it by some one about the mill, without neglecting his other duties. As I have not the means to introduce the above, I would like to enter into arrangements with some one to aid me, and share the profits of the invention. I would add, it has stood a working test, under my supervision, and has likewise received the approbation of Scientific men.

Any communications on the subject, addressed to J. C. H., El Dorado, El Dorado Co., Cal., will receive prompt attention. 21-4t

Coughs and Colds.—The sudden changes of our climate are sources of Pulmonary, Bronchial and Asthmatic Affections. Experience having proved that simple remedies often act speedily when taken in the early stages of the disease, recourse should at once be had to "*Brown's Bronchial Troches,*" or lozengers, let the Cold, Cough, or Irritation of the Throat be ever so slight, as by this precaution a more serious attack may be effectually warded off. Public Speakers and Singers will find them effectual for clearing and strengthening the voice. Soldiers should have them, as they can be carried in the pocket and taken as occasion requires.

Agents for California, Redington & Co., San Francisco. 23-1m

A New and Valuable Book.

PROCESS OF SILVER AND GOLD EXTRACTION, BY GUIDO Kustel, Mining Engineer and Metallurgist, former manager of the Ophir Works, &c.; 350 pages octavo illustrated.

This admirable work has met with the highest commendations from the Press and Scientific men, as a clear and able exposition of the science as practised in California and Nevada Territory. It is written for the people in good plain English and finely illustrated.

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A. ROMAN & CO.,
Booksellers, Importers and Publishers,
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How to make your Remittances.—In most of the mining towns, brokers will furnish checks on San Francisco at par, (or at a very slight advance) to those who wish to pay us for subscriptions, advertising, mining blanks, etc. When it is more convenient, money may be remitted by mail at our risk if the parties sending will register their letters. Money sent by mail is seldom lost if properly enclosed. An excellent method is that of opening the layers of a card, placing the coins between the layers and sealing the edges together.

Segregated Crown Point Mining Company, Gold Hill Mining District, Nevada Territory.

NOTICE.—There is delinquent upon the following described stock, on account of Assessment levied on the 13th day of May past, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shares.	Amt.
Benham, D C	9	20	$520
Benham, D C	10	20	520
Benham, D C	73	8	208
Benham, D C	77	12	312
Benham, D C	121	8	208
Clark, Joseph	53	80	2080
Cheeseman, M	22	7	182
Davison, A	55	20	520
Davison, A	56	12	312
Davison, A	57	4	104
Davison, A	58	4	104
Davison, A	97	12	312
Davison, A	98	8	208
Dana, W A	100	8	78
Dana, W A	111	4	104
Dana, W A	112	8	208
Eells, R S	29	1	26
Goddard, E B (estate of)	107	40	1040
Goddard, E B (estate of)	109	20	520
Hentsch & Berton	28	80	2080
Hemme, Augusto	74	8	208
Hemme, Auguste	103	16	416
Jones, J H	19	8	208
Kobler, A	110	40	1040
Lent, Wm M	60	10	260
O'Neale, W T	63	10	260
O'Neale, W T	64	10	260
O'Neale, W T	65	10	260
O'Neale, W T	66	10	260
O'Neale, W T	67	10	260
O'Neale, W T	68	10	260
O'Neale, W T	69	10	260
O'Neale, W T	70	10	260
O'Neale, W T	71	10	260
O'Neale, W T	72	10	260
Parsons, Levi	96	2	52
Parsons, Levi	102	4	104
Parsons, Levi	118	50	1300
Parsons, Levi	122	18	468
Rust, P C	85	8	208
Rust, P C	86	8	208
Rust, P C	87	8	208
Rust, P C	88	4	104
Rust, P C	89	4	104
Rosenfeld	37	5	126
Smith, Benjamin	75	20	520
Street, James	91	20	520
Sutton, E B	101	8	208
Sutton, E B	110	8	208
Sutton, E B	120	4	104

And in accordance with law, and an order of the Board of Trustees, made on the same date, so many shares of each parcel of said stock as may be necessary will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on SATURDAY, the 25th day of June, 1864, at 12 o'clock M., to pay said delinquent assessment thereon, together with cost of advertising and expenses of the sale.

R. N. VAN BRUNT, Secretary.

Office, 706 Montgomery street, San Francisco.

POSTPONEMENT.—The above sale is postponed until TUESDAY, the 5th day of July next, at 12 o'clock M. By order of the Board of Trustees.

25-3t R. N. VAN BRUNT, Secretary.

Morning Call Silver Mining Company, Wheeler and Rogers Ledge No. 2, Big Creek District, Lander county, Nevada Territory.

NOTICE.—There are delinquent upon the following described stock, on account of Assessment levied on the 11th day of May, 1864, the several amounts set opposite the names of the respective shareholders, as follows,

Names.	No. Certif.	No. Shares.	Amt.
Barnes, Geo E	not issued	80	$40 00
Butterfield, Rufus	not issued	100	50 00
Chapman, Wm	not issued	100	50 00
Dale, Benj F	not issued	100	50 00
Fisher, A A	not issued	100	50 00
Forster, Peter B	not issued	100	50 00
Fowler, Geo H	not issued	100	50 00
*Gale & Howe	not issued	100	50 00
Jehsou, Chas F	not issued	100	50 00
Leonard, E A	not issued	100	50 00
Moody, J C	not issued	165	82 50
Reed, Thomas J	not issued	30	15 00
*Richards, D M	not issued	50	25 00
Wilcox, B	not issued		
Wilcocks, B	not issued	100	50 00
Ward Jr, A H	not issued	100	50 00
Wade, Able	not issued	100	50 00

*Assigned, but not transferred.

And in accordance with law, and an order of the Board of Trustees, made on the 11th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on the 29th day of June, 1864, at the hour of 11 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

EDW. QUACKENBUSH, Secretary.

Office, No. 11 Government House, corner Sansome and Washington streets, San Francisco. 24-3t

Silver Creek Mining Company.—Location, Keys District, Mono county, California.

Notice is hereby given, that, at a regular meeting of the Board of Trustees of the above named Company, held on the 30th day of May, 1864, an assessment of fifty (50) cents per share was levied on each and every share of the capital stock of the Company, payable immediately, in U. S. gold coin, to the Secretary, at his office, or to the Superintendent, at the mine.

Any stock upon which the assessments shall remain unpaid on the 25th day of June, 1864, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 13th day of July, 1864, at 1 o'clock P. M., at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. F. MILLER, Secretary.

Office, No. 416 Washington street.

San Francisco, June 10th, 1864, 24-4t

Great Central Tunnel Company.—Location, Virginia District, Nevada Territory.

NOTICE.—There are delinquent upon the following described stock, on account of Assessment levied on the 17th day of May, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

S Greenfield, John Howe, J M Clark and Miles Litchford	325 shs unissued	$216 67	
		cr. 40 00	bal $176 67
John Spajh, John Howe, J M Clark and Miles Litchford	216⅔ shs unissued	250 00	
		cr. 45 00	bal 216 00
Mrs M J Gaylord	650 shs unissued	250 00	
		cr. 40 00	bal 210 00
Thos Sunderland, Administrator of the estate of H O Gaylord	1137½ shs unis'd	455 00	
		cr. 226 25	bal 228 75
W T Priuce,	650 shs unissued	250 00	
		cr. 150 00	bal 110 00
Martin White	650 shs unissued	260 00	
		cr. 90 00	bal 170 00
N Garthwaite and H Garthwaite	162½ shs uniss'd	65 00	
		cr. 22 50	bal 42 50
Geo E Shelton and H Garthwaite	162½ shs uniss'd	65 00	
		cr. 22 50	bal 42 50
Levi Taylor	325 shs unissued	130 00	
		cr. 120 00	bal 10 00
Dr Mineer	487½ shs unissued	195 00	
		cr. 180 00	bal 15 00
M A Bassett	325 shs unissued	130 00	
		cr. 120 00	bal 10 00
G D Keeney	162½ shs unissued	65 00	
		cr. 60 00	bal 6 00
D E Hoff	325 shs unissued	130 00	
		cr. 120 00	bal 10 00
J W Burnham	325 shs unissued	130 00	
		cr. 120 00	bal 10 00

In accordance with the laws of California, and an ordor made by the Board of Trustees on the 17th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Jerome Rice & Co., No. 327 Montgomery street, San Francisco, on WEDNESDAY, the 5th day of July, 1864, at the hour of 12 o'clock M., of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

M. KELSEY, Secretary *pro tem.*

25-2t Office, Clay street, northeast corner Battery.

Joe Douglass Gold and Silver Mining Company, Reese River District, Lander county, N. T.

NOTICE.—There are delinquent upon the following described stock, on account of Assessments levied on the 18th day of May, 1864, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amt
Charles Schmitt	144	5	$2 50
Warner Earl	142	10	5 00
Thomas Long	141	20	10 00
S L McFarland	138	10	5 00
P C Fenner	123	10	5 00
L Elkers	119	10	5 00
Max Livingsten	95	5	2 50
J W Cullen	83	8	4 00
M Barosky	80	20	10 00
J C Kerley	60	5	2 50
Charles Verscheyle	Cert, 121, 122		
	No. Shares, 2, 5		3 50
Levi Foss	Cert, 115, 116		
	No. shares, 2, 5		3 50
M Cassell	Cert, 110, 111, 112		
	No. shares, 15, 10, 10		17 60
S Meoro	Cert, 108, 109		
	No. shares, 25, 10		17 50
H Roman	Cert, 81, 82		
	No. shares, 5, 10		7 50
William A Smith	Cert, 61, 62, 63		
	No. shares, 25, 10, 5		20 00
Shields & Nash	Cert, 56, 57		
	No. shares, 5, 5		6 00
Thomas S Elkers	Cert, 52, 53, 54		
	No. shares, 5, 5, 5		8 00
Fred Baker	Cert, 41, 43, 75, 76		
	No. shares, 25, 10, 7, 2		22 00
J M Douglass	Cert 1, 2, 3, 4, 78, 84		
	No shares 20, 20, 20, 20, 2, 7		53 50
S T Gage	Cert, 34, 35, 37, 38, 39		
	No. shares, 25, 25, 10, 5, 5		35 00
Jas P Wade	Cert, 26, 27		
	No. shares, 50, 25		37 50
J M Massey	Cert, 6, 10, 91, 92, 93, 94		
	No. shares, 50, 5, 25, 10, 10, 5		57 50
J D James—	Cert, 12, 16, 17, 97, 98, 99, 100, 101, 102, 103, 105		
	No. shs, 25, 5, 5, 10, 10, 10, 10, 10, 10, 10, 5		65 00

And in accordance with law, and an order of the Board of Trustees, made on the 18th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold at the Cohh & Sinton's, No. 406 Montgomery street, San Francisco, on the 2d day of July, 1864, at the hour of 11 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

W. F. HUGHES, Secretary.

25-2t Office, Room 6, Mead House, San Francisco.

Nevada Copper Mining Company, Nevada County, California.

NOTICE.—There is delinquent upon the following described stock, on account of Assessment No. 8, levied May 14th, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shares.	Amount.
Byrne, Jas K	80	44	$22 00
Byrne, Jas K	93	50	25 00
Byrne, Jas K	94	50	25 00
Carter, Chas D	15	50	25 00
Carter, Chas D	65	100	50 00
Carter, Chas D	07	50	25 00
Fricot, Jules	30	25	12 50
Hughes, Thos L	79	50	25 00
Hughes, Thos L	80	25	12 50
Paxson, Jos S	61	96	48 00
Paxson, R C (estate of)	71	96	48 00
Shiels, Wm	0	60	25 00
Smith, C W	31	25	12 50
Spencer, W K	49	25	12 50
Spencer, W K	83	50	12 50
Wheaton, Wm R	34	100	50 00

And in accordance with law, and an order of the Board of Trustees, made May 14th, 1864, so many shares of each parcel of said stock as may be necessary will be sold, at the salesroom of Cobh & Sinton, No. 406 Montgomery street, San Francisco, on the 2d day of July, 1864, at 11 o'clock A. M., to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

RICHARD S. CLARK, Secretary.

25-2t Office, No. 610 Merchant street, San Francisco.

Our Circulation.—THE MINING AND SCIENTIFIC PRESS has a large and permanent subscription list, and enjoys a more universal circulation among stockholders and persons directly interested in mining than any other paper on this coast.

Mt. Zion Gold, Silver and Copper Mining Company, Clayton District, Centra Costa County, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of Assessments levied on the 16th day of May, 1864, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Cert	No. Shares.	Amount.
Joel Clayton,	108	10	$5 00
Joel Clayton	109	6	2 50
P Sbirley,	160	100	50 00
P Shirley	161	25	12 50
P Sbirley,	162	25	12 50
P Sbirley,	163	25	12 50
P Shirley,	164	25	12 50
S J Bennett	144	25	12 50
S J Bennett,	145	50	25 00
S J Bennett,	146	100	50 00
T B Storer,	186	50	25 00
T B Storer,	187	50	25 00
T B Storer,	188	25	12 50
T B Storer,	189	25	12 50
T B Storer,	190	20	10 00
T B Storer,	191	20	10 00
S Barrow,	72	20	10 00
S Barrow	73	20	10 00
S Barrow,	75	20	10 00
S Barrow,	76	20	10 00
S Barrow,	138	5	2 50
E J Blanding	142	200	100 00
F P Green,	44	25	12 50
F P Green,	45	25	12 50
F P Green,	77	25	12 50
F P Green,	112	25	12 50
G E Drew,	not issued	3	1 50
J F Williams,	104	25	12 50
G M Dexter,	80	25	12 50
G M Dexter	304	25	12 50
J R Gates,	113	10	5 00
J R Gatee,	137	6	3 00
J R Gates.	293	20	10 00
J R Gates,	217	5	2 50
J R Gates,	247	10	5 00
J R Gates,	255	40	20 00
H H Byrne,	127	25	12 50
H H Byrne,	128	25	12 50
C Morgan,	149	5	2 50
Geo W Morgan,	150	6	2 50
Thos Prince,	221	30	15 00
Thos Prince.	288	50	25 00
C Alison,	262	5	2 50
R Hall.	172	10	6 00
R Hall,	123	5	2 50
R Hall,	130	15	7 50
R Hall,	237	20	10 00
R Hall	257	100	50 00
R Hall,	260	50	25 00
R Hall,	282	10	5 00
R Hall,	281	10	5 00
R Hall,	274	25	12 50
R Hall,	316	2	1 00
R Hall,	327	200	100 00
P Cram,	260	12	6 00
P Cram,	290	75	37 50
W M Huntoon,	317	25	12 50
W M Huntoon,	318		5 00
W A Whittlehorne,	322	180	93 00
R Chandler,	330	5	2 50
R R Sandford,	178	2	1 00
R A Sandford,	179	5	2 10

And in accordance with law, and an order of the Board of Trustees, made on the 16th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the office of the Secretary, on the 6th day of July, 1864, at the hour of 12 o'clock M. of said day, to pay said delinquent Assessment thereon, together with costs of advertising and expenses of the sale.

A. G. WOOD, Secretary.

Office, 240 Montgomery street, southeast corner of Pine street, San Francisco. 25-3t

Oxford Beta Tunnel and Mining Company, Silver Hill, Esmeralda District, Nevada Territory.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 9th day of May, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shares.	Amt.
A Hinds	32	50	$25 00
Gilbert Clements	189	100	50 00
Freeman B Lyle	24	20	10 00
Freeman B Lyle	25	20	10 00
Freeman B Lyle	26	15	7 50
Freeman B Lyle	30	5	2 50
H G Fiske	121	20	10 00
H G Fiske	122	20	10 00
H G Fiske	123	25	12 50
H G Fiske	124	15	7 50
H G Fiske	125	10	5 00
H G Fiske	126	5	2 50
H G Fiske	127	5	2 50
A A Kneedler	130	10	5 00
Geo W Kneedler	131	10	5 00
Richard A Chase	132	10	5 00
Richard A Chase	133	15	7 50
John Abel	137	5	2 50
Wm Smith	138	25	12 50
J R Sproul	139	5	2 50
Chas A Eisio	143	10	5 00
Chas A Eisle	144	10	5 00
Powell Crosby	171	5	2 50
Jas Linforth	188	100	50 00
M Grogan	80	10	5 00
H D Slade	2	15	7 50
E F Dennison	172	5	2 50
Mier & Bauer	107	10	5 00
A P Petit	105	25	12 50

And in accordance with the law and order of the Board of Trustees, made on the 28th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Jerome Rice & Co. No. 327 Montgomery street, San Francisco, on the 6th day of July, 1864, at the hour of 11 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with cost of advertising and expenses of the sale.

25-2t GEO. H. PECK, Secretary.

Office, cor. Sansome and Broadway streets, San Francisco.

Postponements and Alterations.—Secretaries are requested to give notice of postponements, or alterations which they may desire made in their advertisements, at their earliest convenience. New advertisements should be sent in as early as possible.

Dexter Tunnel and Mining Company.—Location, Reese River, Nevada Territory.

NOTICE.—There is delinquent upon the following described stock, on account of an Assessment (No. 2) levied on the 1st day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shs.	Amt.
Betz, H	102, 103, 104, 105, 106, 107, 108, 109, 110, 111 —10 shs ea	100	50 00
Bell, G H	185	25	12 50
Bell, G H	186, 187—20 shs ea	40	20 00
Dexter, C H	72, 73, 74, 75, 76, 77, 78, 79, 80, 81 —10 shs ea	100	50 00
Ebert, Geo	179, 180, 181, 182, 183—10 shs ea	50	25 00
Folz, G	162, 163, 164, 165, 166—10 shs ea	50	25 00
Grubler, J	6	50	25 00
Grubler, J	8	10	5 00
Grubler, J	9	5	2 50
Gerhardt, C	132, 133, 134, 135, 136, 137, 138, 140, 141 —10 shs ea	90	45 00
Gunther, J B	177	10	5 00
Henneman, A	167, 168, 169, 170, 171 —10 shs ea	50	25 00
Kapus, Otto	172, 173, 174, 175, 176 —10 shs ea	50	25 00
Kressel, J	152, 153, 154, 155, 156—10 shs ea	50	25 00
Leisse, H	127, 128, 129, 130, 131—10 shs ea	50	25 00
Lewis, Oscar	189, 190, 191, 192, 193, 194, 195, 696, 197, 198—ten shs ea	100	50 00
Lambert, R	157, 158, 159, 160, 161 —10 shs ea	50	25 00
Morrison, J C Jr	27...not issued	65	32 50
McNulty, C A	28, 29, 30, 32, 33—10 shs ea	50	25 00
McNulty, C A	59	5	2 50
Marshall, H	34	5	2 50
Maguire, Thomas	60	100	50 00
Master, P A	147, 148, 149, 150, 151—10 shs ea	50	25 00
Needen, Wm	178	10	5 00
Grear, D	62, 63, 64, 65, 66, 67, 68, 69, 70, 71 —10 shs ea	100	50 00
Ohmert, F W	112, 113, 114, 115, 116, 117, 118, 119, 120 —10 shs ea	90	45 00
Ploschke, Wm	92, 93, 94, 95, 96, 97, 98, 99, 100, 101 —10 shs ea	100	50 00
Stevens, W H	53	10	5 00
Stevens, W H	54	13	6 50
Shmidt, H	58	5	2 50
Schmidt, H G C	82, 83, 84, 85, 86, 87, 89, 90, 91 —10 shs ea	90	45 00
Schmittburg, H	142, 143, 144, 145, 146 —10 shs ea	50	25 00
Shafer, L	184	10	5 00
Uhrig, C A	16	25	12 50
Uhrig, C A	17	35	17 50
Uhrig, C A	18	5	2 50
Wolleb, E	41	5	2 50
Wolleb, E	42, 43, 44, 45, 46, 47—10 shs ea	60	30 00

And in accordance with law, and an order of the Board of Trustees, made on the 1st day of April, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of John Middleton & Son, No. 400 Montgomery street, San Francisco, on the 11th day of July, 1864, at the hour of 12 o'clock M. of said day, to pay said delinquent assessments thereon, together with costs of advertising and expenses of the sale.

C. H. HORTON, Secretary.

Office, No. 543 Clay street, Golden Era Building, San Francisco. 24-4t

Moscow Gold and Silver Mining Company, Esmeralda District, Nevada Territory.

NOTICE.—A sufficient number of shares of the capital stock of the Moscow Gold and Silver Mining Company, standing on the books of the Company in the names of the following persons, will be sold, at Public Auction, at the salesroom of L. Keller & Co., No. 631 Market street, San Francisco, on FRIDAY, the 15th day of July, 1864, at 11 o'clock A. M., as may be necessary to pay assessments now due by said parties, together with expenses of advertising and sale, if not paid to the Secretary, at his office, previous to sale:

Names.	No. of Certificates.	No. of Assessments. 1 2 3 4	No. Shares.	Amt due,
J P O'Sullivan	20—not iss'd	3 4	20	$40 00
John Ooms	39, 40, 41, 42	3 4	100	100 00
B Dexter	36	3 4	75	75 00
A Faulk	not issued	3 4	4	4 00
J P Soulston	44	3 4	25	25 00
G H Hill	1 and 29	4	110	55 50
J A Deyo	50, 51, 52, 53, 54	4	115	57 50
T Bullen	34	4	15	7 50
Wm Jones	35	4	10	5 00
R Smivers	37	4	25	12 50
J C McDonald	45	4	15	7 50
J G Thompson	46	4	10	5 00

By order of the Board of Trustees.

GEORGE STURTEVANT, Secretary.

(24-4t) Office, No. 608 Montgomery street, San Francisco.

Bay State Gold and Silver Mining Company, Turnback District, Tuolumne county, California.

Notice is hereby given, that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of the Bay State Gold and Silver Mining Company, there will be sold, at Public Auction, to the highest bidder, for cash, in U. S. gold coin, on the 11th day of July, 1864, at 11 o'clock A. M., at the salesroom of L. Keller, No. 537 California street, San Francisco, so many shares of the capital stock of the Company, standing in the names of the following persons, or shareholders, as will be necessary for the payment of Assessment No. 4, of two dollars per share, duly levied thereon March 23d, 1864, by the Board of Trustees, together with the expenses of advertisement and sale, unless said Assessment and accruing charges are previously paid:

Names.	No. Certificates.	No. Shares.	Amt.
John Sedgwick	2, 3, 4—ea 50	150	$300
John Sedgwick	6, 7, 8, 9, 10—ea 20	100	200
John Sedgwick	11, 12, 13, 14, 15—ea 10	50	100
Benj Wilson	22	100	200
Benj Wilson	23	200	400
Benj Wilson	24	20	40
W B Farwell	33	400	bal 700
Philip Myers	48, 52, 53, 54, 55—ea 20	100	200
Philip Myers	57	5	10
Philip Myers	58	15	30
W H Finch	29, 30, 31—ea 100	300	600
W H Finch	32	50	100
W H Finch	33, 34, 35, 36, 37—ea 10	50	bal 50
Jas G Read	1	10	20
Jas G Read	49	25	50
S E Holcomb	16	120	240
S D Jones	25	200	400
S D Jones	43	30	60
S D Jones	44, 45, 46—ea 20	60	120
S D Jones	47	10	20
Geo Weetman	19	20	40
L H Lincoln	20	10	20
Wheeler Martin	41	75	150
Wheeler Martin	58	100	200
Geo W Rose	40	75	bal 100
C H Clark	42	150	300

By order of the Board of Trustees.

J. F. HARRIS, Secretary.

Office, southeast corner Second and Howard streets.

San Francisco, June 8th, 1864. 24-4t

Union Tunnellog Company, Santa Clara, Humboldt County, Nevada Territory.

Notice is hereby given, that in accordance with the laws of Nevada Territory, the by-laws of the Company, and an order duly made, by the Board of Trustees of the above named company, there will be sold at Public Auction, in front of the Company's Office in Santa Clara, on Saturday, July 16th, A. D, 1864, at three o'clock, P. M., so many shares of the Capital Stock of said company, standing in the names of the following shareholders, as will be necessary to pay assessments Nos. 2 and 3 now due thereon, together with costs of advertising and other expenses of sale, unless the same shall have been previously paid.

Names.	No. Cert.	No. Shs.	Amount
Joseph A Benolt	32	10	$10
Geo S Burrage	132	5	3
Geo G Berry	134	10	10
Geo G Berry	135	10	10
Geo G Berry	136	5	5
Geo G Berry	137	5	5
G L Crane	34	10	10
Wm P Deuckla	21	10	10
Julia E Deuckla	22	10	10
L C Dodge	77	30	30
John Downey	84	5	5
M G Elmore	125	10	10
Warner Earl	160	5	2 50
H T Fairbanks	78	10	10
H A Fox	81	50	50
A C Gay	89	5	5
W E Gillaspie	not issued	50	55
E P Green	not issued	30	33
Elias Gill	79	10	10
W H Hoburg	5	10	10
W R Harrison	35	15	15
W R Harrison	40	15	15
W R Harrisoa	42	20	20
W R Harrison	44	20	20
Geo W Harrison	47	25	25
Geo W Harrison	60	5	5
S N Harrison	48	20	20
M W Haviland	75	12	12
M W Haviland	180	111	73
R N Holf	82	10	10
J A Hollister	122	25	25
J A Hollister	124	15	15
O F Johnson	49	25	25
G C Janes	62	10	10
Edward L Levy	14	25	25
Mary Lee	61	5	5
Trescott Lizenby	100	10	10
L H D Lange	139	5	2 50
L H D Lange	174	5	5
M Meador	not issued	15	16 50
G E Morgan	20	10	10
Robt McBeth	27	15	15
Robt McBeth	30	10	10
Robt McBeth	169	9	9
Miller & Kingsley	157	20	20
M H Myrick	101	5	2 50
John H Neale	51	10	10
John H Neale	158	10	10
O B O'Bauon	1	25	25
W D Powell	12	10	10
David Porter	18	50	50
S H Pierce	19	10	10
Allen Peacock	176	10	5
H B Ray	15	5	5
H B Ray	111	10	10
Charlott C Robinson	114	62	62
Phelps Reed	162	10	5
R H Scott	90	25	25
A J Simmons	146	5	5
A J Simmous	147	5	5
E Volpillac	143	20	20
M T Woody	80	10	10
John Waugman	102	10	10
Thos D Williams	113	62	62
Wall & Hawley	151	10	10
Wall & Hawley	152	10	10
Wall & Hawley	155	5	5

N. B.—Payment of the above can be made to H. H. Wood, at No. 627 Clay street, San Francisco, until the 9th day of July, 1864, or at the office of the Company, in Santa Clara until the day of Sale. J. J. KELLOGG, Secretary.

Santa Clara, June 1st, 1864. 24-4t

Ophir of the Colorado Silver Mining Company, El Dorado Canon, Arizona Territory.

NOTICE.—There are delinquent upon the following described stock, on account of Assessment No. 2, of two dollars per share, levied May 16th, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certifs.	No. Shares.	Amt.
B F M Packard	1 and 2	50	$112 50
R P Wilson	23	10	$20
Stephen E Gillis	19	10	20
E S Lathrop	50	5	10
Isaac Davis	69	5	10
M M Johnson	101	10	20
Samuel L Theller	91	20	41
M V B Stacey	16	6	12
M V B Stacey	21	1	2

And in accordance with law, and an order of the Board of Trustees, made on the 16th day of May, 1864, so many shares of each parcel of said stock as may be necessary, will be sold, at Public Auction, at the office of the Company, No. 528 Clay street, San Francisco, Cal., on SATURDAY, July 2d, 1864, at one o'clock P. M., payable in U. S. gold coin, to pay said delinquent assessments, together with cost of advertising and expenses of the sale.

THEO. A. MUDGE, Secretary.

25-3t Office, No. 528 Clay street, San Francisco.

Kelsey Gold and Silver Mining Company, El Dorado County. Office 605 Sacramento street, San Francisco, June 17th, 1864.

The public are cautioned against purchasing stock in this company standing in the names of the following persons, as the same has been sold for delinquent assessments, and canceled upon the books of the company, viz:

Gle Bergson	J. Ford
A Falk	Andrew Wilson
Sophia Steiger	Jane James
A. E. Shannon	Susan Sweetzer
Joseph Whittle	W. Van Housen
C. H. Killey	Henry E. Brooks
L. Blum	R. D. Scofield
B. F. Butler	G. Israel
C. J. West	E. Maltro
F. W. Bach	E. Cleaves
A. de Castilla	John C. Hall
C. P. Williams	B. Slocumb

S. C. GARDNER.

25-4t Secretary Kelsey G. & S. M. Co.

Seely Gold and Silver Mining Company, Big Creek District, Lander county, N. T.

Notice is hereby given that in accordance with the laws of the State of California, and an order duly made by the Board of Trustees of said Company, there will be sold at public auction to the highest bidder for cash, in U. S. Gold Coin, at the office of the Company, No. 1 & 2 Government House, corner of Washington & Sansome streets, San Francisco, on Monday, July 18th, 1864, at 11 o'clock, A. M. so many shares of the Capital stock of said Company standing in the names of the following named shareholders as will be necessary for the payment of Assessment No 2, for 25 cts. per share levied Oct. 1st, 1863. Assessment No. 3 for 25 cents per share, levied Nov. 21st, 1863. Assessment No. 4, for 50 cents per share, levied Feb. 9th, 1864, together with expenses of advertising and all other expenses of sale.

Names.	No. of Shares.	Ass't. 2 of 25c.	Ass't. 3 of 25c.	Ass't 4 of 50
Anderson, J M	5	—	—	$2
Calhoun, A	87½	—	—	43
Capron, John S	25	$6 25	$6 25	12
Condee, G M	10	—	—	5 0
Dwarakowsky, Count	43½	—	10 87	21 75
Gray, John	25	0 25	0 25	12 50
Greely, O F	10	—	—	5 00
Greely, S	5	—	—	2 50
Hulbord, H S	20	—	—	10 00
Hall, J J	100	—	—	50 00
Parker E	120	—	2 50	60 00
Perkins, J L	40	—	—	20 00
Rogers, Wm H	110	(not issued)	—	55 00
Seely, G F	90	22 50	22 50	45 00
Squires, Ogden	170	42 50	42 50	85 00
Turner, Geo R	44	11 00	11 00	22 00
Uhrig, C A	15	3 75	3 75	7 50
Veatch, Dr J A	80	20 00	20 00	40 00
Wells, Cyrus	25	—	6 25	12 5

25-4t HENRY S. BRIGGKS, Secretary.

Olympic Gold and Silver Mining Company, Big Creek District, Lander county, N. T.

Notice is hereby given that in accordance with the laws of the state of California, and an order duly made by the Board of Trustees of said company, there will be sold at public auction, to the highest bidder for cash, in U. S. Gold coin, at the office of the company, No, 1 & 2 Government House, corner of Washington and Sansomo streets, San Francisco, on Monday, July 13th, 1864, at 11 o'clock, A. M., so many shares of the capital stock of said company standing in the names of the following named shareholders as will be necessary for the payment of assessment No. 2, for ten cents per share levied July 25th, 1863. Assessment No. 3, for 20 cents per share, levied Sept. 21st, 1863. Assessment No. 4, for 50 cents per share, levied Nov. 19th, 1863, together with expenses of advertising and all other expenses of sale.

Names.	No. of Shares.	Ass't. No. 2 of 10c	Ass't. No. 3 of 20c	Ass't No. 4 of 50c
Anderson, W N	20	$—	$—	$10 00
Baker, H W	5	—	—	2 50
Greely, O F	25	—	3 00	—
Gray, John	25	—	—	8 00
Pinkham, J F	10	—	2 00	—
Rogers, W H	100	3 50	—	10 00
Sherwood, Benj	10	—	2 00	—
Uhrig, C A	36	—	—	18 00
Vosburg, J N	10	—	—	5 00
Wells, Cyrus	25	—	—	12 50

25-4t M. A. WHEELER, Secretary.

Ophir of the Colorado, No. 1, Gold and Silver Mining Co. Location of claim El Dorado Canon, Territory of Arizona.

NOTICE.—There is delinquent upon the following described stock, on account of assessment levied May 7th, A. D. 1864, of fifteen (15) cts. per share on each and every share of the Capital Stock of said Company, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Cert.	No. Shares.	Amt.
Sheldon Littlefield,	7	50	$4 15
Sheldon Littlefield,	10	20	3 00
Sheldon Littlefield,	12	5	1 50
Sheldon Littlefield,	68	20	3 00
Sheldon Littlefield,	59	20	3 00
Sheldon Littlefield,	73	30	4 50
Sheldon Littlefield,	74	30	4 50
Sheldon Littlefield,	99	10	1 50
M Parker,	40	20	3 00
M Parker,	04	17½	2 52
A Goldthwaite,	76	50	7 50
A Goldthwaite,	77	50	7 50
A Goldthwaite,	79	50	7 50
A Goldthwaite,	80	50	7 50
A Goldthwaite,	81	50	7 50
A Goldthwaite,	82	50	7 50
A Goldthwaite,	83	30	4 50
M V B Stacy,	106	10	1 50
E W Clark,	87	20	3 00

And in accordance with the laws of the State of California and the By-Laws of the Company, so many shares of each parcel of said stock as may be necessary, will be sold at the Office of the Company, No. 410 Montgomery Street, on Saturday the 25th day of June, A. D. 1864, at 12 o'clock M., to pay said delinquent assessment thereon, together with the cost of advertising and expenses of the sale. By order of the Board of Trustees.

24-3t RODNEY CLARK, Secretary.

Tuolumne Gold and Silver Mining Company, Poindexter Lode, San Francisco District, Arizona Territory.

NOTICE.—There is delinquent, upon the following described Stock, on account of Assessment levied on the 10th day of May, 1864, the amount set opposite the name of the following shareholder, to wit:

Name	No. Cert.	No. Shares	Amt.
P J Gifford,	not issued	200	$20 00

And in accordance with law, and an order of the Board of Trustees, made on the 10th day of May, 1864, so many shares of each parcel of said Stock as may be necessary, will be Sold at Jerome Rice & Co's Salesroom, on the 29th day of June, 1864, at the hour of 11 o'clock A. M., of said day, to pay said delinquent Assessment thereon, together with costs of Advertising and expenses of the Sale.

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[Illustrated in the Mining and Scientific Press, April 9th, 1864.]
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